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FOR UPSC CIVIL SERVICE EXAMINATION

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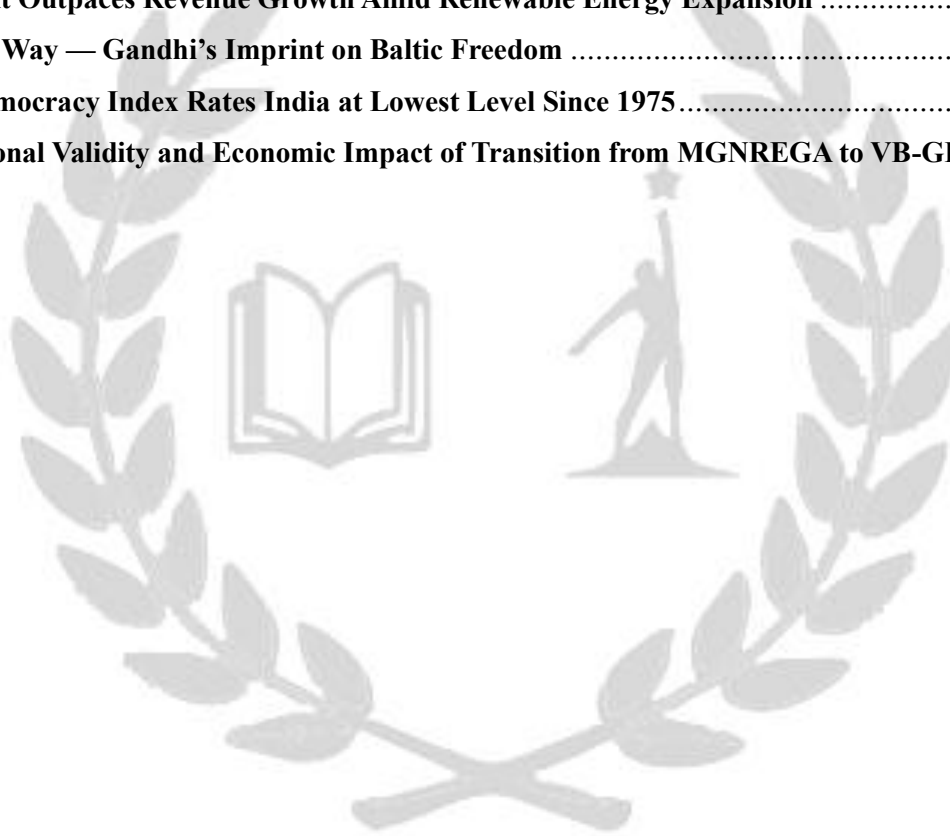
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VIDHVATH IAS ACADEMY



1. India's Q1 FY27 GDP Growth and Sectoral Dynamics

Key Highlights & Summary

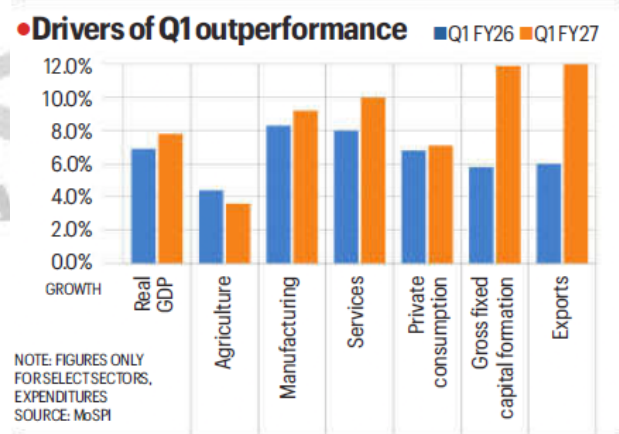
- **Robust GDP Expansion:** India registered a robust year-on-year GDP growth rate of 7.8% in the April–June quarter (Q1 FY27), surpassing the Reserve Bank of India's earlier projection of 7%.
- **Dual Growth Engines:** Sectoral acceleration was primarily propelled by dual growth engines—manufacturing expanded by 9.2% (up from 8.3% YoY) and services (tertiary sector) surged by 10% (up from 8% YoY).
- **Macroeconomic Resilience:** The economy demonstrated structural resilience by absorbing external headwinds, including the West Asia geopolitical conflict, energy price volatility, and global supply chain disruptions.
- **Investment & Demand Trends:** Growth was backed by strong fixed capital formation and steady private consumption, signaling sustained domestic demand alongside an uptick in export activities.
- **Monetary Policy Implications:** Despite high output, persistent high inflation and elevated global crude oil prices have sparked analyst warnings regarding potential monetary policy tightening or interest rate hikes.
- **Agriculture Sector Performance:** While secondary and tertiary sectors recorded double-digit or near-double-digit expansions, the agriculture sector saw a moderation in growth to 3.5% compared to previous cycles.

Essential Definitions

- **Gross Domestic Product (GDP):** The total monetary or market value of all finished goods and services produced within a country's borders in a specific time period.
- **Gross Fixed Capital Formation (GFCF):** A aggregate measuring net capital accumulation, indicating total expenditure on fixed asset additions like infrastructure, machinery, and equipment.
- **Headline Inflation:** The total inflation figure derived from a complete basket of goods, including volatile food and energy products.

Legal and Constitutional Framework

- **Article 112 (Annual Financial Statement):** Outlines the constitutional requirement for laying the annual budget before Parliament, highlighting national fiscal accounting frameworks.
- **Fiscal Responsibility and Budget Management (FRBM) Act, 2003:** Sets institutional guidelines for fiscal discipline, debt targets, and deficit management to ensure long-term macroeconomic stability.
- **Collection of Statistics Act, 2008:** Facilitates statutory data collection by government agencies, empowering the National Statistical Office (NSO) under the Ministry of Statistics and Programme Implementation (MoSPI) to publish official macroeconomic estimates.
- **Reserve Bank of India Act, 1934 (Section 45ZB):** Mandates the flexible inflation targeting framework managed by the Monetary Policy Committee (MPC) to balance growth imperatives with price stability.





Conclusion India's Q1 performance reflects strong macroeconomic fundamentals driven by domestic industrial and service sector capacity. However, sustaining this momentum requires managing external energy risks, maintaining supply-side stability, and ensuring balanced growth across primary sectors like agriculture.

UPSC Relevance

- **GS Paper III (Indian Economy):** Crucial for understanding national income accounting, sectoral contribution, capital formation, inflation dynamics, and GDP measurement metrics.
- **Mains Application:** Serves as high-yield data for questions on industrial policy, economic growth models, manufacturing push (Make in India), and monetary policy challenges.

2. India Rejects Permanent Court of Arbitration Award on Indus Waters Treaty

Key Highlights & Summary

- **Rejection of PCA Ruling:** India firmly rejected an award by the Hague-based Court of Arbitration (CoA) regarding the "abeyance" of the Indus Waters Treaty (IWT), asserting the court has no jurisdiction over India's sovereign decisions.
- **PCA Position on Treaty Status:** The CoA concluded that holding the 1960 treaty in abeyance was impermissible under international law, ruling that obligations regarding hydro-electric projects on Western Rivers remain fully in force.
- **Ministry of External Affairs Stance:** The Ministry of External Affairs (MEA) characterized the CoA as an "illegally constituted body" set up by the World Bank in patent breach of the IWT mechanisms.
- **Non-Recognition and Non-Appearance:** India maintains a consistent stance of non-participation, having never appeared before the parallel arbitration body or recognized its legal standing or pronouncements.
- **Cabinet Decision on Abeyance:** India's decision to hold the treaty in abeyance stems from a Cabinet Committee on Security (CCS) resolution in April 2025 following a terrorist attack in Pahalgam, linking treaty compliance to the cessation of cross-border terrorism.
- **Impact on Hydroelectric Projects:** MEA clarified that the court's decision will have no impact on India's ongoing execution and operation of run-of-the-river hydroelectric projects on the Western Rivers.



Essential Definitions

- **Indus Waters Treaty (1960):** A water-distribution treaty between India and Pakistan brokered by the World Bank, allocating Eastern Rivers (Sutlej, Beas, Ravi) to India and Western Rivers (Indus, Jhelum, Chenab) to Pakistan with limited Indian non-consumptive usage rights.
- **Abeyance:** A state of temporary disuse, suspension, or inactivity applied to legal instruments or treaty obligations.
- **Court of Arbitration (CoA):** An ad hoc arbitral panel constituted under Annexure G of the IWT to resolve legal disputes over treaty interpretation or application.



- **Neutral Expert:** A technical specialist appointed under Annexure F of the IWT to address specific engineering or design differences prior to invoking full arbitration.

Legal and Constitutional Framework

- **Article 253 of the Constitution:** Grants Parliament exclusive power to make laws for the entire territory of India to implement any treaty, agreement, or convention with foreign nations.
- **Article 73 of the Constitution:** Extends the executive power of the Union to matters regarding which Parliament has power to make laws, including international treaties and national security measures.
- **Vienna Convention on the Law of Treaties (VCLT) 1969:** Article 60 recognizes a material breach or severe breach of general international obligations (such as cross-border terrorism) as grounds for invoking suspension or termination of treaty relations.
- **IWT Article IX (Settlement of Differences and Disputes):** Specifies a graded dispute resolution mechanism moving sequentially from the Permanent Indus Commission to a Neutral Expert and finally a Court of Arbitration.

Conclusion India's rejection of the CoA award underscores its sovereign stand against parallel dispute resolution mechanisms that bypass agreed treaty procedures. By linking water-sharing commitments to cross-border security, India asserts that treaty obligations cannot operate in isolation from fundamental national security imperatives.

UPSC Relevance

- **GS Paper II (International Relations):** Essential for analyzing India-Pakistan bilateral relations, transboundary water diplomacy, and the jurisdiction of international legal institutions.
- **Mains Application:** Offers critical points for questions on international law versus sovereign security choices, structured dispute settlement mechanisms, and foreign policy responses to state-sponsored terrorism.

3. Bihar and Jharkhand Sign Historic MoU for Sone River Water Sharing

Key Highlights & Summary

- **Inter-State Water Agreement:** Bihar Chief Minister Samrat Choudhary and Jharkhand Chief Minister Hemant Soren signed a Memorandum of Understanding (MoU) for sharing Sone river water in the presence of Union Home Minister Amit Shah and Jal Shakti Minister C R Patil.
- **Resolution of Long-Pending Dispute:** The pact resolves a long-standing inter-state water dispute in eastern India, serving as a key outcome of cooperative federalism and the "Team Bharat" vision.
- **Agricultural & Drinking Water Benefits:** The agreement secures adequate drinking and irrigation water for rural populations across Bihar districts (Bhojpur, Buxar, Rohtas, Kaimur, Aurangabad, Arwal, Gaya, Patna) and Jharkhand districts (Palamu, Garhwa).
- **Fourth Inter-State Pact in 2026:** This marks the fourth inter-state water agreement concluded this year to optimize regional irrigation, rural development, and drinking water availability.

Bihar, Jharkhand sign MoU for sharing of Sone river water





- **Preceding Regional Settlements:** Earlier agreements in 2026 include the July 7 settlement among Narmada Award beneficiary states (Maharashtra, Gujarat, Rajasthan, MP) and the June 29 Rajasthan-Haryana pact on the Yamuna Water Project.
- **Institutional Coordination:** The agreement highlights the role of the Union Ministry of Home Affairs and the Ministry of Jal Shakti in facilitating consensus-based dispute resolution among riparian states.

Essential Definitions

- **Sone River:** A major right-bank tributary of the Ganges originating near Amarkantak in Madhya Pradesh and flowing through Chhattisgarh, Uttar Pradesh, Jharkhand, and Bihar.
- **Cooperative Federalism:** A constitutional concept where the Centre and States collaborate to resolve shared developmental and natural resource challenges amicably.
- **Riparian Rights:** The legal framework governing the rights of landowners and sovereign entities along the banks of a natural river course to access and use its water.

Legal and Constitutional Framework

- **Article 262 of the Constitution:** Empowers Parliament to enact laws for the adjudication of disputes relating to the use, distribution, or control of waters of inter-state rivers or river valleys.
- **Inter-State River Water Disputes Act, 1956:** Enacted under Article 262 to set up tribunals for resolving water disputes when bilateral negotiations fail.
- **Entry 17 (State List) & Entry 56 (Union List):** Seventh Schedule provisions balancing state control over water supplies and irrigation with central regulation of inter-state rivers in the public interest.
- **Zonal Councils (States Reorganisation Act, 1956):** Statutory bodies chaired by the Union Home Minister that act as platforms for resolving regional inter-state river and resource issues.

Conclusion The Bihar-Jharkhand MoU on Sone river water highlights the effectiveness of negotiated settlements over prolonged litigation. By ensuring equitable resource allocation, it strengthens agricultural sustainability, regional water security, and collaborative governance.

UPSC Relevance

- **GS Paper II (Polity & Governance):** Highly relevant for questions on Inter-State Relations, Cooperative Federalism, Article 262, and statutory mechanisms for conflict resolution.
- **GS Paper I & III (Geography & Economy):** Useful for questions concerning river basin management, inter-state water distribution, irrigation expansion, and rural development strategies.

4. ISRO to Launch Key Earth Observation Satellite EOS-05 via GSLV F17

Key Highlights & Summary

- **Resumption of Space Launches:** ISRO announced the launch of the Earth Observation Satellite EOS-05 via GSLV F17 on September 4 from Sriharikota, ending a seven-month launch hiatus following the PSLV-C62 mission failure in January.
- **Replacement Mission:** EOS-05 (formerly designated as GISAT-1A/GISAT-1) serves as a replacement for the EOS-03 satellite lost in 2021 due to a cryogenic upper stage ignition failure caused by a valve malfunction.



- **Orbit Configuration:** Operating with a 10-year mission life, EOS-05 is India's first earth observation satellite to be placed in a higher Geosynchronous Orbit (GEO), departure from traditional Low Earth Orbit (LEO) placements.
- **Operational Objectives:** The satellite is engineered to capture continuous, high-frequency imaging of large geographic regions to monitor natural disasters, agricultural health, and forestry dynamics.
- **Launch Vehicle Deployment:** The mission utilizes the Geosynchronous Satellite Launch Vehicle (GSLV F17), demonstrating the recovery of ISRO's heavy-lift launch capability following recent mission anomalies.
- **Upcoming Launch Pipeline:** Following EOS-05, ISRO plans the deployment of NVS-03 in November as part of its efforts to restore operational momentum across navigation and earth observation fleets.

Essential Definitions

- **Geosynchronous Earth Orbit (GEO):** An orbit positioned approximately 35,786 km above Earth's equator, matching Earth's rotational period and enabling continuous monitoring of a fixed surface area.
- **Cryogenic Upper Stage:** A rocket stage employing liquefied gases stored at extremely low temperatures (liquid hydrogen and liquid oxygen) to provide high thrust efficiency for placing heavy payloads into high-altitude orbits.
- **Earth Observation Satellite (EOS):** A space-based remote sensing platform equipped with specialized sensors designed to gather physical, chemical, and biological data about Earth systems.



Legal and Constitutional Framework

- **Article 51A(h) of the Constitution:** Establishes a Fundamental Duty to develop scientific temper, humanism, and the spirit of inquiry and reform.
- **Indian Space Policy 2023:** Regulates national space operations, delegating operational space assets to ISRO, commercial engagements to NSIL, and private sector integration to IN-SPACe.
- **Government of India Allocation of Business Rules, 1961:** Governs the Department of Space (DoS), which operates directly under the Prime Minister to oversee strategic space science and satellite technology development.
- **Space Liability Convention (1972):** An international framework ratified by India imposing absolute liability on launching states for damage caused by space objects on the surface of the Earth or to aircraft in flight.

Conclusion The launch of EOS-05 via GSLV F17 marks a critical recovery step for India's space program, restoring high-altitude real-time imaging capacity. Overcoming recent technical anomalies strengthens national disaster monitoring capabilities and reinforces India's technological self-reliance in satellite operations.



UPSC Relevance

- **GS Paper III (Science & Technology):** Essential for topics related to awareness in the field of Space, indigenous technology development, and satellite applications in agriculture and disaster management.
- **Mains Application:** Provides relevant material for questions concerning national space governance policies, space technology applications for governance, and overcoming launch vehicle anomalies.

5. Tata Advanced Systems to Co-Produce US Javelin Missile System in India

Key Highlights & Summary

- **Bilateral Defense Industrial Pact:** Tata Advanced Systems Limited (TASL) signed a Memorandum of Understanding (MoU) with the Javelin Joint Venture (JJV)—a joint entity of US defense giants Raytheon and Lockheed Martin—to co-produce the Javelin missile system in India.
- **In-Country Integration Facility:** The agreement aims to set up a final assembly and integration facility for the Javelin All Up Round (AUR) alongside component production capabilities within India.
- **Global Supply Chain Mechanics:** Lockheed Martin's Alabama facility will manufacture sub-assembly kits, while Raytheon's Arizona plant will produce Guidance Electronics Units (GEUs), both of which will be exported to India for final assembly.
- **Strategic Indo-Pacific Integration:** The collaboration aims to strengthen India's defense industrial base, enhance global supply chain resilience, expand local high-tech jobs, and improve regional operational readiness across the Indo-Pacific region.
- **Resolution of Legacy Deadlocks:** The deal follows a government-to-government agreement to acquire initial Javelin units, overcoming historical friction points from 2010 when negotiations stalled over technology transfer restrictions and US end-use monitoring requirements.
- **Support for Domestic Self-Reliance:** By bringing critical assembly expertise and knowledge transfer to private domestic defense players, the partnership advances India's vision of indigenization under defense sector manufacturing reforms.



Essential Definitions

- **Anti-Tank Guided Missile (ATGM):** A guided missile specifically engineered to defeat heavily armored military vehicles and fortified targets with precision fire.
- **All Up Round (AUR):** A completely assembled, fully integrated missile system delivered ready for immediate operational deployment.
- **Fire-and-Forget Capability:** A missile guidance method where the weapon tracks its target automatically using internal sensors after launch, eliminating the need for ongoing remote guidance by the operator.
- **Command Launch Unit (CLU):** A reusable target-acquisition and fire-control unit attached to the missile launch tube to provide optical and thermal imaging capabilities.



Legal and Constitutional Framework

- **Defence Acquisition Procedure (DAP) 2020:** Governs capital acquisitions in India, prioritizing the "Make in India" initiative through categories like Buy and Make (Indian) and Strategic Partnership models.
- **Foreign Direct Investment (FDI) Policy in Defence:** Permits 74% FDI under the automatic route for defense manufacturing, and up to 100% via the government route for state-of-the-art technology transfer.
- **US Arms Export Control Act (AECA):** US legislation regulating foreign military sales, technology transfers, and mandatory end-use monitoring protocols for defense items.
- **Article 51 of the Constitution:** Encourages international peace and security, underpinning strategic partnership frameworks and bilateral defense cooperation agreements.

Conclusion The co-production agreement between TASL and JJV highlights a significant evolution in India-US defense relations, transitioning from a buyer-seller model to deep industrial collaboration. Establishing local assembly capabilities boosts domestic defense manufacturing ecosystem resilience while providing the armed forces with critical anti-tank capabilities.

UPSC Relevance

- **GS Paper III (Internal Security & Science/Technology):** Vital for topics related to indigenization of technology, growth of domestic defense industrial bases, and technology transfer dynamics.
- **GS Paper II (International Relations):** Serves as concrete material for evaluating India-US strategic partnerships, Indo-Pacific security architecture, and foreign policy trade-offs.

6. Reinterpreting Manusmriti: Moving Beyond Colonial Hermeneutics

Key Highlights & Summary

- **Critique of Colonial Legal Historiography:** Colonial administrators and foreign translators categorized traditional ancient Indian legal treatises under the monolithic umbrella of "Hindu Law," misrepresenting dynamic indigenous jurisprudence through a rigid, Western legal lens.
- **Re-evaluating Verses on Women:** The oft-cited verse *Pita rakshati kaumare...* has historically been translated by colonial scholars to imply women are "unfit for independence," whereas the original Sanskrit terms denote a protective obligation (*raksha*) by family members rather than subjugation.
- **Contextual & Epochal Interpretation:** Ancient jurisprudence was formulated in alignment with the societal realities of its time and was never intended by its authors to be applied as an unchangeable, literal code across all future historical eras.
- **Four Sources of Legal Guidance:** Ancient Indian jurisprudence recognized four distinct sources of *dharma*: *shruti* (divine revelations), *smriti* (remembered traditions), *sadachara* (customary practices of the righteous), and *atmanastushti* (individual conscience or good conscience).
- **Nuances of Classical Languages:** Sanskrit terms possess broad semantic range, requiring specialized textual expertise rather than literal, mechanically translated interpretations by laypersons or foreign commentators.
- **Cultural Legacy vs. Static Law:** Ancient legal texts represent an inherited socio-cultural heritage that reflects historic civilizational stages rather than binding modern statutory codes.

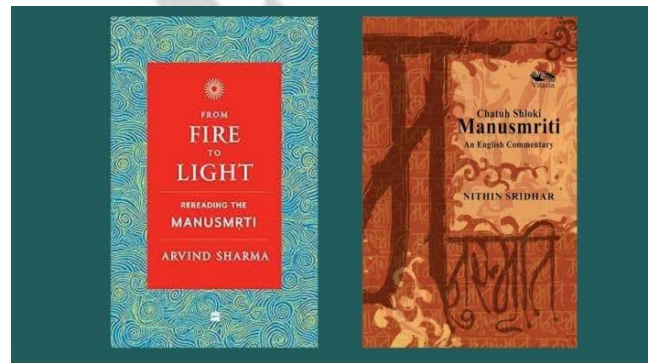


Essential Definitions

- **Shruti:** Canonical texts of divine revelation considered eternal and non-human in origin, encompassing the four Vedas.
- **Smriti:** Traditional texts transmitted through memory by ancient sages, containing socio-legal rules, duties, and institutional frameworks applicable to specific eras.
- **Sadachara:** Customary conduct and moral practices observed by righteous, divinely inspired individuals within a society, functioning as an auxiliary source of law.
- **Atmanastushti:** Personal satisfaction or internal conscience, serving as a ultimate self-reflective guide in legal and moral decision-making.

Legal and Constitutional Framework

- **Article 13 of the Constitution:** Mandates that all pre-constitutional laws, customs, or usages inconsistent with Fundamental Rights are void to the extent of such inconsistency.
- **Article 14 & 15 of the Constitution:** Guarantees equality before the law and prohibits discrimination based on religion, race, caste, sex, or place of birth, overriding historical personal laws.
- **Hindu Succession Act, 1956 (Amended 2005):** Codifies equal coparcenary rights for women, statutorily dismantling patriarchal property norms derived from traditional interpretations.
- **Hindu Marriage Act, 1955:** Overhauls traditional matrimonial laws by codifying monogamy, equal rights to divorce, and legal maintenance mechanisms.



Conclusion Understanding ancient legal texts requires moving away from rigid colonial translations toward a nuanced evaluation of their historical context. While modern democratic governance is anchored strictly in constitutional morality and gender equality, analyzing traditional jurisprudence enriches the understanding of India's evolving legal heritage.

UPSC Relevance

- **GS Paper I (Indian Heritage & Culture, Society):** Important for questions on ancient Indian jurisprudence, historical perspectives on the status of women, and the impact of colonial rule on indigenous institutions.
- **GS Paper II (Polity & Governance):** Provides analytical depth for topics involving the evolution of personal laws, constitutional morality versus traditional customs, and legal reform initiatives.

7. US Strategic Push for Control Over Venezuelan Crude Reserves

Key Highlights & Summary

- **Massive Oil Deal Announcement:** The US announced plans to gain majority control over more than 65 billion barrels of Venezuelan oil—representing 20% of its proven oil reserves—through a public-private partnership aimed at reviving Venezuela's dilapidated energy infrastructure.



- **World's Largest Reserves vs. Output Decline:** Venezuela holds the world's largest proven oil reserves (approximately 300 billion barrels), yet currently produces under 1% of global consumption, dropping from 3.5 million bpd in 1997 to 0.9 million bpd in 2024.
- **Refinery Compatibility Needs:** US interest is driven by crude grade dynamics; US Gulf Coast refineries are designed for "heavy sour" crude (dense, high-sulphur), which Venezuela possesses, unlike domestic US production dominated by "light sweet" oil.
- **Geopolitical & Energy Security Motives:** Gaining access to Venezuelan oil provides a reliable supply source during Persian Gulf supply disruptions (such as crisis around the Strait of Hormuz) while checking Chinese and Russian investments in the Western Hemisphere.
- **Operational and Investment Framework:** Proposed plans involve joint ventures developing 17 oil fields, where private capital and technology will attempt to restore production, projected to require over \$180 billion over 15 years.
- **Domestic and Sovereign Opposition:** Political leaders and opposition figures in Venezuela raise serious legal concerns, questioning the interim administration's authority to grant foreign operational control over sovereign natural resources.



Essential Definitions

- **Heavy Sour Crude:** Petroleum characterized by high density (viscosity) and elevated sulphur content, requiring specialized complex refineries to process into fuel products.
- **Light Sweet Crude:** Low-density petroleum with low sulphur content that is simpler and cheaper to refine into gasoline and diesel.
- **Fungibility in Commodities:** The quality of goods being interchangeable; crude oil is not entirely fungible because refinery setups depend on specific gravity and sulphur grades.

Legal and Constitutional Framework

- **UN Resolution 1803 (Permanent Sovereignty over Natural Resources):** Establishes that the right of peoples and nations to permanent sovereignty over their natural wealth and resources must be exercised in the interest of national development.
- **US International Emergency Economic Powers Act (IEEPA):** Authorizes the US executive branch to regulate international commerce and impose economic sanctions during declared national emergencies.
- **Article 12 of the Venezuelan Constitution:** Declares that mineral and hydrocarbon deposits within national territory belong to the Republic and are assets of public domain, limiting complete private foreign ownership.
- **Energy Policy Act of 2005 (US):** Directs national strategic petroleum reserve policy and domestic refinery integration to safeguard national energy security.

Conclusion The proposed US intervention in Venezuela's energy sector highlights the intersection of resource geology, refinery infrastructure, and international power projection. While access to heavy crude



addresses US industrial needs and geopolitical strategies, political instability and immense capital requirements present major execution hurdles.

UPSC Relevance

- **GS Paper II (International Relations):** Essential for analyzing energy geopolitics, state sovereignty over natural resources, Latin American security dynamics, and foreign policy maneuvers.
- **GS Paper III (Economy & Energy Security):** High value for questions regarding global crude market mechanics, supply chain vulnerabilities, strategic reserves, and global economic sanctions.

8. Centre Notifies Framework for Semicon 2.0 Programme

Key Highlights & Summary

- **Financial Outlay and Scope:** The Union Government notified the operational framework for the Rs 1.27 lakh crore Semicon 2.0 programme, extending financial subsidies beyond fabrication to design, manufacturing equipment, raw materials, and advanced packaging.
- **Six-Pillar Mission Architecture:** Approved by the Cabinet, the mission structures support across six distinct pillars, with at least three pillars dedicated exclusively to domestic semiconductor chip design and intellectual property (IP) creation.
- **Strategic & Critical IP Development:** C-DAC will issue competitive tenders for designing chips used in national critical infrastructure (compute, memory, RF, power, networking, sensors), resulting in joint IP ownership between C-DAC and private firms.
- **Support for Fabless Start-ups:** Eligible start-ups and MSMEs designing commercial chips can receive seed funding up to Rs 15 crore (or 50% of project cost), while larger firms can access royalty-based financing capped at 1.5 times the government assistance.
- **Widened Eligibility via OCI Ownership:** Companies incorporated and headquartered in India are eligible if owned and controlled by Indian citizens or Overseas Citizens of India (OCIs) with significant domestic operational presence.
- **Upstream Supply Chain Subsidies:** The scheme offers 30% capital expenditure support for R&D facilities, silicon wafer production, photomasks, substrates, and specialized gases, alongside declining PLI support (10% to 2%) for equipment manufacturers.



Essential Definitions

- **Fabless Semiconductor Company:** A firm that designs and markets microchips and hardware while outsourcing physical fabrication to external semiconductor foundries.
- **Intellectual Property (IP) Core:** A reusable unit of cell, logic, or integrated circuit layout design that acts as a fundamental building block for microchip architecture.
- **Electronic Design Automation (EDA):** A category of software tools used for designing, simulating, and verifying electronic systems such as integrated circuits and printed circuit boards.

Legal and Constitutional Framework

- **Article 282 of the Constitution:** Authorizes discretionary grants by the Union for public purposes, providing the constitutional basis for scheme outlay disbursements and industrial incentives.



- **National Policy on Electronics 2019 (NPE 2019):** Establishes the overarching framework for positioning India as a global hub for Electronics System Design and Manufacturing (ESDM).
- **Foreign Exchange Management Act (FEMA), 1999:** Regulates corporate ownership structures, equity co-investments, and cross-border tech capital flows involving foreign nationals and OCIs.
- **Micro, Small and Medium Enterprises Development (MSMED) Act, 2006:** Sets statutory frameworks for categorizing and channeling fiscal incentives to tech-focused start-ups and MSMEs.

Conclusion The Semicon 2.0 framework represents a strategic move from low-value assembly to high-value domestic IP creation and fabless design. By integrating upstream supply chains, supporting equipment manufacturing, and leveraging OCI expertise, India aims to build domestic semiconductor self-reliance.

UPSC Relevance

- **GS Paper III (Science & Technology, Economy):** High-yield material for questions on industrial policy, technology transfer, indigenization of critical technologies, and ESDM sector growth.
- **Mains Application:** Provides structured data on domestic supply chain vulnerabilities, public-private IP ownership models, and strategic technology governance.

9. NTPC Profit Outpaces Revenue Growth Amid Renewable Energy Expansion

Key Highlights & Summary

- **Divergence in Growth Metrics:** State-owned NTPC Ltd registered faster profit growth compared to revenue growth over the past three years, coinciding with India's aggressive capacity addition in renewable energy.
- **Fixed Charges Mechanism:** Profitability remains robust because Power Purchase Agreements (PPAs) compensate thermal power generators through fixed capacity charges for maintaining plant availability, regardless of actual power dispatch.
- **Financial Performance Indicators:** In 2025-26, NTPC's total income fell 0.56% to Rs 1,89,798.56 crore, yet Profit After Tax (PAT) grew 15% year-on-year to Rs 27,545.76 crore; earlier in 2023-24, PAT rose 24.6% despite only a 1.79% income rise.
- **Operational Role of Thermal Fleet:** Rising solar and wind generation reduces coal-based electricity generation during peak renewable hours, requiring thermal units to operate at lower capacity utilization while backing up grid stability.
- **Cost Burden on DISCOMs:** Power distribution companies (DISCOMs) face financial challenges as they continue paying fixed capacity charges to thermal plants while simultaneously procuring renewable power to meet demand.
- **Flexibility & MTL Mandate:** The Central Electricity Authority (CEA) outlined a roadmap to reduce Minimum Technical Load (MTL) to 40% by 2030, though industry actors cite operational risks and equipment wear below 55% load.

Essential Definitions

- **Fixed Charges (Capacity Charges):** Contractual payments made by DISCOMs to power generators to cover capital costs, fixed operations, and maintenance expense based on plant availability.
- **Variable Charges (Energy Charges):** Payments made to power producers covering actual fuel and operational costs incurred strictly during active power generation.



- **Minimum Technical Load (MTL):** The lowest stable generation level at which a thermal power plant unit can continuously operate safely without shutting down completely.

Legal and Constitutional Framework

- **Electricity Act, 2003:** Framework governing generation, transmission, distribution, and tariff determination, empowering regulators to structure multi-part tariff systems.
- **Tariff Policy, 2016:** Issued under Section 3 of the Electricity Act, mandating two-part tariff structures (fixed and variable) to balance financial viability for generators with consumer interest.
- **Central Electricity Regulatory Commission (CERC) Regulations:** Sets norms for availability-based tariffs, capacity charge recovery, and operational parameters for central thermal generating stations.
- **Article 297 & Concurrent List Entry 38:** Seventh Schedule provisions granting federal authority over electricity regulation, national grid stability, and energy transition governance.

Conclusion NTPC's financial dynamics highlight the structural realities of India's energy transition. While two-part tariffs safeguard thermal utility solvency while providing essential grid balancing, lowering Minimum Technical Load remains vital to integrating variable renewable energy efficiently without imposing unsustainable fixed cost burdens on DISCOMs.

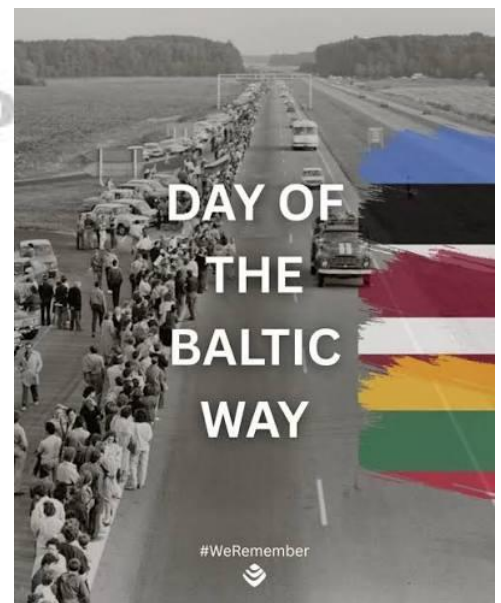
UPSC Relevance

- **GS Paper III (Infrastructure & Energy):** High relevance for questions on energy security, power sector reforms, discom viability, and integration of renewable energy sources.
- **Mains Application:** Provides analytical depth regarding tariff structures, grid balancing mechanisms, and technical challenges associated with thermal power flexibility.

10. The Baltic Way — Gandhi's Imprint on Baltic Freedom

Key Highlights & Summary

- **37th Anniversary & Historical Context:** August 23, 2026, marked the 37th anniversary of the historic 1989 Baltic Way human chain, where 2 million people joined hands across 675 km (Tallinn to Riga to Vilnius) demanding independence from Soviet rule.
- **Protest Against Molotov-Ribbentrop Pact:** Organized on the 50th anniversary of the 1939 secret protocols dividing Eastern Europe between Nazi Germany and the USSR, the demonstration successfully pressured the Soviet Union into acknowledging the protocol in 1991.
- **Gandhian Philosophy as Core Strategy:** Leaders of the Singing Revolution (1986–91) drew directly from Indian freedom movement principles—*ahimsa*, *satyagraha*, non-cooperation, and civil disobedience—educating citizens using broadcasts of Richard Attenborough's *Gandhi* film.
- **Institutional Recognition & Memory:** Inscribed in UNESCO's Memory of the World Register, the movement established civilian-based non-violent defense as a successful model against occupational military forces.





- **Deepening Bilateral Ties (2025–26):** Gandhian cultural connections have matured into robust diplomatic and economic ties; bilateral trade reached \$490.61 million with Lithuania, \$475.66 million with Latvia, and \$219.69 million with Estonia in 2025–26.
- **Historical Soft-Power Connections:** Historical links include Gandhi's Lithuanian-born associate Hermann Kallenbach, traveler Antanas Poška, and memorial statues erected across Baltic nations (Latvia in 2019, Estonia in 2025, and Rusnė, Lithuania).

Essential Definitions

- **Baltic Way:** A peaceful political demonstration on August 23, 1989, forming a continuous human chain across Estonia, Latvia, and Lithuania to protest Soviet occupation.
- **Singing Revolution:** The period between 1986 and 1991 during which the Baltic states utilized national songs and non-violent resistance to protest Soviet governance under *perestroika* and *glasnost*.
- **Molotov-Ribbentrop Pact (1939):** A non-aggression treaty between Nazi Germany and the Soviet Union containing secret protocols that illegally assigned the Baltic states to the Soviet sphere of influence.
- **Civilian-Based Defence:** An intentional defense policy relying on non-cooperation, mass civil resistance, and psychological endurance by a civilian population to deter or defeat foreign occupation.

Legal and Constitutional Framework

- **UN Charter Article 1(2):** Codifies the fundamental right of self-determination of peoples, serving as the international legal basis for restoring Baltic sovereignty.
- **UN Resolution 2625 (Friendly Relations Declaration):** Outlines duty of states to refrain from military occupation, supporting non-violent struggle against unlawful external annexation.
- **Article 51 of the Indian Constitution:** Promotes international peace, security, and peaceful settlement of international disputes, mirroring soft-power outreach through Gandhian diplomacy.
- **UNESCO Convention Concerning the Protection of the World Cultural and Natural Heritage (1972):** Framework underpinning international register listings for historical milestones of human liberty like the Baltic Way.

Conclusion The Baltic Way stands as a monumental operationalization of Gandhian non-violence in modern international relations. By linking moral conscience to political resistance, the Baltic nations achieved statehood, forging enduring cultural, diplomatic, and trade partnerships with India rooted in shared democratic values.

UPSC Relevance

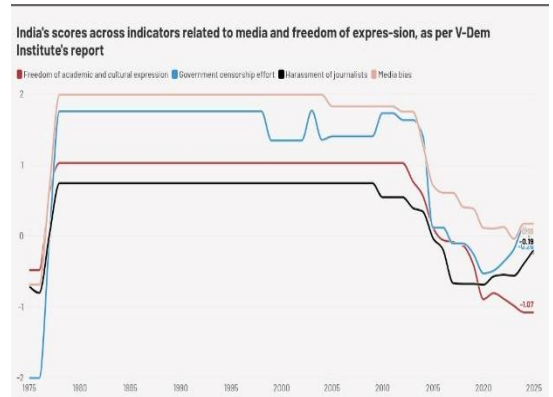
- **GS Paper I (World History & Indian Culture):** High relevance for examining global impacts of the Indian National Movement, Gandhian philosophy, and the collapse of the Soviet Union.
- **GS Paper II (International Relations):** Serves as rich material for questions on India-Baltic bilateral relations, soft power diplomacy, international legal frameworks, and non-violent conflict resolution models.



11. V-Dem Democracy Index Rates India at Lowest Level Since 1975

Key Highlights & Summary

- **Lowest Democratic Score Since 1975:** According to the Gothenburg-based Varieties of Democracy (V-Dem) Institute, India's Electoral Democracy Index score dropped to 0.38 in 2025 (ranking 106th out of 179 countries), marking its lowest score since the 1975 Emergency period (0.39).
- **UN CERD Observations:** The report aligns with concerns raised by the UN Committee on the Elimination of Racial Discrimination (CERD) regarding electoral exclusions of voters—particularly Muslims—during the Special Intensive Revision of electoral rolls.
- **Institutional Autonomy Decline:** V-Dem indicators show sharp multi-decade drops in the autonomy of Election Management Bodies (EMBs), judicial accountability, compliance with court orders, and impartial public administration.
- **Electoral Irregularities & Harassment:** The index documents rising voter irregularities alongside institutional intimidation of opposition parties during electoral cycles.
- **Erosion of Academic & Media Freedom:** Scores reflecting freedom of academic and cultural expression, research autonomy, media bias, government censorship, and harassment of journalists have systematically deteriorated.
- **Autocratization Classification:** The V-Dem report categorizes India as undergoing a gradual process of "electoral autocratization" characterized by the steady dismantling of democratic institutions.



Essential Definitions

- **Varieties of Democracy (V-Dem) Institute:** A Gothenburg-based research institute providing multidimensional quantitative data on democracy, measuring electoral, liberal, participatory, deliberative, and egalitarian dimensions.
- **Electoral Democracy Index (EDI):** An index measuring whether elections are free, fair, competitive, and backed by institutional guarantees like freedom of expression and association.
- **Electoral Autocratization:** A structural transition wherein democratic norms and institutional checks are incrementally weakened while retaining periodic elections.

Legal and Constitutional Framework

- **Article 324 of the Constitution:** Mandates an independent Election Commission of India (ECI) responsible for the superintendence, direction, and control of electoral rolls and conduct of elections.
- **Article 19(1)(a) of the Constitution:** Guarantees freedom of speech and expression, establishing the foundation for press freedom, media independence, and academic autonomy.
- **Article 14 & 15 of the Constitution:** Guarantees equality before law and prohibits state discrimination on grounds of religion, race, caste, sex, or place of birth, ensuring universal voter inclusion.



- **International Convention on the Elimination of All Forms of Racial Discrimination (ICERD):** A UN treaty ratified by India binding state parties to prevent racial and ethnic discrimination in civil, political, and voting rights.

Conclusion The ratings by international indices like V-Dem and observations from UN bodies highlight global concerns regarding domestic institutional health. Strengthening institutional autonomy, protecting press and academic freedoms, and ensuring inclusive electoral verification processes remain essential to maintaining India's democratic credentials.

UPSC Relevance

- **GS Paper II (Polity, Governance, IR):** Crucial for evaluating institutional autonomy of constitutional bodies (ECI, Judiciary), global democratic indices, human rights treaties, and civil liberties.
- **Mains Application:** Offers data points and institutional critique for questions on electoral reforms, judicial independence, freedom of speech, and international perceptions of Indian democracy.

12. Constitutional Validity and Economic Impact of Transition from MGNREGA to VB-GRAM G Act

Key Highlights & Summary

- **SC Re-opens Right to Work Debate:** A three-judge Supreme Court Bench led by the CJI recently probed whether the "Right to Work" should be elevated on par with Article 21 (Right to Life), reigniting Constituent Assembly debates between immediate fundamental enforceability and progressive aspirational directives.
- **Legislative Transition to VB-GRAM G Act:** In December 2025, the Union government replaced the demand-driven MGNREGA with the Viksit Bharat — Guarantee for Rozgar & Ajeevika Mission (Gramin) (VB-GRAM G) Act, which began implementation on July 1.
- **Sharp Contraction in Rural Employment:** Rural employment generation fell by 68% in July and August compared to the five-year average, driven by the dismantling of MGNREGA's demand-driven right-to-work architecture and shifting higher fiscal burden onto States.
- **Wage Delinking and Constitutional Conflict:** Delinking employment guarantee wages from the Minimum Wages Act, 1948 has stagnated rural earnings. Restricting budget allocations and paying below minimum wages conflicts with *Sanjit Roy v. State of Rajasthan (1983)*, which held sub-minimum wages as "forced labor" under Article 23.
- **Violation of Doctrine of Non-Retrogression:** Scholars argue that diluting statutory demand-driven guarantees and enabling area denotifications under the VB-GRAM G Act violates the Doctrine of Non-Retrogression (*Navtej Singh Johar v. UOI*), which bars the State from rolling back established socio-economic rights.





- **Economic Multiplier Effect:** Contrary to the logic of fiscal caps, higher rural wages enhance effective purchasing power and human development, generating positive macroeconomic demand multipliers that support broader economic growth.

Essential Definitions

- **Right to Work:** A socio-economic concept where the State bears a legal or directive duty to ensure gainful employment opportunities for every citizen capable of working.
- **Doctrine of Non-Retrogression:** A constitutional principle stating that once the State secures a certain level of rights or progressive legislation, it cannot enact measures that regress or undo those realized rights.
- **Forced Labor:** Involuntary work extracted under compulsion or economic duress, including employment paid at rates below the statutory minimum wage as recognized under Article 23.

Legal and Constitutional Framework

- **Article 21 of the Constitution:** Fundamental Right to Life and Personal Liberty, expanded by the Judiciary (*Olga Tellis v. BMC, 1985*) to include the Right to Livelihood.
- **Article 23 of the Constitution:** Prohibits traffic in human beings and *begar* (forced labor), forming the legal basis for enforcing minimum wage standards (*Sanjit Roy case*).
- **Article 41 (DPSP):** Mandates that the State shall, within the limits of its economic capacity and development, make effective provision for securing the Right to Work.
- **Articles 39, 42 & 43 (DPSP):** Enjoin the State to secure adequate means of livelihood, equal pay for equal work, just and humane work conditions, and a living wage for all workers.

Conclusion The transition from MGNREGA to the VB-GRAM G Act highlights a structural shift from a demand-driven statutory guarantee toward fiscally capped rural programming. Restoring a legal right to work tied to living wages, social audits, and empowered Panchayati Raj institutions advances constitutional morality while strengthening rural macroeconomic stability.

UPSC Relevance

- **GS Paper II (Polity & Governance):** Crucial for analyzing Fundamental Rights vs DPSPs, judicial interpretation of Article 21/23, welfare legislation evolution, and federal fiscal relations.
- **GS Paper III (Indian Economy & Development):** Highly relevant for questions on rural employment schemes, wage policy, poverty alleviation mechanisms, and demand-side economic growth models.