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21ST JULY TO 26TH JULY 2025

CURRENT AFFAIRS















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01 AGRICULTURAL OUTLOOK 2025-2034

The Organization for Economic Co-operation and Development (OECD) and the Food and Agriculture Organization (FAO) Agricultural Outlook 2025-2034 report, offers a 10-year outlook on global agricultural and fish markets to guide evidence-based policymaking.



GLOBAL MARKET TRENDS ACCORDING TO OECD-FAO AGRICULTURAL OUTLOOK

Cereal Production and Biofuel Demand: Global cereal production is expected to grow at **1.1% annually**, driven largely by **yield increases** (0.9% per year). However, the expansion of harvested area will slow to **0.14%** annually through 2034.

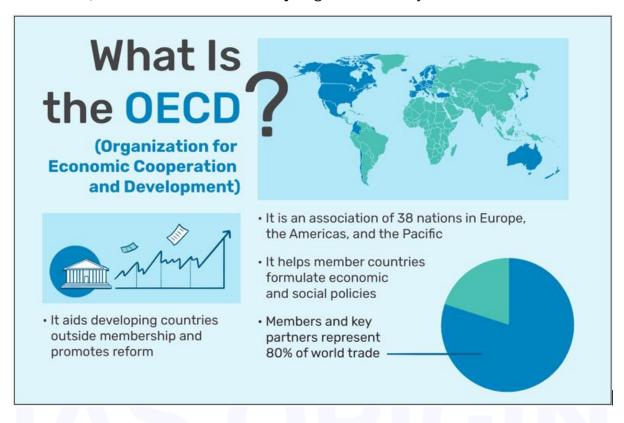
- By 2034, **40% of cereal production** will be consumed directly by humans, while **33%** will be used for **animal feed** and **27%** will be diverted to **biofuels and industrial uses**.
- By 2034, India and Southeast Asia will drive 39% of global cereal consumption growth, while China's share will fall to 13% from 32%, reflecting changing consumption trends.
- **Biofuel demand** is projected to grow at **0.9% annually**, primarily due to increases in countries like **Brazil**, **India**, and **Indonesia**.
- Agricultural and Fish Commodity Growth: Global agricultural and fish
 production is projected to grow by 14% through 2034, primarily driven
 by productivity gains in middle-income nations.

However, this growth will also lead to a **6% increase in agricultural greenhouse gas emissions**.

Rise in Animal Product Consumption: Global per capita calorie
 intake from livestock and fish products is expected to increase by 6% over



- the next decade, driven by growth in **lower-middle-income countries**, where intake is anticipated to rise by **24**% nearly four times the global average.
- This increase will raise daily intake in lower-middle-income countries to 364
 kcal, but low-income countries will remain far behind, with an intake of just 143
 kcal, well below the 300 kcal/day target for a healthy diet.



HOW DOES THE RISING DEMAND FOR BIOFUELS IMPACT GLOBAL FOOD SECURITY?

- Land Use: Growing biofuel crops can reduce land available for food production. To meet the E20 target, India would need 7.1 million hectares (around 3% of its total cropped area), raising serious concerns about land use and food security.
- Pressure on Water and Resources: Biofuel crops require significant water (ethanol production uses 8-12 liters of water per liter of ethanol) and fertilizers, straining resources needed for food farming.
- **Food Inflation:** Biofuels raise food prices by increasing demand for feedstock crops. India's ethanol shift to **maize and rice may divert food supplies**, with rice prices **rising 14.5% in 2023**, hitting poor households hardest.
- Poorer nations face greater risks of food insecurity due to reduced access and affordability.
- **Environmental Trade-offs:** Expansion of biofuel crops can lead to deforestation and biodiversity loss, indirectly affecting food systems.



WHAT IS ORGANIZATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT?

- OECD is an intergovernmental body established in 1961 to promote economic growth and global trade. Headquartered in Paris, France it has 38 member countries, mostly high-income nations with high Human Development Index (HDI).
- While India is not a member, it is a key economic partner.
- The OECD releases several important reports and indices, including Government at a Glance and the Better Life Index.

WHAT IS FOOD AND AGRICULTURE ORGANIZATION (FAO)?

- The FAO is the UN's oldest specialized agency, founded in 1945, with headquarters in Rome. Its mandate is to fight hunger, improve nutrition, and promote sustainable agriculture.
- With 194 member states and the EU, FAO supports countries through research, technical aid, education, and data services.
- It focuses on agriculture, forestry, fisheries, and resource management, but food relief is handled by the World Food Programme.
- Key reports include State of World Fisheries and Aquaculture (SOFIA),
 State of the World's Forests (SOFO), State of Food Security and Nutrition in the World (SOFI), and State of Food and Agriculture (SOFA).





02

BIRTH ANNIVERSARY OF SHAHEED MANGAL PANDEY

The **Prime Minister** paid tribute to the great freedom fighter **Mangal Pandey** on his **birth** anniversary on 19th July.

Mangal Pandey: Hero of India's First War of Independence

EARLY LIFE

- Born on **19th July 1827** in **Nagwa village**, Ballia district, Uttar Pradesh.
- Belonged to a Brahmin family and joined the 34th Bengal Native Infantry of the British East India Company.



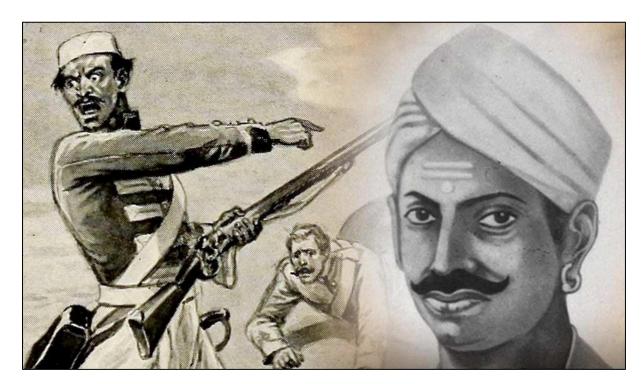
SPARK OF REBELLION

- In 1857, the British introduced the Enfield rifle, with cartridges rumored to be greased with cow and pig fat.
- This hurt the religious sentiments of both Hindu and Muslim soldiers.
- On 29th March 1857, at Barrackpore, Mangal Pandey:
 - o Openly rebelled against British officers.
 - Urged fellow soldiers to revolt.
 - o Fired upon a British sergeant and wounded another.
- He symbolized Indian resistance against British rule, reflected the grievances
 of sepoys and peasants, and is recognized as a key figure in India's First War of
 Independence.



MARTYRDOM

- He was arrested, tried in a military court, and executed on 8th April 1857.
- His act became the **trigger for the Revolt of 1857**, also known as the **First War of Indian Independence**.



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03 VICE-PRESIDENT SUBMITS RESIGNATION

The Vice-President of India, Jagdeep Dhankhar becomes the third **Vice-President** in India's history to resign before completing his term, after **V.V. Giri** and **R. Venkataraman** in accordance with **Article 67(a)** of the Constitution of India.



VICE PRESIDENT OF INDIA

- The Vice President of India is the second-highest constitutional office in the country.
- Acts as the ex-officio Chairperson of the Rajya Sabha (Council of States).
- Discharges the functions of the **President in case of vacancy or absence**.

CONSTITUTIONAL PROVISIONS

Topic	Article of the Constitution
Office of Vice President	Article 63
Election	Article 66
Qualifications	Article 66(3)
Term & Conditions	Article 67
Removal	Article 67(b)
Chairperson of Rajya Sabha	Article 64



ELECTION OF THE VICE PRESIDENT (ARTICLE 66)

Elected by an electoral college consisting of:

- Members of both Houses of Parliament (Lok Sabha + Rajya Sabha).
- Nominated members are also included in contrast to the presidential election.

METHOD OF ELECTION:

- Proportional Representation by Single Transferable Vote (STV).
- Secret ballot conducted by the Election Commission of India.
- No state legislature is involved (unlike presidential election).

ELIGIBILITY CRITERIA (ARTICLE 66(3))

- Must be a citizen of India.
- Must have completed 35 years of age.
- Must be qualified to be elected as a Member of the Rajya Sabha.
- Must not hold any office of profit under the Government of India or any state government.

TERM OF OFFICE (ARTICLE 67)

- 5 years from the date of entering office.
- Eligible for **re-election** any number of times.
- Can continue in office until successor assumes charge.

VACANCY IN OFFICE

Occurs due to:

- Expiry of term.
- Resignation to the President.
- Removal by resolution.
- Death or disqualification.

In case of vacancy, the **election must be held within 6 months**.

POWERS AND FUNCTIONS

Role	Description	
Ex-officio Chairperson of	hairperson of Presides over Rajya Sabha, decides on procedural	
Rajya Sabha	matters	



Acts as President	During vacancy due to death, resignation,	
	impeachment, or illness of the President	
Legislative Role	Can guide discussions in Rajya Sabha but has no	
Legistative note	vote, except casting vote in tie	
No Executive Powers	Not part of Union Executive under Article 53	

REMOVAL OF THE VICE PRESIDENT (ARTICLE 67(B))

- Can be removed by a resolution of the Rajya Sabha passed by a majority of all the then members of the House.
- The resolution must be **agreed to by the Lok Sabha** by a **simple majority**.
- 14 days' notice must be given before moving the resolution.
- No formal impeachment process (unlike the President under Article 61).

JUDICIAL SCRUTINY

- Election disputes are heard only by the Supreme Court under Article 71.
- SC's decision is final and binding.

IMPORTANT FACTS

Fact	Details	
First Vice President	Dr. Sarvepalli Radhakrishnan (1952–1962)	
Current Vice President (as of 2025)	Jagdeep Dhankhar (since August 2022)	
Total Vice Presidents to date	14 (including acting terms)	
Only Vice President to become President	Dr. Sarvepalli Radhakrishnan, Zakir Husain, Shankar Dayal Sharma, Venkaiah Naidu (served only as VP), etc.	
Vice President's Salary	₹4 lakh/month + allowances (2024-25 data)	
Oath Administered by	President of India	
Office of Profit Exception	Vice President is not considered holding an office of profit	



COMPARISON: PRESIDENT VS VICE PRESIDENT

Feature	President	Vice President
Article	52–62	63–67
Electoral College	MPs + MLAs	Only MPs (including nominated)
Acts as	Head of State, Executive authority	Rajya Sabha Chairperson, standby President
Removal	Impeachment (Article 61)	Resolution by Parliament

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04

NATIONAL SPORTS GOVERNANCE BILL, 2025 IN THE LOK SABHA

WHAT IS NATIONAL SPORTS GOVERNANCE BILL, 2025?

The **National Sports Governance Bill, 2025**, introduced in the **Lok Sabha** by the **Ministry of Youth Affairs and Sports**, is a landmark legislative initiative aimed at **reforming, regulating, and modernizing sports governance in India**.

It is the first-ever comprehensive bill to bring all national sports federations (NSFs), including the BCCI, under a unified legal and regulatory framework.



OBJECTIVES OF THE BILL

- Ensure transparency, accountability, and efficiency in sports administration.
- Provide a legal framework for recognition, regulation, and functioning of NSFs.
- Promote athlete welfare, gender inclusion, and safe sporting environments.
- Set up a dispute resolution mechanism for sports matters.
- Bring federations like the Board of Control for Cricket in India (BCCI) under public scrutiny and RTI.

KEY FEATURES OF THE NATIONAL SPORTS GOVERNANCE BILL, 2025

ESTABLISHMENT OF NATIONAL SPORTS BOARD (NSB)

- A statutory apex authority to oversee NSFs.
- Empowered to grant, suspend or withdraw recognition of NSFs.
- Ensures federations comply with the **National Sports Code** and government guidelines.



AGE AND TENURE LIMITS

- Maximum age limit: 70 years (extendable to 75 in certain cases).
- **Tenure cap: 3 terms or 12 years** for top office-bearers (President, Secretary General, Treasurer).

MANDATORY REPRESENTATION

- Minimum 4 women and 2 sportspersons of outstanding merit (SOMs) in every federation's executive body.
- Promotes inclusivity, gender balance, and athlete representation.



INCLUSION UNDER RTI ACT

- All recognized sports federations, including BCCI, declared as public authorities.
- Makes their decisions, expenditures, and selections open to **public scrutiny**.

NATIONAL SPORTS TRIBUNAL

- A quasi-judicial body with powers of a civil court.
- Handles disputes related to:
 - Federation elections
 - Athlete selection



- Misconduct or violation of codes
- Appeals can only be made to the **Supreme Court**, bypassing normal civil courts.

ATHLETE WELFARE & SAFE SPORT CODE

- Mandates NSFs to adopt a Safe Sport Policy, ensuring:
 - o **Zero tolerance** to harassment or abuse.
 - o Grievance redressal mechanisms.
 - Compliance with WADA and POSH Act.

ELECTION SUPERVISION

- Sets up a National Sports Election Panel to oversee federation elections.
- Comprises former Election Commission officials and experts.
- Ensures free, fair, and regular elections in all NSFs.

NATIONAL SPORTS BOARD FUND

- Federations must maintain financial transparency.
- Funds audited by the Comptroller and Auditor General (CAG).
- Encourages accountability in government grants usage.

LEGAL AND CONSTITUTIONAL SIGNIFICANCE

- Brings sports governance under legislative purview for the first time.
- Reduces arbitrariness in selections, funding, and disputes.
- Strengthens federal accountability by balancing autonomy of sports bodies with transparency obligations.
- Supports India's goal of hosting the 2036 Olympic Games.

BUDGETARY ALLOCATION FOR SPORTS (2024–25)

Scheme/Body	Allocation (₹ Crore)	% Change (YoY)
Total Ministry Budget	₹3,442.32	↑ 4.8%
Khelo India Scheme	₹1,200	↑ 14.28%
National Sports Federations (NSFs)	₹325	↑ 10%



Sports Authority of India (SAI)	₹785.52	↑ 3%
National Anti-Doping Agency (NADA)	₹21.80	↑ 15%
National Dope Testing Lab (NDTL)	₹19.50	↑ 12%

ATHLETE PARTICIPATION & GRASSROOTS REACH

Metric		Data (Latest Available)
Khelo India Athletes Registered		33,000+ (as of 2025)
Number of NSFs Recognised by Govt		67
Sports Training Centres (SAI)		273
Number of Coaches under SAI		1,579
Rural Talent Search Covered Districts		650+
Women Participation in Khelo India		~45%

KEY CONCERNS SURROUNDING THE BILL

AGE AND TENURE:

- The Bill raises the upper age limit for administrators to 75 and removes tenure restrictions, ostensibly to help Indian administrators gain seniority in international sports bodies, and promote leadership continuity.
- It raises legitimate concerns about **entrenchment** and **institutional capture**, and demands cautious implementation.

AUTONOMY OF SPORTS BODIES:

- The proposed Sports Regulatory Board could undermine the autonomy of the IOA and NSFs, risking suspension by the IOC for government interference.
- The bill **lacks clarity on the role of State Olympic Associations**, potentially weakening decentralization efforts.



GOVERNMENT OVERREACH:

• Bill **replaces lower courts for sports disputes** and allows final appeals in the Supreme Court of India.

IMPLICATIONS FOR BOARD OF CONTROL FOR CRICKET IN INDIA (BCCI)

- BCCI has historically functioned **outside government control**. This Bill intends to change that by:
 - o Bringing BCCI under the legal umbrella, despite it not being an NSF.
 - o Potentially aligning its governance norms with those of the NSFs.
- This would alter existing BCCI rules on age limits and term restrictions for office-bearers.





05

INDIA AND THE UNITED KINGDOM SIGNED A COMPREHENSIVE ECONOMIC TRADE AGREEMENT

India and the United Kingdom signed a Comprehensive Economic Trade Agreement (CETA) during Prime Minister Narendra Modi's visit to the U.K.



WHAT IS THE COMPREHENSIVE ECONOMIC AND TRADE AGREEMENT (CETA)?

CETA is a free trade agreement (FTA), aimed at promoting:

- Trade liberalization
- Economic cooperation
- Investment flows
- Regulatory cooperation

OBJECTIVES OF CETA

- Eliminate tariffs on most goods (98%) traded between EU and Canada.
- Open markets for services, public procurement, and investments.
- Protect intellectual property rights (IPR) and geographical indications (GI).
- Promote **sustainable development**, labor rights, and environmental protection.
- Establish an Investment Court System (ICS) to resolve disputes.



KEY FEATURES OF CETA

TARIFF ELIMINATION

- Removes **98% of duties** on goods traded between EU and Canada.
- Full tariff elimination on industrial products and agriculture goods like wine, cheese, seafood.

MARKET ACCESS FOR SERVICES

- Canadian firms get non-discriminatory access to EU services markets (telecom, finance, transport).
- Recognition of **professional qualifications** (engineers, architects, etc.).

PUBLIC PROCUREMENT

- Canadian companies can bid for EU government contracts (and vice versa).
- Includes sub-national government contracts (provinces, municipalities).



INVESTMENT PROTECTION

- Introduces Investment Court System (ICS):
 - o Replaces Investor-State Dispute Settlement (ISDS)
 - o Judges are publicly appointed, and proceedings are transparent

INTELLECTUAL PROPERTY RIGHTS (IPR)

- Strong protection for patents, trademarks, and copyrights.
- EU's **Geographical Indications (GIs)** like Champagne, Roquefort, Prosciutto are protected in Canada.



SUSTAINABLE DEVELOPMENT CHAPTERS

- Reaffirms commitments to Paris Agreement and International Labour Organization (ILO) standards.
- Includes labor, environmental, and climate protections.

WHAT'S NOT COVERED?

- Investor-State Dispute Settlement (ISDS) is replaced with ICS.
- Certain sensitive sectors like audiovisual services and public education are excluded.
- Does not mandate harmonization of laws, but encourages mutual cooperation.

BENEFITS OF CETA

Stakeholder	Benefits
Consumers	Lower prices due to reduced tariffs
Exporters	Easier access to new markets (especially SMEs)
Governments	Stronger regulatory cooperation, environmental goals
Investors	Legal certainty via investment court mechanism

CRITICISM OF CETA

Concern	Explanation
Sovereignty Concerns	Some EU countries fear loss of control over regulations and dispute settlement.
ICS Mechanism	Though more transparent, critics see it still favoring corporations over governments.
Environmental Impacts	Fears of undermining local environmental laws and policies.
Ratification Deadlock	Some EU parliaments (e.g. Belgium's Wallonia) oppose full ratification.



ABOUT AGREEMENT

- This marks India's first major FTA in over a decade and the UK's fourth since its exit from the European Union (EU) in 2020.
- India and the UK finalized the trade pact following over three years of negotiations.
- Aim: Making trade easier and more beneficial between India and the United Kingdom.
 - The bilateral trade between the two countries stands at nearly USD 56 billion, with a joint goal to double this figure by 2030.
- The agreement will come into effect once ratified by both countries.
 - While the Union Cabinet in India has approved the deal, it still requires approval from the UK Parliament.

KEY HIGHLIGHTS AND BENEFITS:



FOR INDIA:

- Duty-free access to the UK market for 99% of Indian products: This is a huge win for Indian exports, especially in labor-intensive sectors like textiles, footwear, gems and jeweler, and engineering goods, which previously faced duties of 4% to 16%.
- Easier entry for Indian professionals: The agreement provides assured temporary access to the UK market for Indian professionals like chefs, yoga instructors, and IT specialists.
- Exemption from social security contributions: Under the agreement on the
 Double Contribution Convention, Indian workers temporarily posted in the UK
 can be exempt from paying social security for up to three years, saving them and
 their employers significant money.



- Boost for Manufacturing: Sectors like electronics, pharmaceuticals, chemicals, food processing, and plastics are expected to see a boost in exports.
- Boost for Agriculture and Fisheries: Indian farmers and the fisheries sector will benefit from duty-free access for many agricultural and marine products, allowing them to compete better in the UK market.

FOR THE UK:

- Reduced tariffs on nearly 90% of UK goods entering India: This will make British products more affordable in India.
- **Big cuts on duties for British whisky and gin:** Tariffs on popular British products like whisky and gin will drop significantly, from 150% to 75% immediately and then gradually to 40% within ten years. This gives UK distillers a significant advantage in the large Indian market.
- Lower tariffs on certain UK-made automobiles: Car duties will be reduced, improving the competitiveness of British car manufacturers in India.
- Access to Indian federal government procurement tenders: UK firms can bid for government contracts in India worth large market.
- Benefits for financial and professional services: The agreement includes commitments that benefit UK companies in IT, financial services, and professional services like consulting and engineering.

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06

CORAL COVER IN LAKSHADWEEP SAW A 50% REDUCTION: STUDY

A study revealed that corals in the **Lakshadweep archipelago have declined to half of what they were in 1998.** Over 24 years, coral cover declined from **37.24% to 19.6%**, reflecting a roughly 50% reduction from the 1998 baseline.

WHAT ARE CORALS?

Corals are **marine invertebrates** belonging to the phylum **Cnidaria**. They typically live in **compact colonies of many identical individual polyps**. These tiny polyps secrete calcium carbonate to form a hard skeleton, which over time builds up to form **coral reefs**.

- They are **sessile animals** (non-moving).
- Live in **symbiotic relationship** with **zoo**xanthellae (algae), which provide food through photosynthesis.

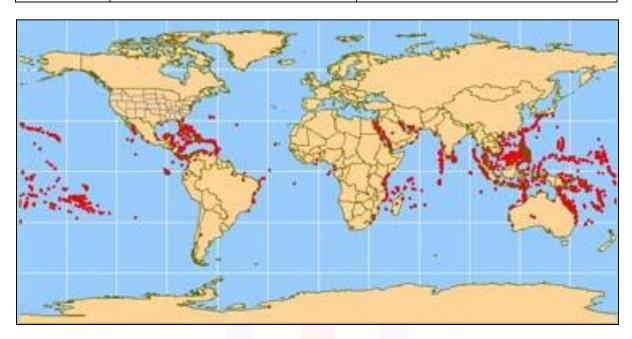


EXAMPLES OF CORALS:

Туре	Example	Description
Hard corals	Acropora, Porites	Build calcium carbonate skeletons (reef-building corals)
Soft corals	Sarcophyton, Sinularia	Do not build reefs, flexible bodies



Notable Great Barrier Reef (Australia),
reefs Gulf of Mannar (India) Biodiversity hotspots



WHAT IS CORAL BLEACHING?

Coral bleaching is a phenomenon where **corals lose their vibrant colors** and turn white due to **expulsion or death of symbiotic algae (zooxanthellae)** from coral tissue.

Without zooxanthellae, corals lose a major energy source and are prone to disease and death.





CAUSES OF CORAL BLEACHING:

Factor	Explanation	
Rising sea temperatures	Even a 1–2°C increase can stress corals	
Ocean acidification	Increased CO ₂ lowers pH, dissolving calcium carbonate	
Pollution	Chemical run-off, oil spills, and sewage harm coral health	
Coastal development	Sediment and construction disturb coral habitats	
Storms and cyclones	Physical damage from strong waves	
Disease outbreaks	Caused by bacteria or fungi in warm, stressed environments	
Excess sunlight (UV radiation)	High solar irradiance damages photosynthetic systems	

INDIAN CONTEXT:

- India has coral reefs in:
 - Gulf of Kutch
 - Gulf of Mannar
 - Lakshadweep
 - Andaman & Nicobar Islands
- Gulf of Mannar Biosphere Reserve is India's first marine biosphere reserve.
- According to Zoological Survey of India (ZSI):
 - ~ 200 species of hard corals in Indian waters.

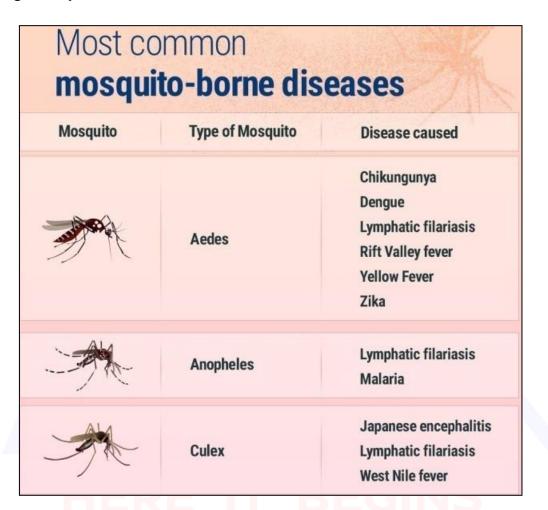
CAN CORALS RECOVER FROM BLEACHING?

- Corals can recover from bleaching over time, but **only if temperatures drop and conditions return to normal.**
- When this happens, the **algae returns** and the corals gradually regain their health.



07 CHIKUNGUNYA

The World Health Organization (WHO) has issued a warning about a **potential global chikungunya epidemic**, noting alarming similarities to a major 2004–2005 outbreak and urged early action.

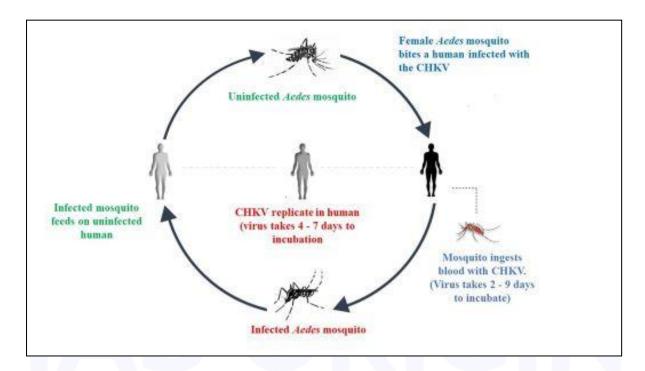


CHIKUNGUNYA

- Chikungunya is a mosquito-borne viral disease caused by the **chikungunya virus (CHIKV),** an RNA virus from the **alphavirus genus**.
- **Symptoms:** It causes fever and severe joint pain, which is often debilitating. In some cases, it can be deadly.
 - The symptoms of chikungunya are similar to those of dengue fever and
 Zika virus disease, making it difficult to diagnose.
- It is **transmitted** to humans by the bites of infected female mosquitoes, most commonly **Aedes aegypti and Aedes albopictus mosquitoes**.
 - The latter, which is known as the tiger mosquito, is venturing farther north as the world warms because of human-driven climate change.



- Outbreaks: CHIKV was first identified in the United Republic of Tanzania in 1952 and subsequently in other countries in Africa and Asia.
- As of 2025, major outbreaks have been reported in Reunion, Mayotte, and Mauritius, with the virus spreading to Madagascar, Somalia, Kenya, and parts of South Asia. Imported cases have also appeared in Europe, with local transmission in France and suspected cases in Italy.
- **Treatment**: Symptoms can be managed but there is no specific antiviral treatment.



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08 BAMBUSA TULDA

Indian Institute of Technology Guwahati Researchers have developed an eco-friendly composite material made of **'Bambusa tulda'**, a fast-growing bamboo species in Northeast India, combined with biodegradable polymers.



ABOUT BAMBUSA TULDA

- Commonly known as Bengal Bamboo, Indian Timber Bamboo, or Spineless Indian Bamboo.
- It is a fast-growing, medium to large-sized, tropical clumping bamboo native to the Indian subcontinent, Southeast Asia (Indochina, Tibet, Yunnan).
- It is **monocarpic** (flowering once then dying) with an intermits interval typically of 15–60 years.
- Highly valued for its tensile strength and extensively used in paper pulp industry, construction, fencing, and various tools.



09

CENTRE BLOCKS 25 OTT PLATFORMS OVER OBSCENE CONTENT

The Ministry of Information and Broadcasting has directed the blocking of websites and apps of at least 25 OTT platforms for allegedly providing obscene and vulgar content.



WHAT IS OBSCENE CONTENT?

Obscene content refers to any material (such as text, images, audio, video, etc.) that:

- Offends public decency or morality,
- Has a tendency to deprave or corrupt those likely to view it,
- Is **sexually explicit**, vulgar, or lewd in nature, and
- Is considered socially unacceptable or legally prohibited.

LEGAL DEFINITION IN INDIA:

SECTION 292 OF THE INDIAN PENAL CODE (IPC):

It defines "obscenity" and makes the sale, distribution, public exhibition, or circulation of obscene materials a punishable offence.

Obscene material includes anything that:

- Is lascivious (sexually suggestive),
- Appeals to prurient interests,
- Tends to deprave and corrupt the audience.

Punishment: Up to 2 years imprisonment and/or fine (for first offence); up to 5 years for subsequent offences.



INFORMATION TECHNOLOGY ACT, 2000 (SECTION 67):

- Publishing, transmitting, or causing transmission of obscene material in electronic form is punishable.
- Covers digital content: websites, social media, messaging platforms, etc.

Punishment:

- First conviction: 3 years jail + ₹5 lakh fine.
- Second/subsequent: 5 years + ₹10 lakhs fine.

JUDICIAL PRECEDENTS:

AVEEK SARKAR V. STATE OF WEST BENGAL (2014):

- SC laid down the "community standards test" rather than a narrow Victorian morality test.
- Held: Nudity is not always obscene; context matters (e.g., nudity in art or protest).

RANJIT D. UDESHI V. STATE OF MAHARASHTRA (1965):

- Landmark case where the court applied the Hicklin Test from English law.
- Book "Lady Chatterley's Lover" banned for obscenity under IPC.



FACTORS CAUSING RISE IN OBSCENITY

- Rapid Growth of Digital Platforms: The proliferation of OTTs, social media, and video-sharing sites has enabled easy access and dissemination of objectionable content.
- Lack of Pre-Screening on OTT Platforms: Unlike films, OTT content is not subject to prior certification, allowing creators to bypass traditional censorship.



- Inadequate Content Regulation Mechanisms: Weak enforcement in selfregulatory frameworks result in unchecked publication of obscene material.
- Anonymity and Encryption: Users often exploit encrypted apps and anonymous browsing tools to share and consume explicit content, escaping legal scrutiny.

IMPLICATIONS OF RISING OBSCENITY IN INDIA

- Impact on Social Morality: The growing presence of obscene content in digital media influences public morality, especially among impressionable audiences such as children and young adults.
- **Cybercrime and Exploitation:** Increased obscenity online fuel exploitation, including cyberbullying, harassment, and trafficking.
- Challenge to Regulatory Mechanisms: Despite the IT Rules, enforcement remains a challenge due to technological evasions (VPNs, mirror sites).
 - Balancing freedom of expression with public decency continues to be contentious.

WAY AHEAD

- Strengthening Implementation: Regular monitoring and swift enforcement of IT Rules are essential.
- Promoting Digital Literacy: Empower users, especially youth, to responsibly engage with digital content.
- **Platform Accountability:** OTTs must adopt content rating systems, age-gating, and pre-screening mechanisms.
- **Judicial Oversight:** Ensure legal actions align with constitutional rights and due process to prevent misuse.



10 U.S. TO PULL OUT OF UNESCO

The United States has decided to withdraw from the UN cultural and education agency UNESCO.

WHAT IS UNESCO?

• Full Form: United Nations Educational, Scientific and Cultural Organization

• Founded: 16 November 1945

• **Headquarters:** Paris, France

• Members: 194 Member States + 12 Associate Members (As of 2024)



MANDATE:

UNESCO promotes international collaboration in:

- Education
- Science
- Culture
- Communication & Information

CORE OBJECTIVES:

- Foster peace and security through collaboration
- Promote universal respect for justice, human rights, and fundamental freedoms
- Safeguard the world's cultural and natural heritage (World Heritage Sites)
- Promote scientific research and freedom of expression



WHY THE USA LEFT UNESCO?

FIRST EXIT: 1984 - RONALD REAGAN ERA

- Reason: Allegations of pro-Soviet, anti-Western bias and mismanagement
- Concern: Politicization of science, inefficiency, budgetary irregularities
- Impact: USA withdrew funding (was the largest donor); returned in 2003 under George W. Bush

SECOND EXIT: 2017 – TRUMP ADMINISTRATION

- Reason:
 - o Anti-Israel Bias: UNESCO recognized Palestine as a full member in 2011
 - Historical Site Disputes: UNESCO passed resolutions critical of Israel's actions in Jerusalem
 - Financial Issues: US stopped funding after 2011 but remained a member till 2017

REJOINING: IN JULY 2023, THE USA REJOINED UNESCO, CITING:

- The need to counter Chinese influence
- Importance of UNESCO's work in **AI regulation, education, and digital** governance





INDIA AND UNESCO:

INDIA'S MEMBERSHIP:

Founding member since 1946

KEY AREAS OF COLLABORATION:

- Promotion of education (EFA, SDG-4 goals)
- Preservation of cultural heritage and world heritage sites
- Science and technology for sustainable development
- Disaster risk reduction, climate resilience
- Ethics of AI and digital inclusion

UNESCO WORLD HERITAGE SITES IN INDIA:

- Total (As of 2024): 42 Sites
 - o 34 Cultural
 - 7 Natural
 - 1 Mixed (Khangchendzonga NP)

RECENT ADDITIONS:

- Santiniketan (2023)
- Sacred Ensembles of Hoysala (2023)

UNESCO CHAIRS IN INDIA:

INDIA HOSTS 11 UNESCO CHAIRS, IN FIELDS LIKE:

- Sustainable development
- Teacher education
- Peace, human rights, and democracy

KEY INDIAN PROGRAMS ASSOCIATED WITH UNESCO:

- **Project Mausam** Reviving ancient maritime routes
- International Literacy Day initiatives
- Man, and the Biosphere (MAB) Programme Several Indian biosphere reserves are part of it



11 SUICIDES CASES AMONG STUDENT

Recently, the Union Minister of State for Education presented in response to a **written question** in Parliament, highlighting student suicides in India.



STUDENTS SUICICE IN INDIA

- According to the NCRB's Accidental Deaths and Suicides in India (ADSI)
 Report, 7.6% of total suicides in 2022 were by students, 2,248 student suicides were directly attributed to exam failure.
 - o It marks a slight decline from 8.0% in 2021 and 8.2% in 2020.

FACTORS RESPONSIBLE FOR STUDENT SUICIDE

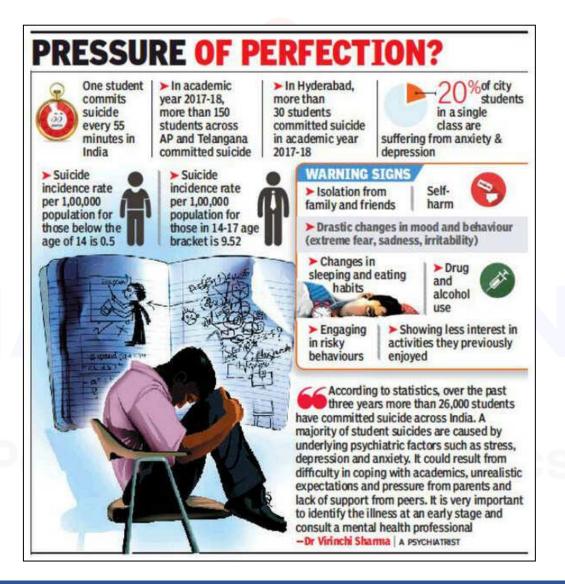
- Individual vulnerabilities: Low self-esteem, impulsivity, trauma histories, history of physical or sexual abuse, and learning and intellectual disability.
- Family Pressures: Over-anxious and over-ambitious parents, dysfunctional family, criticisms, comparisons with peers and lack of support in the family, alcoholism, violence, psychological and economic problems in the family increases suicidal risk.
- **Systemic flaws:** One-point evaluation, media hype around results, and lack of career guidance.



Institutional stressors: Pressure on teachers and students to achieve 100% pass rates.

CASE STUDY: KOTA

- India's obsession with competitive entrance exams has led to the rise of coaching hubs like Kota, Rajasthan, where over 200,000 students enroll annually.
- The intense study schedules, isolation, and lack of recreational outlets have contributed to 29 suicides in Kota alone in 2023.



POLICY INITIATIVES AND MENTAL HEALTH INTERVENTIONS

- **Tele-MANAS Programme:** A national tele-mental health helpline (dial 14416), with over 1.36 million calls handled across 42 centers in 31 states & UTs.
- **District Mental Health Programme (DMHP):** Offers suicide prevention services and life skills training in schools.



- National Suicide Prevention Strategy (NSPS): Aims to reduce suicide rates by 10% by 2030 through media sensitization, healthcare strengthening, and limiting access to lethal means.
- **Manodarpan Programme:** A flagship initiative by the Ministry of Education offering **psychological support** through helplines and live sessions.
 - o It has reached lakhs of students across the country.
- Anti-Drug Campaigns: Recognizing addiction as a rising issue among youth, the Centre has intensified outreach efforts alongside mental health support.
- **UGC Advisories:** Urges higher education institutions to prioritize physical fitness, emotional well-being, and student welfare.
- Stress Management Workshops: Institutions like IIT-Madras, IIT-Delhi, and IIT-Guwahati have begun conducting resilience-building sessions under the Malaviya Mission Teacher Training Programme.
- Supreme Court's Intervention (2025): Declared a 'suicide epidemic' among students and recommended flexible curricula, continuous assessment, and campus mental health support.

LOOKING AHEAD

- The Ministry of Education is drafting legislation to establish the Higher Education Commission of India (HECI) a unified regulatory body aimed at improving governance and transparency in higher education.
 - It aligns with the National Education Policy (NEP) 2020, which advocates for a 'light but tight' regulatory framework.
 - Currently, higher education oversight is fragmented:
 - UGC: Non-technical education
 - AICTE: Technical institutions
 - NCTE: Teacher education
- HECI aims to integrate these functions under a single regulator, building on a 2018 draft bill that proposed repealing the UGC Act.



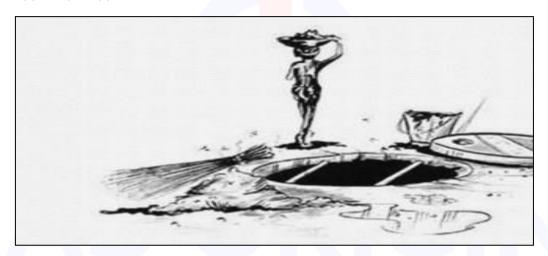
12

MANUAL SCAVENGING AND SEWER DEATHS IN INDIA

A recent Social Audit (2022–23) by the Ministry of Social Justice and Empowerment revealed that over **90**% of sewer deaths occurred without safety gear or personalized protective equipment (PPE) kits.

WHAT IS MANUAL SCAVENGING?

- Manual scavenging refers to the practice of manually cleaning, carrying, and disposing of human excreta from dry latrines, open drains, sewers, and septic tanks.
- It is a hazardous and degrading occupation that primarily affects marginalized communities.



WHY MANUAL SCAVENGING CONTINUES TO EXIST IN INDIA?

- Lack of Alternatives: Limited access to education and job opportunities keeps people in manual scavenging.
- Caste System: Deep-seated caste-based discrimination traps many in this occupation.
- **Weak Law Enforcement:** Inadequate implementation of anti-manual scavenging laws.
- **Inadequate Sanitary Infrastructure:** Lack of modern sanitation systems necessitates manual cleaning.
 - Urban Local Bodies (ULBs) often lack trained personnel, mechanized equipment, and funds to modernize sanitation infrastructure.
- **Economic Factors:** Cheap labor costs make manual scavenging financially attractive.



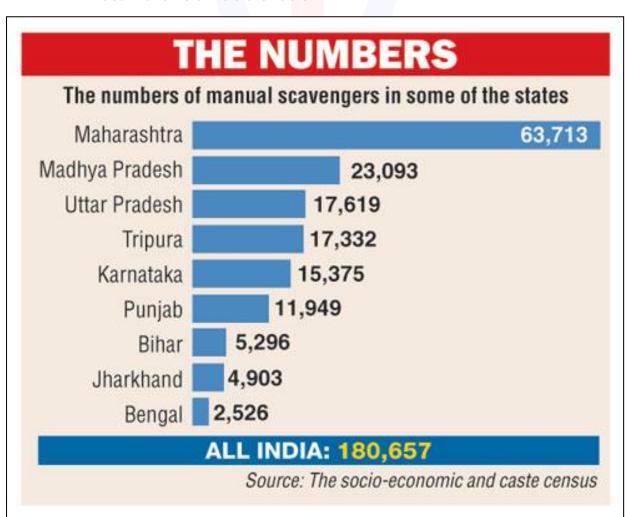
CONSTITUTIONAL AND LEGAL DIMENSIONS

• Constitutional Provisions:

- Article 21: Right to life with dignity includes the right to safe working conditions.
- Article 23: Prohibits forced labour, applicable in cases where workers are coerced into hazardous cleaning without alternatives.
- Article 42: Directs the state to ensure just and humane conditions of work.

Legal Framework:

- The Prohibition of Employment as Manual Scavengers and their Rehabilitation Act, 2013: Bans manual scavenging and mandates rehabilitation of affected persons.
- The Supreme Court (Safai Karamchari Andolan v. Union of India,
 2014) ordered compensation of ₹10 lakh for each sewer/septic tank death and held the state liable.





INITIATIVES TAKEN AGAINST MANUAL SCAVENGING

- The government has formulated the NAMASTE scheme or National Action Plan for Mechanized Sanitation Ecosystem in an effort to stop deaths due to hazardous cleaning of sewers and septic tanks.
- **Swachh Bharat Abhiyan:** Aims to promote sanitation and reduce manual scavenging.
- Rastriya Garima Abhiyaan: National Campaign focused on eradicating the dehumanizing practice of manual scavenging and ensuring comprehensive rehabilitation for manual scavengers throughout India.
- The Bandicoot robot, is India's first indigenous manhole-cleaning robot, introduced in Kerala in 2018. In 2023, Kerala became the first Indian state to fully robotize manhole cleaning.
- **ILO Guidelines:** Call for decent work conditions, safety, training, and social security for sanitation workers.

WAY AHEAD

- Complete Mechanization of Sanitation Work: Mandate use of modern machines for sewer and septic tank cleaning under the NAMASTE scheme, with dedicated funding and training.
- Strengthening Urban Local Bodies (ULBs): Equip ULBs with trained staff, adequate funds, and equipment to modernize sanitation systems and eliminate dependence on manual cleaning.
- Maintain real-time data on sanitation workers and sewer deaths with periodic audits and independent monitoring to ensure transparency and policy response.

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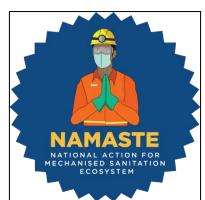


13 WHAT IS NAMASTE SCHEME?

NAMASTE stands for National Action for Mechanized Sanitation Ecosystem.

It is a **joint initiative** of:

- Ministry of Social Justice & Empowerment (MoSJE)
- Ministry of Housing and Urban Affairs (MoHUA)
- Launched in: 2022
- Implemented by: National Safai Karamcharis
 Finance & Development Corporation (NSKFDC) and MoHUA



OBJECTIVE OF NAMASTE

- To achieve **zero fatalities** in sanitation work in India.
- To ensure that no sanitation worker comes into direct contact with human faecal matter.
- To **formalize and professionalize** the sanitation workforce.
- To provide **occupational safety** and **dignity** to sanitation workers.
- To replace manual cleaning with mechanized cleaning technologies.

KEY FEATURES

Feature	Description	
Target Workers	Sewer and Septic Tank Workers (SSWs)	
Pilot Phase	500 cities under AMRUT (Atal Mission for Rejuvenation and Urban Transformation)	
Mechanization	Use of modern machines like jetting machines, robotic sewer cleaners, etc.	
Skill Development	Training of workers in using machinery and safety practices	
Livelihood Support	Linking workers to welfare schemes, financial support, and insurance	
Safety Gear	Provision of PPE kits, gas detectors, etc.	



Health Insurance	Coverage under PM-SYM and Ayushman Bharat	
Tracking	Digitized database of sanitation workers through Swachhata App	

COMPONENTS OF NAMASTE

- Identification and Registration of sanitation workers
- Capacity Building and Skilling of workers
- Provision of Equipment and PPE kits
- Assistance for Livelihood Diversification
- **Convergence** with other government schemes like:
 - Ayushman Bharat
 - o PM Suraksha Bima Yojana
 - National Pension Scheme for Unorganised Workers

SIGNIFICANCE

- Addresses **social stigma** and marginalization of manual scavengers.
- Aims to end manual scavenging—an inhuman practice still reported despite legal prohibition.
- Promotes safe working conditions, gender inclusivity, and urban sanitation goals.
- Enhances India's compliance with SDG 6 (Clean Water & Sanitation) and SDG 8 (Decent Work).

CONSTITUTIONAL AND LEGAL BACKING

- Prohibition of Employment as Manual Scavengers and their Rehabilitation Act, 2013
- Article 21 Right to life and dignity
- Article 17 Abolition of untouchability

CHALLENGES IN IMPLEMENTATION OF NAMASTE SCHEME:

IDENTIFICATION OF MANUAL SCAVENGERS

Problem: States often deny the presence of manual scavenging.



- **Data:** As per Government records, *only 58,098 manual scavengers* have been officially identified across India (2023), but independent organizations estimate numbers to be much higher.
- **Example:** Tamil Nadu, Uttar Pradesh, and Maharashtra report high fatalities, yet often underreport actual manual scavenger data.

LACK OF ACCURATE SURVEYS

- Issue: Many local bodies do not conduct comprehensive surveys.
- Impact: Exclusion of real workers from the benefits of the scheme.
- **Example:** In 2022, the Supreme Court pulled up several states for *zero reporting* despite media reporting multiple deaths in sewer cleaning.

TECHNOLOGY & INFRASTRUCTURE GAPS

- **Problem:** Many municipalities lack adequate machinery.
- **Example:** Delhi and Mumbai have large informal sanitation sectors with no access to mechanized cleaning equipment.
- Issue: Machines like jetting machines, robotic sewer cleaners are either unavailable or not functional.

FINANCIAL EXCLUSION

- **Challenge:** Sanitation workers, often from marginalized communities, lack access to credit.
- **Example:** Difficulties in availing loans under Mudra or other schemes due to lack of documentation or awareness.

POOR REHABILITATION AND SOCIAL REINTEGRATION

- Fact: Manual scavengers continue to face social ostracism.
- **Example:** In many areas, even after shifting to machine-based work, the social stigma persists (e.g., parts of Rajasthan, Madhya Pradesh).

IMPLEMENTATION GAP

- **Observation:** Despite being a central sector scheme, the **State Governments** are slow in implementation.
- **Example:** States like Bihar and Jharkhand showed poor utilization of funds under the NAMASTE program.



DATA TRANSPARENCY AND MONITORING

- Issue: Poor tracking of scheme impact, lack of centralized digital dashboards.
- Judgement: The Supreme Court in Safai Karamchari Andolan v. Union of India (2014) directed strict implementation of the Prohibition of Employment as Manual Scavengers Act, 2013, yet deaths continue.

CONTINUED DEATHS IN SEWER WORK

- Fact: Over 400 deaths reported (2016–2023) due to hazardous sewer cleaning.
- 2023 NCRB Data: Over 60% of sewer cleaning deaths occurred in urban local bodies without proper safety gear.

WAY FORWARD:

- Strict enforcement of the 2013 Prohibition of Manual Scavenging Act.
- Time-bound rehabilitation and mandatory mechanization.
- Regular third-party audits and social inclusion programs.
- Real-time dashboards for tracking deaths, surveys, and machinery use.
- Enhanced budgetary allocations and skill upgradation programs.



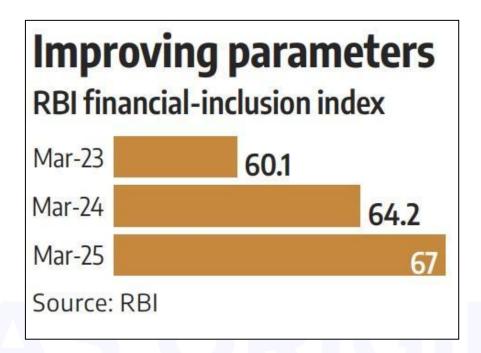


14 RBI'S FINANCIAL INCLUSION INDEX

The Reserve Bank of India's Financial Inclusion Index (FI-Index) rose by 4.3% in FY25.

WHAT IS FINANCIAL INCLUSION?

 It means that individuals and businesses have access to and use affordable financial products and services that meet their needs, which are delivered in a responsible and sustainable way.



FINANCIAL INCLUSION INDEX (THE FI-INDEX)

- It is a comprehensive index incorporating details of banking, investments, insurance, postal, as well as the pension sector in consultation with government and respective sectoral regulators.
- It captures information on various aspects of financial inclusion in a single value ranging between 0 and 100, where 0 represents complete financial exclusion and 100 indicates full financial inclusion.
- It comprises three broad parameters
 - Access, with 35 per cent weightage: It reflects how easily financial services are available
 - Usage with 45 per cent weightage: It indicates how frequently and effectively people are using these services.
 - Quality with 20 per cent weightage: It includes aspects like financial literacy, consumer protection, and reduction in inequalities and service deficiencies.



KEY FINDINGS OF RECENT DATA

- The index value increased from 64.2 in March 2024 to 67 in March 2025.
- The growth was witnessed across all sub-indices access, usage, and quality.
 - The improvement in FY25 was mainly driven by gains in the usage and quality dimensions, highlighting deeper engagement with financial products and services and the impact of ongoing financial literacy efforts.

IMPORTANCE

- Financial inclusion supports entrepreneurship and business growth.
- It is a catalyst for achieving seven of the 17 Sustainable Development Goals (SDGs).
- It fosters economic growth and employment, promotes economic empowerment of women, and contributes to eliminating poverty.
- It helps build resilience for people and businesses vulnerable to climate change and natural disasters
- The rise in the FI-Index signals India's growing success in expanding financial access to underserved populations and enhancing the quality of financial services available.
- This progress supports the government's broader agenda of economic empowerment and inclusive growth, contributing to the strengthening of India's formal financial ecosystem.

RELATED INITIATIVES

The **Pradhan Mantri Jan Dhan Yojana (PMJDY)** has opened over 54.58 crore accounts, with deposits rising to ₹2.46 lakh crore by January 2025. **The Atal Pension Yojana (APY)** has seen a surge in enrolments, reaching 7.33 crore by January 2025, with more than 89.95 lakh new enrolments in FY 2024-25.

The **Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY)** has enrolled 22.52 crore individuals, with ₹17,600 crore disbursed for 8.8 lakh claims.

The **Pradhan Mantri Suraksha Bima Yojana (PMSBY)** has covered 49.12 crore people, processing ₹2,994.75 crore against accident claims.

The **Stand-Up India Scheme** has sanctioned ₹53,609 crore in loans for 2.36 lakh entrepreneurs, with a focus on SC/ST and women.

The **Pradhan Mantri Mudra Yojana (PMMY)** has sanctioned ₹32.36 lakh crore for 51.41 crore loans, with 68% of the loans benefiting women and 50% going to SC/ST/OBC categories.



CHALLENGES OF FINANCIAL INCLUSION

- Large gaps remain between high- and low-income countries in account ownership.
- Women, especially in developing countries, are less likely to have access to financial services.
- Inadequate digital infrastructure and low digital literacy hinder access to mobile financial services.
- Weak consumer protection leaves users vulnerable to fraud, misuse, and lack of transparency.

SUGGESTIONS AND WAY AHEAD

- The Government of India's Financial Inclusion (FI) initiatives serve as a cornerstone for empowering economically and socially marginalized communities by facilitating equitable access to formal financial services.
- There is a need to enhance regulatory frameworks and consumer protection to ensure safe and fair use of digital financial services.

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15 INDIA WITNESSES SURGE IN IP FILINGS OVER FIVE YEARS

The IP filings in India in the last five years have increased by 44%, rising from 4,77,533 in 2020–21 to 6,89,991 in 2024–25.

KEY FINDINGS

The highest growth was observed in Geographical Indications (GI) with a 380% increase, followed by Designs (266%), Patents (180%), Copyright (83%), Trademarks (28%), and Semiconductor Integrated Circuits Layout-Designs (SICLD) with a 20% rise.

INTELLECTUAL PROPERTY (IP) RIGHTS

- Intellectual Property (IP) is generally defined as the 'Product of Mind'.
 - It is a property that results from the creations of intellect in industrial,
 scientific, literary or artistic fields.
- Intellectual Property Right (IPR) is the legally enforceable exclusive right granted to the owner of the intellectual property for a limited period.
 - IPR rewards creativity & human endeavor which fuel the progress of humankind.
- Forms of IPR: Patents, Copyrights, Trademarks, Industrial Designs,
 Geographical Indications, Layout Design of Integrated Circuits, Protection of
 Plant Varieties & Farmers' Rights, Protection of undisclosed information/ Trade
 Secrets.

Type of IPR	What It Protects	Example	Duration	Governing Law (India)
Patent	Inventions, new processes, or technical solutions	COVID-19 vaccine formula by Bharat Biotech	20 years from filing date	Patents Act, 1970 (amended in 2005)
Trademark	Symbols, names, logos, slogans that distinguish goods/services	"Amul", "Tata", Nike Swoosh	10 years (renewable indefinitely)	Trade Marks Act, 1999



Copyright	Literary, artistic, musical, dramatic, software and cinematographic works	Films, books, software, songs	Author's life + 60 years (post death)	Copyright Act, 1957
Geographical Indication (GI)	Goods with specific geographic origin and unique characteristics	Darjeeling Tea, Banarasi Saree	10 years (renewable)	Geographical Indications of Goods Act, 1999
Industrial Design	Aesthetic or ornamental aspect of an article (shape, configuration, pattern)	Shape of Coca-Cola bottle	10 years (extendable by 5 years)	Designs Act, 2000
Trade Secret	Confidential business information that gives a competitive edge	Coca-Cola formula, Google algorithm	Unlimited (as long as secrecy is maintained)	No specific law (Protected under common law, contracts)

IS AN INDIAN PATENT VALID IN OTHER COUNTRIES?

- No. Patent rights are territorial rights, which will be valid within the territory of the Country which has issued Patent.
- Hence, an Indian Patent, which is granted by the Indian Government, will be **valid only in India.**

INDIA'S INITIATIVE

- National IPR Policy 2016 encompassing all IPRs into a single vision document setting in place an institutional mechanism for implementation, monitoring and review of IP laws.
 - The policy encourages innovation and creativity by providing stronger protection and incentives for inventors, artists, and creators.
- Artificial Intelligence (AI) and Machine Learning (ML) based Trademark
 Search Technology has been introduced for a more efficient and accurate examination and faster disposal of Trade Mark applications.



- The Start-Ups Intellectual Property Protection (SIPP) scheme was launched in 2016 to provide pro bono facilitation to startups for the filing and processing of patent, trademark, and design applications.
- Cell for IPR Promotion and Management (CIPAM): It has been set up to coordinate the implementation of the National IPR Policy.
- National Intellectual Property Awareness Mission (NIPAM), a flagship program to impart IP awareness and basic training in educational institutes.
- Atal Innovation Mission (AIM): It was set up by NITI Aayog in 2016 to promote a
 culture of innovation and entrepreneurship in India. AIM has created four
 programs to support these functions:
 - Atal Tinkering Labs
 - Atal Incubation Centers
 - Atal New India Challenges and Atal Grand Challenges
 - o Mentor India.

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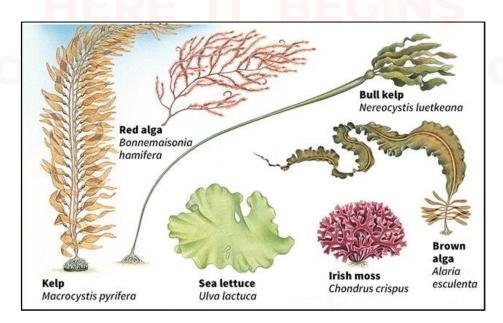
16 SEAWEED CULTIVATION IN INDIA

In a significant step towards enhancing marine-based livelihoods and sustainable resource use, India has identified **384 potential sites across 24,707 hectares** for seaweed cultivation.



WHAT ARE SEAWEEDS?

- Seaweed refers to various species of macroscopic, multicellular marine algae belonging primarily to the green, red, and brown algae groups that grow in seas, oceans, and tidal areas.
- Unlike terrestrial plants, seaweeds do not have true stems, roots, or leaves.
- They absorb nutrients and photosynthesize through their entire body.
- Seaweed is used globally for food, cosmetics, fertilizers, pharmaceuticals,
 biofuel, and bioplastics.





CLIMATIC CONDITIONS

- Optimal growth occurs in waters with salinity **above 30 ppt**.
- Temperature lies between 26°C and 30°C.
- Water depth of 1 metre during low tide is essential.
- Seaweeds grow best on rocky bottoms in clear waters.
- Transparent water ensures adequate sunlight penetration for photosynthesis.
- Mild water currents are ideal for maintaining nutrient flow and oxygen supply.

USES OF SEAWEEDS

- Seaweeds are consumed in sushi, salads, snacks, and seaweed-based condiments.
- They are rich in **iodine**, **fibre**, **vitamins**, and **antioxidant** compounds.
- Seaweed compounds act as binding agents in toothpaste, jelly, and as emollients in organic cosmetics.
- Liquid extracts from seaweeds act as bio-stimulants in organic agriculture.
- Compounds offer anti-inflammatory, anti-cancer, & heart-protective properties.
- Seaweeds are processed for bioethanol and biogas as renewable fuel alternatives.

SEAWEED CULTIVATION IN INDIA

Coastal States Involved: Tamil Nadu, Gujarat, Maharashtra, Odisha, Andhra Pradesh, Lakshadweep.

TYPES CULTIVATED:

Red algae: Gracilaria, Gelidiella

• Brown algae: Sargassum, Turbinaria

• Green algae: Ulva

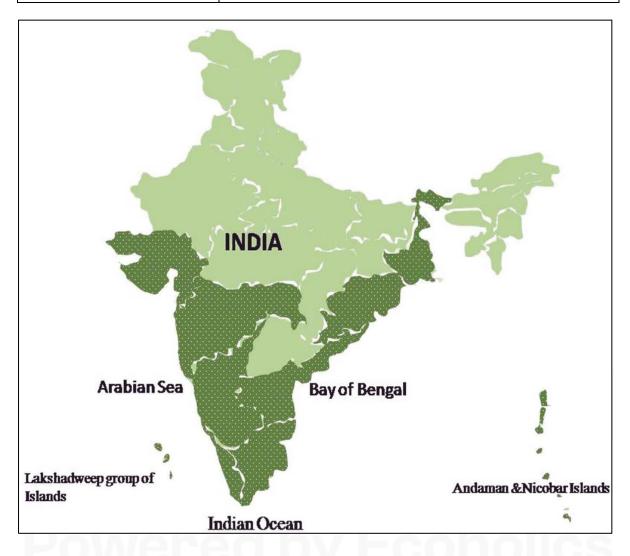
• **Major Uses**: Agar-agar, carrageenan (used in food stabilizers), manure, animal feed, cosmetics, pharma, and bioplastics.

GOVERNMENT INITIATIVES FOR SEAWEED CULTIVATION

Seaweed Park (Tamil	India's first integrated seaweed park to boost		
Nadu)	cultivation, processing, and exports.		



Marine Bioresource Mission	Part of the Deep Ocean Mission to harness marine resources like seaweed.
Pradhan Mantri Matsya Sampada Yojana	Encourages seaweed cultivation under the aquaculture component.

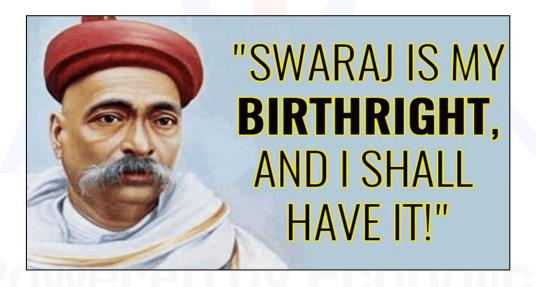




17 BAL GANGADHAR TILAK

PM Narendra Modi paid tribute to pioneering nationalist leader **Bal Gangadhar Tilak** on his **169**th **birth anniversary** on **23 July 2025**.

- Tilak was born on **July 23, 1856**, in **Ratnagiri**, and died on **August 1, 1920**, in **Bombay**.
- He was popularly known as Lokmanya (meaning 'accepted by the people'),
 while Mahatma Gandhi called him the "Maker of Modern India" for awakening
 Indian national consciousness.
- He coined the slogan "Swaraj is my birthright," asserting self-rule as a national right.
- In 1916, he co-founded the Home Rule League to institutionalize self-rule demand.
- He popularized **Ganesh Chaturthi** and **Shivaji Jayanti** to foster patriotic feeling.
- He launched newspapers, Kesari (Marathi) and The Mahratta (English).



BOOKS BY TILAK

- The Orion, Or, Researches into the Antiquity of the Vedas (English)
- The Arctic Home in the Vedas (English; about the origins of the Indo-Aryan people)
- Gita Rahasya (Marathi; authored in 1915 while he was in prison at Mandalay, Burma. d
- According to him, the real message behind the Bhagavad Gita is Nishkam Karmayoga (selfless action), rather than Karma Sanyasa (renouncing of actions))



MAJOR CONTRIBUTIONS TO INDIAN FREEDOM MOVEMENT

ASSERTIVE NATIONALISM:

- Believed in direct action, unlike moderates of Indian National Congress.
- Advocated Swaraj (self-rule) and boycott of British goods.

NEWSPAPERS AND PUBLICATIONS:

- Founded **Kesari** (Marathi) and **Mahratta** (English) newspapers.
- Used press to awaken political consciousness.

EDUCATION REFORMS:

- Co-founded the Deccan Education Society (1884).
- Established Fergusson College in Pune.

CULTURAL NATIONALISM:

- Started Ganesh Utsav (1893) and Shivaji Utsav (1895) to unite Indians through cultural pride.
- Promoted Hindi and vernacular languages for national awakening.

HOME RULE MOVEMENT (1916):

- Along with Annie Besant, launched the **Home Rule League**.
- Demanded self-government within British India.

CONGRESS SPLIT (1907):

- At Surat Session, Tilak led the extremists, split from moderates.
- Called for direct political action.

IMPRISONMENT:

- Arrested for sedition in 1908 (for Kesari articles).
- Sent to Mandlay jail in Burma for 6 years (1908–1914).

HINDU REVIVALISM:

- Emphasized **Bhagavad Gita** as a call to action.
- Wanted Hindu traditions to be reinterpreted for national regeneration.



18

INDIA SIGNED AN AGREEMENT WITH NEPAL TO IMPLEMENT 5 HIGH-IMPACT COMMUNITY DEVELOPMENT PROJECTS

Recently, India signed an agreement with Nepal to implement 5 high-impact community development projects (HICDPs) in education and health sectors under an Indian grant of ₹390 million.

HIGH-IMPACT COMMUNITY DEVELOPMENT PROJECTS (HICDPS)

Sector	Projects
Education	Construction of 4 Secondary Schools in Dhanusha, Parsa, Achham & Bara districts
Health	Construction of a 5-bed hospital in Manang district

STRATEGIC SIGNIFICANCE

- Enhances access to health and education in Nepal's underserved areas, aligning with its decentralization goals.
- Reinforces India's image as a reliable and benevolent partner, strengthening people-to-people ties through grassroots projects.
- Reflects India's proactive commitment as a "Big Brother" in regional development, fostering goodwill and regional stability.

CHALLENGES

- At Susta, Kalapani, and the 'tri-junction' of Lipulekh area.
- Agreements such as Kosi (1954) and Mahakali (1996) remain stalled, leading to the pending of the Pancheshwar Multipurpose Project.
- Porous & open borders **lead to illegal migration**, infiltration, human trafficking, etc.
- China's **chequebook diplomacy** & its presence in the region pose challenges to the India-Nepal relationship.







- Nepal has two tri-junctions with India and China
- The one in dispute now is Lipulekh in Kalapani, at the border of Uttarakhand with Nepal
- In 1816, the Sugauli Treaty signed by Nepal and British India identified Kali river as

- Nepal's boundary with India
- Nepal claims the river to Kalapani's west is the main Kali, and thus Nepal has territorial rights to it
- India holds that a ridgeline to Kalapani's east is the border, thus Kalapani falls within its territory

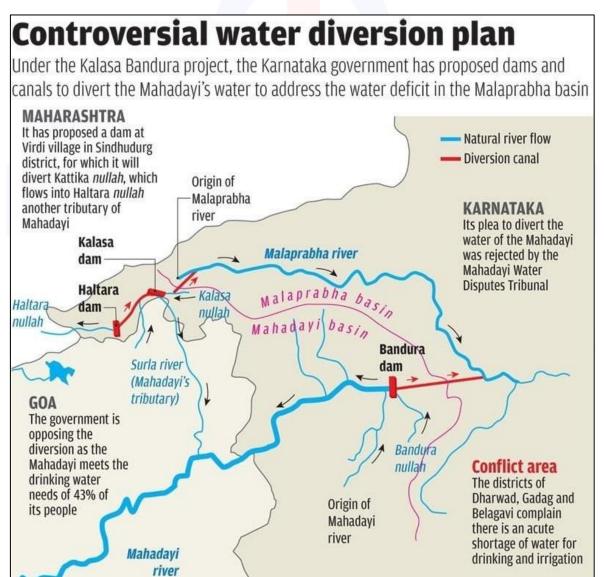


19 MHADEI RIVER'S

Goa is taking Karnataka to the Supreme Court, accusing it of illegally diverting water from the Mhadei river's Kalasa tributary.

MHADEI RIVER

- **River Origin:** Mhadei (also called Mandovi in Goa) originates in Karnataka's Western Ghats (Belagavi district).
- Length & Flow: ~111 km; 35 km in Karnataka, 76 km in Goa.
- **Tributaries:** Malaprabha, Pandari, Bailnadi (in Karnataka); Khandepar, Valvanti (in Goa).
- **Drainage:** Arabian Sea (via Goa).
- States Involved: Karnataka, Goa, Maharashtra.





KEY FACTS:

- Basin Area: 2,032 sq. km (Goa: 1,580 sq. km, Karnataka: 375 sq. km, Maharashtra: 77 sq. km).
- Lifeline of Goa: Critical for drinking water, agriculture, and biodiversity.
- **Major Projects:** Kalasa-Banduri Nala Project (Karnataka) proposes diversion to Malaprabha River.
- Parties: Karnataka, Goa, Maharashtra.
- **Karnataka's Demand:** Divert water to Malaprabha basin for drought-prone regions (Hubballi-Dharwad, Gadag).
- **Goa's Opposition:** Argues diversion harms ecology, water security, and violates tribunal orders.
- Mahadayi Tribunal (2018): Allocated 13.42 TMC to Karnataka, 24 TMC to Goa, 1.33 TMC to Maharashtra.
- Current Status: Both states challenged the award in Supreme Court.





20 MIG-21 BISON JETS

Over six decades of service, the Indian Air Force (IAF) is set to formally retire its last MiG-21 Bison jets, marking the end of one of the world's longest-serving fighter platforms.

Full Name: Mikoyan-Gurevich MiG-21

• Origin: Soviet Union

Entered IAF Service: 1963

• Speed: Mach 2.1 (supersonic; over 2,200 km/h)

Category: Interceptor and fighter aircraft

• Significance: First supersonic combat aircraft of the Indian Air Force (IAF)



IMPORTANCE OF MIG 21 IN INDIAN DEFENCE HISTORY

SUPERSONIC ENTRY:

- Marked India's entry into the supersonic jet era.
- Allowed the IAF to match the capabilities of advanced air forces globally.

COMBAT RECORD:

- Played a key role in 1965, 1971, and Kargil wars.
- Notable achievement: MiG-21 shot down the advanced F-104 Starfighter of Pakistan in 1971

LICENSE PRODUCTION:

 Initially imported, later manufactured under license by HAL (Hindustan Aeronautics Ltd.).



Helped develop India's aerospace production capacity.

VARIANTS IN INDIA:

- MiG-21FL, MiG-21M, MiG-21bis, and MiG-21 Bison (upgraded version).
- Bison is equipped with improved radar, missiles, and avionics.

OPERATIONAL LEGACY

- Longest-serving fighter aircraft in IAF history over 60 years.
- Over 850 MiG-21s inducted over time.
- IAF Pilots nicknamed it: "Flying Coffin" due to aging and safety issues in later years.

TYPES OF FIGHTER JETS

Fighter Jet	Origin	Engine Type	Induction Year
Dassault Rafale	France	Twin-engine	2020
Sukhoi Su-30MKI	Russia	Twin-engine	2002
HAL Tejas	India	Single-engine	2016
Mirage 2000	France	Single-engine	1985
MiG-29 UPG	Russia	Twin-engine	1985 (Upgraded)
SEPECAT Jaguar	UK-France	Twin-engine	1979
MiG-21 Bison	Russia	Sing <mark>le-engine</mark>	1 <mark>963 (U</mark> pgraded)



21 HATTI TRIBE

Himachal Pradesh, two brothers from the Hatti tribe married one woman in a polyandrous marriage, a traditional practice still seen in some Himalayan tribal communities.



Locally known as "Jodidara" or "Jajda", is a traditional practice among the Hatti community where brothers marry the same woman.

HATTI TRIBE

- The Hatti are a close-knit tribal community residing along the Himachal
 Pradesh–Uttarakhand border.
- Their name comes from their traditional occupation of **selling crops** and meat at **local haats (marketplaces).**
- The Hattis has two main clans—Trans-Giri (in Himachal Pradesh) and Jaunsar Bawar (in Uttarakhand).
- They were granted Schedule Tribe status in August 2023.

WHAT IS POLYANDRY?

- Polyandry is a form of marriage where **one woman marries multiple men**.
- It is of two main types:
 - o Fraternal (Adelphic): All husbands are brothers.



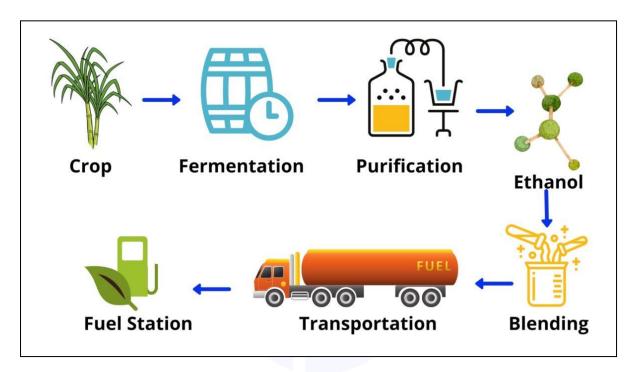
- Non-Fraternal: Husbands are unrelated, and share the woman by rotation.
- Polyandry is illegal under Indian law, but the Himachal Pradesh revenue law has upheld the Hatti tribe's tradition of Jodidara, allowing them to continue the practice under customary tribal law.
- **Traditional Council**: The Hatti community is governed by a local body called the **Khumbli**, which handles **social issues** and **community decisions**.

Tribe	Region
Toda	Nilgiri Hills, Tamil Nadu
Khasa	Uttarakhand (especially Jaunsar Bawar region)
Hatti	Himachal Pradesh (Sirmaur, Trans-Giri region)
Khasi	Meghalaya
Ladani Bota	Northern India (exact locality not well defin
Nayar	Kerala (historically, in matrilineal setup)



22 ETHANOL BLENDING IN PETROL

India met its 20% ethanol blending goal in 2025, ahead of the 2030 target, and now aims to scale blending to 27% by 2030 under the National Policy on Biofuels.



ETHANOL

- Ethanol (C₂H₅OH) is a renewable, flammable, colorless bio-alcohol used as a transport fuel.
- Produced through fermentation of sugars/starches or by ethylene hydration.
- Ethanol has a high-octane rating but is 27% less energy-dense than petrol.
- It serves as a petrol **additive** and as a **standalone** fuel (E85, E100) in flex-fuel cars.
- Ethanol is also used in sanitizers, perfumes, beverages, and industrial solvents.
- Distillers' dried grains (DDGS) from grain ethanol are reused as animal feed.
- Ethanol is classified by feedstock origin into three generations:
 - o From **food crops** like sugarcane and maize.
 - From crop residues, bagasse, and bamboo.
- 3G Ethanol: From algae; still in R&D stage.
- Ethanol is 99.9% pure alcohol and blends with petrol due to chemical miscibility.



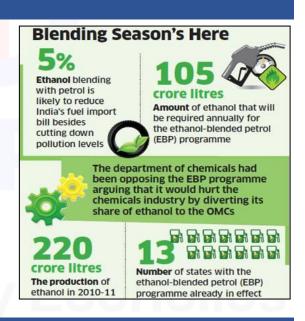
 Ethanol blending improves fuel combustion and reduces CO and hydrocarbon emissions.

ETHANOL BLENDING PROGRAMME (EBP)

- **Programme Evolution:** EBP began in 2003 and achieved nationwide rollout by **2019**.
- **Blending Progress:** Blending rose from **1.5%** (2014) to **10%** (2022) and 20% (2025).
- **E27 Target:** India aims to reach 27% ethanol blending by 2030 with phased rollout support.
- Nodal Ministry: Ministry of Petroleum and Natural Gas oversees EBP with multi-ministry coordination.
- Labelling: Fuel pumps and vehicles must display ethanol blend level to ensure consumer awareness.

OTHER GOVERNMENT INITIATIVES

- Policy Backbone: National Biofuel
 Policy 2018 (amended in 2022)
 enables surplus foodgrain usage.
- Loan Support: Ethanol Interest Subvention Scheme (EISS) offers 6% interest subsidy to new distilleries.
- GST Reform: GST on blending ethanol reduced from 18% to 5% to lower production cost.
- E20 Compliance: All BS-VI petrol vehicles must meet E20 certification norms from April 2025.



SIGNIFICANCE OF ETHANOL BLENDING

- Import Reduction: Ethanol blending reduces India's dependency on crude oil imports.
- Forex Saving: ₹1.36 lakh crore saved in foreign exchange through import substitution.
- Lifecycle Emissions: 2G ethanol cuts GHGs by over 50% compared to petrol.
- Farmer Income: Since 2014, farmers have received ~₹1 lakh crore through procurement transfers.



- Agro Waste Utilization: Promotes a <u>circular economy</u> by using stubble, dung, and biomass.
- Crop Diversification: Incentivizes maize cultivation and reduces cane dependency.
- **Blending Buffer:** Ethanol stockpiles offer **blending flexibility** to manage price shocks in crude oil.

ISSUES WITH ETHANOL BLENDING

- Food-Fuel Conflict: Ethanol from foodgrains risks inflation and nutritional insecurity.
- Water Intensity: Producing 1 litre of ethanol consumes ~3000 litres of water, raising groundwater stress.
- Environmental Burden: Expansion risks deforestation, soil degradation, and monoculture.
- Pollution Concerns: Ethanol plants emit acetaldehyde, release vinasse, and fail to curb nitrous oxide.
- Mileage Reduction: E10-E20 blends lower fuel efficiency by up to 7%, while E100 cuts it by nearly 30%.
- **Logistics Lag:** Ethanol pipelines, storage, and rural blending depots remain inadequate.
- Price Uncertainty: Inconsistent feedstock pricing weakens investor confidence in ethanol distilleries.

WAY FORWARD

- **E27 Rollout: Prepare roadmap** for scaling up blending to 27% by 2030.
- Maize Push: Increase MSP and acreage under maize to reduce foodgrain diversion.
- 2G Expansion: Fast-track bamboo, bagasse, and stubble-based ethanol plants.
- Water-Audit Mandate: Enforce water-use audits for all distilleries under CPCB norms.
- Balanced Allocation: Cap FCI foodgrain usage and incentivize non-edible feedstocks.
- Vehicle R&D: Develop E20-E100 compliant engines with corrosion & mileage safeguards.
- Global Partnerships: Collaborate with Brazil and Sweden for flex-fuel and lifecycle audit tech.



23 TRACKING INDIA'S CLIMATE COMMITMENTS

India has crossed a major climate milestone by achieving key targets under the <u>Paris</u> <u>Agreement (2015)</u> well ahead of schedule.

PROGRESS ON KEY CLIMATE TARGETS

INSTALLED CAPACITY:

- Target: 50% of electricity capacity from non-fossil fuels by 2030.
- Achieved: As of June 2025, non-fossil sources contribute over 50% (242.78 GW) of the total installed capacity of 484.82 GW, target achieved 5 years ahead of schedule.

EMISSIONS INTENSITY:

- Target: 45% reduction in emissions intensity (from 2005 levels) by 2030.
- Achieved: By 2020, India had already achieved a 36% reduction. The current pace suggests the 2030 goal will be met comfortably.

CARBON SINK:

- Target: Additional 2.5 to 3 billion tonnes of CO₂-equivalent sink by 2030.
- Achieved: By 2021, India had already created a carbon sink of 2.29 billion tonnes CO₂-equivalent. Updated figures are expected in the next ISFR to assess progress after 2021.

WHAT IS PARIS AGREEMENT?

The Paris Agreement is a legally binding international treaty on climate change, adopted by 196 countries at the United Nations Climate Change Conference (COP21) in Paris, on December 12, 2015, and came into force on November 4, 2016.

KEY FEATURES OF THE PARIS AGREEMENT:

MAIN GOAL:

To limit **global warming** to **well below 2°C**, preferably **1.5°C**, compared to **pre-industrial levels**.

NATIONALLY DETERMINED CONTRIBUTIONS (NDCS):

- Each country must submit a climate action plan known as NDC.
- These plans are **not legally binding** but must be updated every **5 years** to reflect **increasing ambition**.

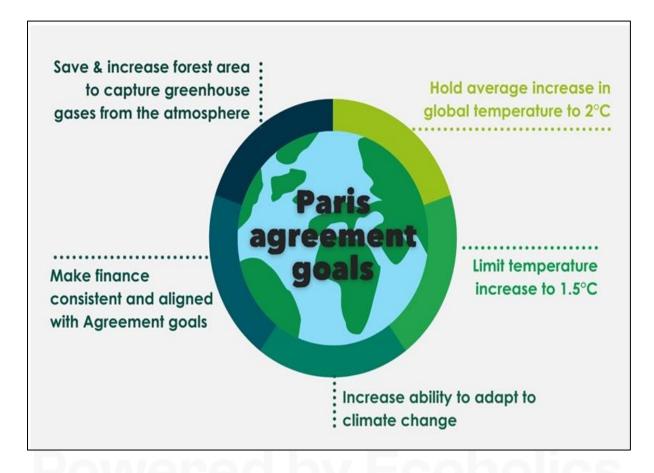


NET ZERO EMISSIONS GOAL:

• The agreement aims to achieve **net-zero greenhouse gas emissions** in the **second half of the century** (by **2050–2100**).

CLIMATE FINANCE:

- Developed countries agreed to **mobilize \$100 billion/year by 2020** to support **developing nations** in climate action.
- This amount may increase after 2025.



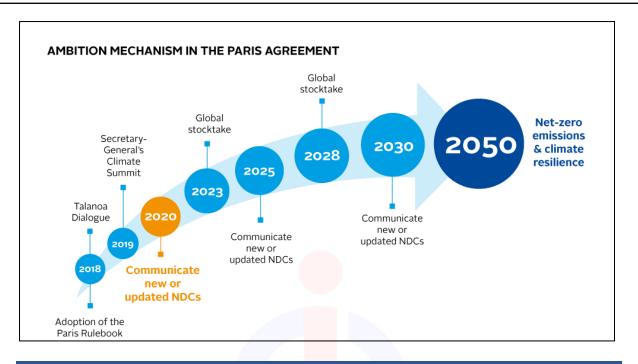
TRANSPARENCY MECHANISM:

- Countries must report emissions and efforts using a common transparency framework (CTF).
- There is a system of global stocktaking every 5 years to assess collective progress.

GLOBAL PARTICIPATION:

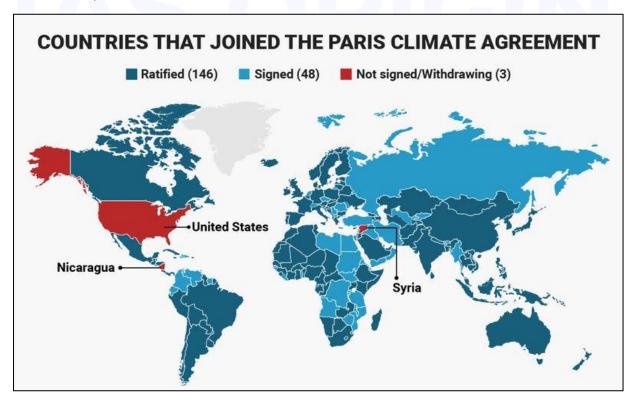
 As of now, almost all nations, including major emitters like the USA, China, and India, are parties to the agreement.





INDIA'S ROLE:

- Committed to reducing emissions intensity of GDP by **33–35% by 2030** from 2005 levels.
- Target to achieve 50% cumulative electric power from non-fossil fuel sources by 2030.
- Committed to achieving net-zero by 2070 (declared at COP26 in Glasgow, 2021).





IMPORTANCE OF THE PARIS AGREEMENT:

- First universal climate agreement binding all nations to climate targets.
- Promotes climate justice, sustainable development, and cooperation.
- Key tool for ensuring **global unity** against climate change.

LIMITATIONS AND CHALLENGES

- Capacity-Generation Mismatch: While 50% of installed capacity is nonfossil, only 28% of actual electricity generation comes from renewable sources.
- Share in Energy Mix: Electricity accounts for less than 22% of India's total energy consumption. The remaining energy use is from the direct burning of fossil fuels, such as oil, coal, & gas.
- Nuclear Power: Nuclear energy contributes just ~7 GW and is expected to grow only slightly by 2030. Hence, the pressure remains on solar, wind, & hydro to drive clean energy growth.
- Capacity–Generation Gap: Although non-fossil sources account for over 50% of installed capacity, they generate only ~28% of actual electricity, due to intermittency and storage issues.
- Fossil Fuel Dominance: Electricity forms <22% of India's total energy use; the rest still relies heavily on direct fossil fuel consumption.
- Limited Nuclear Role: Nuclear contributes only ~7 GW, with minimal expected growth, putting more pressure on solar, wind, and hydro.

WAY FORWARD

- **Broaden Decarbonization:** Tackle emissions in transport, industry, and heating via EVs, green hydrogen, and biofuels.
- Enhance Storage: Invest in battery storage and smart grids to manage renewable intermittency.
- Improve Carbon Data: Ensure accurate carbon accounting to validate afforestation and enhance climate credibility.
- Accelerate Capacity Addition: Match global pace, especially China's, to stay competitive in the clean energy transition.



24 'ADFALCIVAX'

India has developed a new multi-stage malaria vaccine candidate called AdFalciVax



ADFALCIVAX VACCINE

- Developed By: ICMR's Regional Medical Research Centre (RMRC), National Institute of Malaria Research (NIMR), and Department of Biotechnology's National Institute of Immunology (DBT-NII).
- **Type:** A recombinant chimeric multi-stage malaria vaccine, genetically engineered using antigens from multiple life stages of the malaria parasite.
- Uniquely developed using *Lactococcus lactis*, a food-grade bacterium used in dairy fermentation.
- Target Parasite: Plasmodium falciparum, the deadliest of the five human malaria parasites.

DUAL OBJECTIVE:

- Prevent human infection from P. falciparum.
- Curb community-level transmission by targeting parasite stages within the mosquito vector.
- **Current Status:** Demonstrated high efficacy in preclinical trials. Not yet approved for clinical use.

BENEFITS OVER EXISTING MALARIA VACCINES

- Dual Protection: Targets two parasite stages for improved efficacy.
- Stronger Immune Response: Reduces the risk of immune evasion seen in single-antigen vaccines.
- Thermal Stability: Remains effective for over 9 months at room temperature, aiding remote deployment.



25 BITRA ISLAND

The government has initiated the acquisition of Bitra Island in Lakshadweep for defence purposes.



BITRA ISLAND:

- It is the smallest inhabited island in the **Union Territory of Lakshadweep**.
- Situated at 11°36'N, 72°11'E, Bitra lies about 483 km (261 nautical miles) from Kochi, the gateway to Lakshadweep.
- It is part of the Aminidivi subgroup and spans 0.57 km in length and 0.28 km at its widest.
- The climate of Bitra closely resembles that of Kerala.
- Hot period: March to May, temperatures range from 25°C to 35°C.
- Annual Rainfall: 1600 mm.
- It is surrounded by a vast **lagoon area of 45.61 sq km**, supporting rich **marine biodiversity**.
- As per the <u>2011 census</u>, it has a population of <u>271</u>, mostly dependent on <u>fishing</u> and <u>coconut cultivation</u>.
- Bitra is strategically located near major shipping lanes and is set to host a defense establishment, complementing naval bases at Kavaratti (INS Dweeprakshak) and Minicoy (INS Jatayu).



26

INDIA BECOMES GLOBAL LEADER IN FAST PAYMENTS

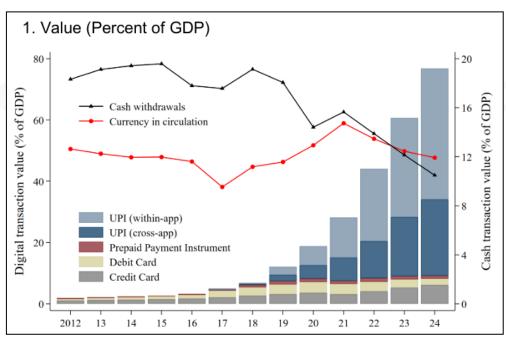
India has become the global leader in real-time payments as <u>UPI</u> processed 18.39 billion transactions in June 2025, according to an IMF-supported report.

WHAT THE REPORT IS?

- Jointly developed by the International Monetary Fund (IMF) and FIS Global,
 this Fast Payments Report 2025 analyses global public digital infrastructure.
- It uses a new metric: Faster Payment Adoption Score (FPAS) to benchmark digital payment adoption.

INDIA'S ACHIEVEMENTS:

- Top Global Rank (FPAS: 87.5%): India leads 30 countries, surpassing Brazil, Singapore, UK, and USA.
- **UPI Scale:** Processes over 640 million transactions daily, serving 491 million individuals and 65 million merchants via 675 banks.
- **Speed and Cost:** Delivers payments within 5 seconds, with near-zero cost per transaction.
- **Global Reach:** UPI is now operational in 7 countries, including France, UAE, and Singapore.
- BRICS Integration: India is advocating UPI as a <u>cross-border payment</u> standard among BRICS+ nations.





KEY FEATURES OF INDIA'S UPI ECOSYSTEM:

INTEROPERABILITY:

 Seamless fund transfer across multiple banks and platforms using a single interface.

REAL-TIME TRANSACTIONS:

• Instant money transfer, 24x7 availability including weekends and bank holidays.

USER-FRIENDLY INTERFACE:

Simple two-factor authentication using mobile number and UPI PIN; no need for account details.

MULTIPLE USE-CASES:

• Peer-to-peer (P2P), merchant payments, bill payments, QR code scanning, recurring mandates (e.g., OTT subscriptions, loan EMIs).

COST-EFFECTIVE:

 Mostly free or nominal charges, promoting financial inclusion, especially among low-income groups.

STRONG GROWTH AND ADOPTION:

 Over 12 billion transactions/month (as of 2025), expanding into rural areas and tier-2/3 cities.

GOVERNMENT AND PRIVATE INTEGRATION:

 Used in various schemes like PM SVANidhi, digital DBT (Direct Benefit Transfer), and integrated with e-RUPI and DigiLocker.

SECURITY AND PRIVACY:

 Built on two-factor authentication with NPCI-regulated guidelines, minimizing frauds through device-binding, UPI PIN, and tokenization.

CROSS-BORDER EXPANSION:

 Linked with Singapore, UAE, France, Bhutan, Sri Lanka, and others, boosting digital diplomacy and remittance efficiency.

INNOVATIVE ADDITIONS:

 Features like UPI Lite, UPI123Pay (for feature phones), and Conversational Payments using Al/voice tech.



LIMITATIONS AND CHALLENGES OF UPI ECOSYSTEM:

CYBERSECURITY RISKS:

Rising instances of phishing, social engineering scams, and fake app frauds.

TECHNICAL GLITCHES:

• Server downtimes, failed transactions, and delays due to high volumes, especially during peak hours.

DEPENDENCE ON INTERNET AND SMARTPHONES:

• Limits access in areas with low digital literacy or poor connectivity.

LOW REVENUE MODEL:

 No MDR (Merchant Discount Rate) policy has discouraged some banks and fintechs due to unsustainable revenue.

INTEROPERABILITY GAPS:

 Some banks/platforms restrict UPI features (e.g., transaction limits, authentication methods).

DIGITAL DIVIDE:

 Rural elderly population, less tech-savvy users face hurdles in adoption despite UPI123Pay.

MONOPOLY CONCERNS:

 Market dominance of PhonePe and Google Pay (combined >80% market share) raises antitrust and competition issues.

LIMITED DISPUTE RESOLUTION MECHANISM:

 Grievance redressal is often delayed or inefficient in transaction failures and fraud.

PRIVACY CONCERNS:

 Potential misuse of data by third-party apps and lack of user awareness about data sharing policies.

INTERNATIONAL EXPANSION CHALLENGES:

 Regulatory barriers, compliance issues, and currency conversion complexities in cross-border UPI rollouts.



WAY AHEAD:

BUILD ROBUST OFFLINE CAPABILITY:

 Expand USSD and NFC-based UPI Lite+ to ensure reach in rural, lowconnectivity zones.

GLOBAL REGULATORY ALIGNMENT:

 Collaborate with central banks to harmonize data security, authentication, and settlement systems for UPI's cross-border use.

STRENGTHEN LEGAL FRAMEWORKS:

 Introduce a comprehensive Digital Payments Consumer Protection Act to address data misuse and transaction failures.

INCLUSIVE DESIGN PRINCIPLES:

 Promote accessibility features (voice-assisted UPI, vernacular UIs) for elderly, disabled, and digitally illiterate populations.

UNIFIED GRIEVANCE REDRESSAL PLATFORM:

 Create a central, Al-assisted resolution portal for UPI complaints, integrated with NPCI and RBI systems.





27 GURYUL RAVINE FOSSIL SITE

The Geological Survey of India (GSI) has warned of severe threats to the Guryul Ravine fossil site in Kashmir due to ongoing quarrying and land diversion.

WHAT IS THE GURYUL RAVINE FOSSIL SITE?

Permian-Triassic Boundary Marker (≈252 million years ago)

Guryul Ravine is renowned as one of the few terrestrial locations preserving an extensive, well-preserved section of the Permian–Triassic mass-extinction event, often called "the Great Dying," which wiped out up to 96% of marine and 70% of land species.

World's Earliest Tsunami Evidence

Geological layers at the site contain seismite-tsunamite structures interpreted as records of Earth's first known tsunami during the PTB transition.

Rich Fossil Beds

The Zewan–Khunamuh sedimentary formations host fossils of primordial corals, invertebrates, plant life, and therapsid reptiles (mammal-like reptiles from pre-dinosaur periods).

Global Research Hub

Geologists from India, Japan, China, Canada, and beyond have studied it since the 19th century. Its fossil section is far thicker and better-preserved than comparable sites like China's Meishan.

CURRENT THREATS & DEGRADATION

ILLEGAL QUARRYING & MINING

Despite being declared a protected site under a 2017 government order, illegal extraction has continued. Limestone with embedded fossils is dispatched to cement factories and construction sites, driven largely by local industrial demand.

ENVIRONMENTAL VANDALISM: GARBAGE DUMPING



Recently, a large illegal waste dumping ground was set up adjacent to the fossil park. Authorities have enclosed the area and built a garbage shed, violating environmental laws like the Environment (Protection) Act, Wildlife (Protection) Act, and Solid Waste Management Rules.



GOVERNANCE FAILURES

Monitoring has been sporadic: nocturnal mining often escapes detection. Local truck owners and cement industries exert economic pressures. Previous court orders and bans on quarrying have largely been unenforced.

SCIENTIFIC & HERITAGE SIGNIFICANCE

Feature	Importance	
PTB Record	Offers unmatched stratigraphic record of the Permian–	
PID RECOID	Triassic transition	
Fossil Divorsity	Encases a wi <mark>der an</mark> d more complete fossil range than	
Fossil Diversity	many global <mark>count</mark> erparts	
Geoheritage &	Potential UNESCO Global Geopark and geological	
Education Value	monument	
Research Potential	Ongoing studies by scientists from over 10 countries	

CONSERVATION IMPERATIVES & WAY FORWARD

- Legal Designation as an Eco-Sensitive Zone and No-Dumping Area, ensuring buffer protection around the fossil beds.
- Immediate Removal of Garbage Yard, strict enforcement against polluters, and dismantling of illegal dumpsite infrastructure.
- **Ban Quarrying Enforcement**: Monitoring should be strengthened and punishments meted to violators.
- **Site Fencing & Controlled Access**, combined with geological surveys and education outreach to reduce unauthorized entry and damage.
- Promotion as Geo-Tourism/R&D Hub: Under care of GSI and educational institutions, it could serve as a valuable research site and heritage tourism destination.



28 KASHI DECLARATION

The Youth Spiritual Summit concluded in Varanasi with the adoption of the Kashi Declaration, setting a national roadmap for youth-led action <u>against drug abuse</u>.

WHAT IS THE KASHI DECLARATION ON DRUGS?

- The Kashi Declaration is a national action roadmap adopted at the Youth Spiritual Summit in Varanasi (Kashi), held from July 18–20, 2025, under the theme "Nasha Mukt Yuva for Viksit Bharat" (Drug-Free Youth for a Developed India).
- It represents a collective pledge made by over 600 youth leaders and more than 120 spiritual and socio-cultural organizations to launch a youth-led, spiritually anchored, pan-India anti-drug movement.



KEY HIGHLIGHTS OF THE DECLARATION

VISION & TIMELINE

- Aspires to forge a Nasha Mukt Bharat by 2047, with dedicated focus on youth leadership and cultural values.
- Lays out a **5-year roadmap** for grassroots mobilization across India.

STRATEGIC FRAMEWORK

• Urges a multi-sectoral, whole-of-society response—involving spiritual institutions, educational systems, ministries (Youth, Home Affairs, Social Justice, Culture), healthcare, and enforcement agencies like NCB.



 Proposes establishment of a Joint National Committee for inter-ministerial coordination, annual progress reporting, and a digital support platform for affected individuals to access rehabilitation services.

YOUTH & SPIRITUAL LEADERSHIP

- Positions spiritual bodies as grassroots drivers: ashrams, gurukuls, temples, and youth networks will lead awareness campaigns, pledges, and peer mentorship under the MY Bharat framework.
- Encourages **values-based**, **peer-led outreach** through cultural and moral education—not just punishment or law enforcement.

FOCUS THEMES

The Summit organized four plenary sessions, covering:

- Psychological & social impact of addiction
- Disrupting trafficking networks
- Effective grassroots communication strategies
- Spiritual and cultural rehabilitation models

SIGNIFICANCE & INSTITUTIONAL FOLLOW-UP

- Marks a turning point in India's drug policy by treating substance abuse as both a public health issue and a moral challenge, not merely a law-and-order problem.
- Aligns with existing government initiatives like **Nasha Mukt Bharat Abhiyan**, but brings a **unique spiritual**, **values-based approach**.
- Ensures accountability: Progress will be reviewed at the Viksit Bharat Young
 Leaders Dialogue slated for 2026.



29 NATIONAL COOPERATIVE POLICY 2025

Theme: "Sahakar se Samriddhi" (Prosperity through Cooperation)

To mark the **United Nations-designated International Year of Cooperatives (IYC) 2025,** India unveiled the **National Cooperation Policy 2025** to transform the cooperative sector **into a people-driven economic force**.



OVERVIEW

- Launched on 24 July 2025 by the Ministry of Cooperation under the leadership of Amit Shah.
- The policy envisions a 20-year roadmap (2025–2045) to rejuvenate India's cooperative movement, aligned with the national goal of Viksit Bharat @ 2047.
- Anchored in the motto "Sahakar se Samriddhi", it seeks to promote inclusive growth, rural empowerment, and economic democratization through cooperative institutions.

KEY OBJECTIVES

- Triple the cooperative sector's GDP contribution by 2034.
- Establish one cooperative society in every village within 5 years.
- Create 2 lakh new Multi-Purpose PACS (Primary Agricultural Credit Societies) by February 2026.
- Activate participation of 50 crore citizens, especially youth, women, and marginalized communities.



SIX PILLARS OF THE POLICY

STRENGTHENING INSTITUTIONAL INFRASTRUCTURE

• Revamp PACS, dairy, housing, fisheries, and credit cooperatives.

VIBRANCY AND INCLUSIVITY

• Ensure mass participation and gender/youth inclusivity.

DIGITAL & PROFESSIONAL GOVERNANCE

Digitization of 65,000+ PACS, capacity building, and e-governance.

DIVERSIFICATION OF COOPERATIVE FUNCTIONS

 Expansion into tourism, taxi services, insurance, ethanol production, real estate, etc.

LEGAL AND FINANCIAL EMPOWERMENT

• Establish National Cooperative Tribunal and National Cooperative Bank.

STATE COOPERATION POLICIES

• All states to draft aligned cooperative policies by January 31, 2026.



SAHAKAR SE SAMRIDDHI – SIGNIFICANCE

This slogan embodies the vision of using the cooperative model to empower **rural and semi-urban economies**.

INCLUSIVE ECONOMIC GROWTH:

 Empowers marginalized farmers, artisans, and women through collective ownership.



• Ex: **Amul Dairy Cooperative**, a model of farmer-owned success, boosts rural income and self-reliance.

RURAL DEVELOPMENT:

- PACS are being modernized and made multipurpose (as part of 63,000 PACS digitization).
- Ex: Cooperative sugar factories in Maharashtra support not just farmers but also local employment.

BOOST TO AGRICULTURE AND ALLIED SECTORS:

- Helps in procurement, storage, and marketing, reducing farmers' dependency on middlemen.
- Ex: **IFFCO**, the world's largest fertilizer cooperative, benefits 5.5 crore Indian farmers.

SELF-RELIANCE (ATMANIRBHAR BHARAT):

- Enables community-based production and consumption.
- Supports One District One Product (ODOP) through cooperative enterprises.

DEMOCRATIC PARTICIPATION:

- Cooperatives are based on **democratic governance**, encouraging grassroots participation.
- Ex: Women Self-Help Groups (SHGs) under **DAY-NRLM** often evolve into cooperative federations.

CHALLENGES OF INDIA'S COOPERATIVE SECTOR

Despite the potential, the cooperative movement faces **systemic**, **structural**, **and governance**-related challenges.

POLITICAL INTERFERENCE:

- Local politicians often control cooperatives, leading to corruption and favoritism.
- Ex: Alleged scams in **sugar and credit cooperatives** in Maharashtra.

GOVERNANCE DEFICIT:

- Many cooperatives lack transparency, audits, and elections.
- Over 20,000 cooperatives are dormant due to mismanagement (Ministry of Cooperation data, 2023).



LACK OF PROFESSIONALISM:

- Cooperatives are often run by amateurs, lacking modern managerial skills and market orientation.
- Limited training opportunities for rural cooperative members.

LIMITED ACCESS TO TECHNOLOGY:

- Poor digital infrastructure, especially among PACS, leads to inefficient operations.
- Only 20% PACS are computerized as of early 2024.



CREDIT CONSTRAINTS:

- Cooperative banks suffer from NPAs, dual regulation (RBI and State Registrar), and low capital adequacy.
- Ex: PMC Bank crisis showed vulnerabilities in cooperative banking.

INTER-STATE COORDINATION GAPS:

Inconsistent cooperative laws across states hinder the growth of Multi-State
 Cooperative Societies.



URBAN NEGLECT:

• Cooperative movement remains **rural-centric** with limited models for urban employment or housing.

WAY FORWARD & REFORMS NEEDED

LEGAL REFORMS:

• Fast-track **amendments in MSCS Act**, PACS Model By-laws, and promote a Uniform Cooperative Code.

CAPACITY BUILDING:

- Establish dedicated training institutions in every state.
- Promote young professionals in cooperative governance.

COOPERATIVE STARTUPS:

• Encourage **youth-led cooperatives** in new sectors like clean energy, logistics, fintech, etc.

INTEGRATION WITH E-NAM & AGRI STACK:

• Digitally empower agri-cooperatives for better price discovery and direct marketing.

FINANCIAL INCLUSION:

• Expand the reach of cooperative credit to **underserved regions** like Northeast and tribal belts.





30 ART FORMS

The artists of Sohrai, Pattachitra and Patua art forms participated in the second edition of Kala Utsav 2025 at Rashtrapati Bhavan.



WHAT IS KALA UTSAV?

- An annual festival held at school, district, state, and national levels, showcasing students' skills in music, dance, visual arts, theatre, storytelling, folk arts, and crafts.
- Aligned with the National Education Policy (NEP) 2020, promoting arts and cultural education as essential for holistic learning and creative development.
- Features the Pratibha Samvardhan residential camp—a transformative 10-day immersion for top winners involving workshops, mentorship, cultural visits, and peer exchange.

SIGNIFICANCE OF KALA UTSAV

PRESERVES AND PROMOTES CULTURAL HERITAGE

 Encourages students to perform regional art forms, fostering understanding of India's linguistic and cultural diversity.

EMPOWERS TRIBAL AND UNDERSERVED COMMUNITIES

• Tribal forms such as Sohrai gain mainstream recognition, helping bridge gaps in representation.



SUPPORTS NEP VISION OF HOLISTIC EDUCATION

 Integrates arts into school curriculum, developing creativity, cognitive abilities, and cultural values.

PLATFORM FOR YOUNG TALENT

 Pratibha Samvardhan offers national exposure, expert mentoring, and opportunities beyond academic achievements.

STRENGTHENS NATIONAL INTEGRATION

 Promotes Ek Bharat, Shreshtha Bharat by bringing students from diverse states together under a common artistic platform

PATTACHITRA PAINTINGS

The term Pattachitra (pata = cloth, chitra = picture in Sanskrit) refers to ancient cloth-based scroll painting traditions from Odisha and, in a distinct form, West Bengal.

In **Odisha**, the art flourished **around Puri** and is closely **associated with Jagannath** culture.



THEMES

It showcases narrative depictions of **Hindu gods, goddesses, and religious stories**, especially episodes from the life of **Jagannath, Krishna, and other deities**.

TECHNIQUE

- They are painted on **cloth** or sometimes on **palm leaves**.
- The cloth is treated with a **chalk-gum base**, polished, and then painted with natural **mineral and vegetable pigments**.



Artists are called Chitrakars.

STYLE FEATURES

- The paintings are recognized with **bold**, **black outlines**, **rich colors** (mainly red, yellow, blue, green, and white), and elaborate **decorative borders**.
- Their figures are stylized like almond-shaped eyes, elaborate ornamentation, and compact composition.

ABOUT SOHRA PAINTINGS

It is a **traditional tribal mural art** form originating in **Jharkhand**, primarily among the **Santhal**, **Oraon**, **Munda**, **Sadan**, and **Ho tribes**.

It is mainly practiced in **Hazaribagh district** but also in parts of **Bihar**, **Odisha**, and **West Bengal**.

Traditionally, women of the household paint on the mud walls of their homes during the holiday of Sohrai, which falls just a day after the Hindu celebration of Diwali.



THEMES

• They are dominated by **natural and agricultural motifs**—animals (hens, buffaloes, horses, wild animals), birds, lotuses, trees, and scenes of village life. Fertility, nature, and harmony are central themes.

TECHNIQUE

- The art is traditionally **created by women** using their **fingers, twigs, or brushes**.
- Colors are naturally sourced—from clay, charcoal, rice paste, and leaves.
- Distinct **clay varieties** (kali matti, charak matti, dudhi matti, lal matti, pili matti) are used for hues.

STYLES

- Vibrant, lively designs with bold red and black lines.
- Red symbolizes ancestral blood while black denotes death or Shiva.
- The paintings are **often matriarchal**, with pregnant figures and animals depicted with their young.



PATUA PAINTING

- It is a traditional folk-art form from the state of West Bengal.
- It is also practiced in **Bihar**, **Jharkhand**, **Odisha**, **and parts of Bangladesh**.

STYLE

 They are primarily created on fabric scrolls, which are subsequently utilized by itinerant storytellers to convey stories from Hindu mythology, folklore, and current events.



THEMES

- They frequently depict Hindu deities and mythical stories.
- Some paintings depict current events or social topics as well.

TECHNIQUE USED

- Traditional Patua paintings are distinguished by their vibrant colours, clean lines, and dynamic compositions.
- The painters produce their paintings with natural hues like turmeric, indigo, and red ochre.
- The scrolls are often painted on **coarse cotton cloth**, then **reinforced on the back** with fabric from ancient saris.

PATUA ARTWORK IS CLASSIFIED INTO TWO TYPES:

SCROLL PAINTINGS:

- These are **traditional** Patua paintings used to **tell stories**.
- They are often long and narrow, reaching lengths of several feet.



PANEL PAINTINGS:

- These are **smaller**, more **individual** paintings that are usually **hung or framed**.
- They show various subjects, including deities, animals, and ordinary scenes.





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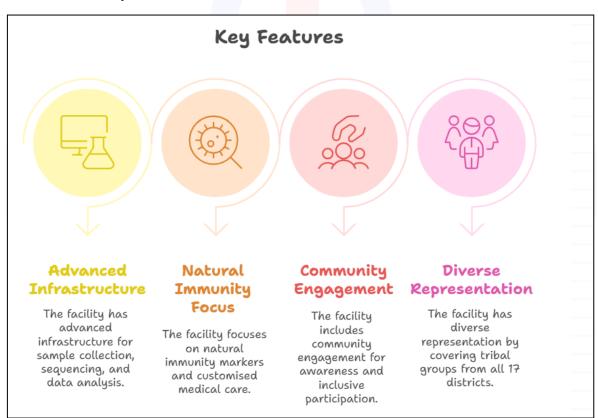
31 INI

INDIA'S FIRST TRIBAL GENOME SEQUENCING PROJECT

Gujarat has launched **India's first Tribal Genome Sequencing Project** to map the **genetic profile of tribal populations**.

GUJARAT'S TRIBAL GENOME SEQUENCING PROJECT

- It aims to identify genetic health risks like **Sickle Cell Disease**, **Thalassemia** and provide precision healthcare tailored to the needs of tribal populations.
- It seeks to bridge the gap between scientific advancements and tribal traditions, fostering a healthier future for these communities.
- Managed by the Gujarat Biotechnology Research Centre (GBRC).
- The genomes of 2,000 individuals from tribal communities across 17 districts will be sequenced.



GENOME SEQUENCING

- It is the process of determining the exact order of **nucleotide** bases (A, C, G, T) in an individual's **DNA**.
- It reveals a person's genetic makeup, providing insights into traits, health risks, and potential disorders.



TYPES:

- Whole Genome Sequencing (WGS) maps the entire DNA sequence for comprehensive genetic information.
- Partial Genome Sequencing focuses on specific genome parts.
- Targeted Gene Sequencing sequences specific genes.

APPLICATIONS:

- Helps identify disease-causing mutations, understand the genetic basis of diseases, and discover new drug targets.
- Enables **personalized medicine** by **pred**icting individual responses to drugs, allowing for **optimized drug selection**.
- Used in crop improvement to identify genes linked to disease resistance, high yield, and better nutrition, aiding the development of improved crop varieties.

DIFFERENCE BETWEEN GENOME SEQUENCING AND GENOME EDITING

Aspect	Genome Sequencing	Genome Editing
Definition	Reading or decoding the complete DNA sequence of an organism.	Making specific, targeted changes (insert, delete, modify) to DNA.
Purpose	To understand genetic makeup, mutations, and variations.	To correct, alter or enhance traits or genes for therapeutic or agricultural use.
Technology Used	Next Generation Sequencing (NGS), Sanger Sequencing. CRISPR-Cas9, TALENS, ZF	
Type of Intervention	Non-interventional (only analysis).	Interventional (direct manipulation of genes).
Outcome Genetic profile, ancestry mapping, disease prediction.		Gene correction, modified crops, gene therapies.
Application Examples	Human Genome Project, diagnosing cancer mutations, tracing COVID-19 variants.	Treating sickle cell disease, developing pest-resistant crops like BT cotton.
Ethical Concerns	Privacy of genetic data, misuse of personal health info.	Germline editing concerns, designer babies, ecological risks in agriculture.



32 HENLEY PASSPORT INDEX

India ranks 77th in the Henley Passport Index 2025 (Q2), up from 85th in January 2025 (Q1), showing a modest but notable improvement in global mobility for Indian citizens.

WHAT IS HENELEY PASSPORT?

The Henley Passport Index ranks 199 global passports (covers 227 travel destinations) based on the number of destinations their holders can travel to without a visa, with data sourced from the International Air Transport Association (IATA).

- It is compiled and published by Henley & Partners, a global citizenship and residence advisory firm.
- The Henley Passport Index ranks 199 passports based on visa-free access to 227 destinations, using International Air Transport Association (IATA) data and updated quarterly.
- IATA is the trade body for 300 airlines, covering 83% of global air traffic. Its headquarters is in **Montreal, Canada.**

HENLEY PASSPORT INDEX 2025: INDIA AT A GLANCE

- According to the July 2025 edition of the Henley Passport Index, Indian passport holders now enjoy visa-free or visa-on-arrival access to 59 countries and territories.
- Consequently, India's passport has climbed eight places, ascending from 85th in early 2025 to 77th, marking the most significant leap among all passports in this edition.
- Indian passport holders now enjoy visa-free or visa-on-arrival access to 59
 destinations, up from 57 in 2024. The Philippines and Sri Lanka are the two
 newly added visa-free destinations for Indians.
- Singapore ranks first with access to 193 destinations, followed by Japan and South Korea with 190.

AS PER UK-BASED ONLINE PLATFORM "COMPARE THE MARKET," 2024 DATA:

- Most Expensive Passports: Mexico, Australia, and the USA
- Cheapest Passports: UAE, India, and Hungary.
- India's passport stands out for offering the best "cost per year" value, making it highly economical compared to other countries.



33 INDIA-MALDIVES RELATIONS

During Prime Minister of India official visit to the Maldives, 8 key bilateral agreements were signed, covering digital payments (UPI), debt relief, fisheries, infrastructure, and a ₹4,850 crore Line of Credit, marking a renewed phase in India-Maldives relations.



INDIA-MALDIVES RELATIONS:

India and Maldives share deep-rooted **ethnic**, **linguistic**, **cultural**, **and commercial ties**, reinforced by proximity in the Indian Ocean. Maldives is a critical part of India's "Neighborhood" and **SAGAR** (**Security and Growth for All in the Region**) policy frameworks.

RECENT OUTCOMES:

8 KEY AGREEMENTS:

- Debt Relief: India agreed to reduce Maldives' annual repayment burden by 40%.
- ₹4,850 Cr Line of Credit: For infrastructure aligned with Maldives' development goals.
- **UPI and Ru-Pay Integration:** To expand **digital connectivity** and promote **local currency trade**.
- **Fisheries Cooperation:** Strengthened ties in livelihood and marine economy.



- **3,300 Housing Units:** Handover of Indian-financed social housing in Hulhumalé.
- Security Assistance: India gifted 72 vehicles and defence equipment.
- Climate & Disaster Partnership: Joint cooperation on resilience and green energy.
- FTA and Investment Talks: Agreed to advance discussions on Bilateral Investment Treaty and Free Trade Agreement.

HISTORICAL BACKGROUND

ANCIENT CULTURAL LINKS:

- Maldives was a Buddhist nation for over 1,400 years, from around the 3rd century BCE to 12th century CE.
- Buddhism was introduced from India, especially during the Mauryan period under Ashoka, who promoted Buddhism across the Indian Ocean.

ARCHAEOLOGICAL EVIDENCE:

- Ruins of Buddhist stupas, monasteries, and statues (e.g., in Fua Mulaku, Thoddoo, Gan Island) show Indian influence.
- Sanskrit inscriptions and palm-leaf manuscripts suggest ancient Indo-Maldivian intellectual exchanges.

ISLAMIC CONVERSION (12TH CENTURY):

 Maldives converted to Islam around 1153 CE, but the Buddhist past remains foundational to its early cultural development.

KEY MILESTONES & AGREEMENTS

Year	Event / Agreement
1965	India recognized Maldives' independence; diplomatic ties established.
1976	Maritime Boundary Agreement signed.
1981	Trade Agreement signed; India became Maldives' largest trade partner.
1988	Operation Cactus – India averted a coup.
2006	Education and Cultural Cooperation Agreement signed.



2009	India gifted patrol boats and radars.	
2011	Comprehensive Security Dialogue began.	
2018	Solih reaffirms "India First" policy.	
2020	India funds Greater Malé Connectivity Project (GMCP).	
2023	Coastal surveillance radars, Dornier aircraft handed over.	
2024–25	New President Mohamed Muizzu demands Indian troop withdrawal .	
2025	India to replace troops with civilian technical personnel by May 2025 (as per recent agree <mark>ment</mark>).	

POLITICAL & DIPLOMATIC RELATIONS

INDIA FIRST VS. CHINA TILT:

- Former President Ibrahim Solih (2018–2023) promoted strong India ties.
- Mohamed Muizzu (2023–present) leans toward China; criticized for "India Out" campaign.

TROOP CONTROVERSY:

- Around 75 Indian military personnel were stationed for humanitarian and maritime operations.
- Muizzu administration demanded withdrawal → India agreed to replace troops with civilians by May 2025.

CHINA FACTOR:

- Maldives joined China's Belt and Road Initiative (BRI).
- However, debt concerns have led Maldives to maintain strategic balance between India and China.

ECONOMIC RELATIONS

TRADE & INVESTMENT:

- India is Maldives' 4th largest trade partner (after UAE, China, Singapore).
- Exports: Drugs, rice, construction materials.
- India's investments in tourism, housing, and infrastructure.



CURRENCY SWAP AGREEMENT (2019):

• India extended \$400 million currency swap under SAARC framework.

LINE OF CREDIT:

- India offered over \$1.4 billion assistance in 2018.
- Greater Malé Connectivity Project (GMCP):
 - o India-funded (\$500M), 6.7 km bridge linking capital to Villingli, Gulhifalhu and Thilafushi (industrial island).
 - o Largest infrastructure project in Maldives.



STRATEGIC & DEFENCE RELATIONS

OPERATION CACTUS (1988):

• India intervened within 16 hours to thwart a coup by mercenaries.

DEFENCE ASSETS & EXERCISES:

- Gifts: 2 Dhruv helicopters, Fast Attack Craft, Dornier aircraft.
- Coastal Surveillance Radar Systems installed by India.
- Joint exercises:
 - Ekuverin (Army)
 - Dosti (Coast Guard + Maldives + Sri Lanka)
 - Ekatha (joint capacity-building)



SECURITY INFRASTRUCTURE:

India has helped build the Maldivian National Defence Force (MNDF) HQ,
 Coastal Police Academy, and training centres.

PEOPLE-TO-PEOPLE, HEALTH & CULTURE

EDUCATION & HEALTH:

- Scholarships to Maldivian students under ICCR and SAARC fellowship schemes.
- India is a preferred **medical tourism destination** for Maldivians.
- India's Covid-19 Vaccine Maitri provided 100,000 Covishield doses to Maldives.

CULTURAL DIPLOMACY:

- Indian Cultural Centre in Malé promotes yoga, Hindi, classical music.
- India celebrates International Yoga Day in Maldives annually.

RECENT DEVELOPMENTS (2023–2025)

Year	Event
2023	Mohamed Muizzu elected; begins "India Out" campaign.
2024	India agrees to troop withdrawal (to be completed by May 2025).
2024	Chinese survey ships dock in Maldives, raising Indian security concerns.
2025	GMCP construction underway with Indian grant.
2025	Ongoing debate in Maldives about balancing India and China relations.

CHALLENGES IN BILATERAL RELATIONS

CHINA'S INFLUENCE:

- Maldives' strategic location makes it a key node in China's String of Pearls.
- Debt diplomacy and infrastructure investments by China.

INTERNAL POLITICS:

 Maldivian politics oscillates between India-friendly and India-skeptical regimes.



"INDIA OUT" CAMPAIGN:

- A politically motivated movement alleging Indian military interference.
- India emphasized non-interference and development partnership.

VKEY FACTS FOR UPSC

- Maldives: 99% water and 1% land crucial to India's maritime security.
- Operation Cactus (1988) model case of rapid Indian military deployment.
- Maldives is part of India's Neighborhood First and SAGAR (Security and Growth for All in the Region) strategy.
- India is the largest development partner of Maldives.
- Strategic location: Near India's Lakshadweep islands, close to major sea lanes in the Indian Ocean.

CONCLUSION

India–Maldives relations are a blend of deep historical ties (Buddhism, trade), strategic imperatives, and current geopolitical challenges. While cultural and civilizational bonds remain strong, India must maintain a balance between strategic assertiveness and diplomatic sensitivity in its Indian Ocean policy.

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INDIA MARKS 1,000 YEARS OF RAJENDRA CHOLA I'S NAVAL EXPEDITION (2025)

CONTEXT (2025 NEWS):

- The Government of India is commemorating 1,000 years of Rajendra Chola I's successful naval expedition to Southeast Asia (c.1025 CE).
- Celebrations include:
 - o Cultural events in Tamil Nadu and Southeast Asia.
 - Restoration of Chola-era inscriptions, temples, and maritime heritage projects.
 - o India-ASEAN cultural dialogues and maritime diplomacy exhibitions.



HISTORICAL BACKGROUND: RAJENDRA CHOLA I'S SOUTHEAST ASIA EXPEDITION

WHO WAS RAJENDRA CHOLA I?

- Son of Rajaraja Chola I.
- Reign: 1014-1044 CE.
- Capital: Gangaikonda Cholapuram.
- Title: "Gangaikonda Chola" for conquering up to the Ganges.

THE 1025 CE NAVAL EXPEDITION:

- Rajendra launched a massive naval campaign across the Bay of Bengal.
- Target: Srivijaya Empire (present-day Indonesia, Malaysia, and southern Thailand).



• Objective: Control maritime trade routes and assert Tamil naval supremacy.

KEY OUTCOMES:

- Conquered key Srivijayan ports such as Kadaram (modern Kedah, Malaysia).
- Brought back symbolic waters of the Ganga and established Gangaikonda Cholapuram.
- Demonstrated Indian naval strength in the pre-modern world.
- Strengthened India-Southeast Asia cultural and trade ties.

KEY CULTURAL & HISTORICAL SIGNIFICANCE

MARITIME DIPLOMACY:

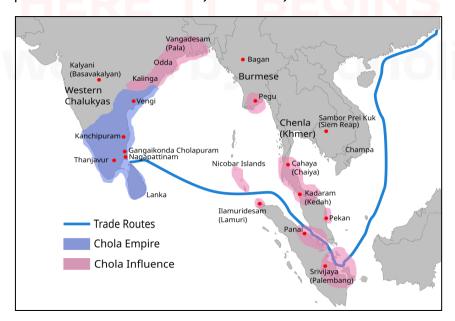
- A rare example of a successful ancient Indian blue-water naval expedition.
- Asserted India's influence across the Bay of Bengal and Southeast Asia.

CULTURAL EXCHANGE:

- Spread of Tamil culture, temple architecture, scripts, and Saivism in Southeast Asia.
- Influence visible in **Angkor Wat (Cambodia)**, **Bali temples (Indonesia)**, and **Thai royal traditions**.

ARCHITECTURE & INSCRIPTIONS:

- Temples like Brihadisvara (Tanjore) and Gangaikonda Cholapuram celebrate these victories.
- Inscriptions found in Tamil Nadu, Indonesia, and Thailand.





2025 COMMEMORATIVE ACTIVITIES BY INDIAN GOVERNMENT

UNESCO HERITAGE PUSH:

 Advocacy to recognize Chola naval heritage under UNESCO's "Maritime Silk Routes" initiative.

INDIA-ASEAN CULTURAL FESTIVAL:

- Events in Thailand, Malaysia, Indonesia, Cambodia, and Vietnam.
- Joint cultural programs showcasing Chola-Southeast Asia connections.

DIGITAL ARCHIVES & EXHIBITIONS:

- Virtual museum on Chola maritime power.
- Restoration of Chola inscriptions and artifacts.

HERITAGE CIRCUITS:

- Launch of "Chola Maritime Trail" linking ports from Tamil Nadu to Southeast Asia.
- Tourism boost through maritime heritage circuits.

ACADEMIC COLLABORATIONS:

- Joint research with **ASEAN universities** on Chola naval history.
- Workshops on Chola inscriptions, bronze art, maritime archaeology.

INDIA-SOUTHEAST ASIA (ASEAN) CONNECTION

- This celebration is part of India's Act East Policy and India-ASEAN strategic partnership.
- Focus on:
 - Cultural diplomacy.
 - o Maritime security cooperation.
 - Enhancing people-to-people ties.

GANGAIKONDA CHOLAPURAM TEMPLE

LOCATION:

- Situated in Ariyalur district, Tamil Nadu.
- The temple is part of the town **Gangaikonda Cholapuram**, which was the **capital of the Chola Empire** for over 250 years after 1025 CE.



HISTORICAL BACKGROUND:

Feature	Description	
Built by	Rajendra Chola I (son of Rajaraja Chola I)	
Year of Completion	Around 1035 CE	
Purpose	To commemorate Chola victory in the Ganges region and Southeast Asia naval expedition	
Symbolism	Named "Gangaikonda" = "The one who brought the Ganga"	
Capital shift	From Thanjavur to Gangaikonda Cholapuram	

ARCHITECTURAL FEATURES:

STYLE:

 Dravidian style temple, following the Chola architectural tradition but refined and more ornate than the Brihadisvara Temple at Thanjavur.

VIMANA (TOWER):

- 55 meters tall slightly shorter but more **graceful and curvilinear** than the one at Thanjavur.
- Made of granite.

SCULPTURAL EXCELLENCE:

- Features intricate carvings and bronze-like stone sculptures.
- Images of Siva, Parvati, Ardhanarishvara, Nataraja, and various Shaivite deities.

LINGAM:

• Houses a massive Shiva Lingam, one of the largest in South India (13 feet tall).

LION WELL:

• A well-guarded by a lion statue, symbolizing Chola strength and ritual purity.

TEMPLE TANK (CHOLAGANGA):

• Built using water brought from the **Ganges**, symbolizing **spiritual unification**.



POLITICAL AND SYMBOLIC IMPORTANCE:

- Legitimacy and conquest: Built to celebrate military victories including the Ganga expedition and Southeast Asian naval campaign (Kadaram).
- Imperial capital: Temple was part of the **new Chola capital city**, reflecting imperial ambition and state-building.

UNESCO WORLD HERITAGE TAG:

- Part of the "Great Living Chola Temples" (along with Brihadisvara Temple, Thanjavur and Airavatesvara Temple, Darasuram).
- Declared as UNESCO World Heritage Site in 1987.

RELIGIOUS AND CULTURAL SIGNIFICANCE:

- Dedicated to Lord Shiva deity worshipped as Gangaikondacholeeswarar.
- Temple represents:
 - Fusion of spirituality and sovereignty.
 - Chola patronage of Shaivism.
 - Integration of Vedic and Tamil cultures.

KEY FACTS:

Торіс	Fact	
Dynasty	Chola	
Builder	Rajendra Chola I	
Year	~1035 CE	
Style	Dravidian	
Deity	Shiva (Gangaikondacholeeswarar)	
Capital shift	From Thanjavur to Gangaikonda Cholapuram	
UNESCO Tag	1987	
Vimana Height	~55 meters	
Temple Complex	Sculptures, tank (Cholaganga), lion well, Nandi mandapam	



ELECTION SYSTEM UNDER RAJENDRA CHOLA I (C. 1014–1044 CE)

CONTEXT: THE CHOLA ADMINISTRATIVE STRUCTURE

- The **Chola Empire** had a highly **centralized monarchy** at the top but encouraged **decentralized local self-governance** at the village level.
- The **Uttaramerur inscriptions** (originally from earlier Chola rulers, continued under Rajendra Chola I) give a detailed account of the **village-level democratic** institutions.

THREE-TIER ADMINISTRATIVE SYSTEM

- Central Administration King and his ministers.
- Provincial Administration Mandalam and Valanadu units.
- Local Self-Government Village assemblies (known as Sabhas or Ur), particularly developed in Brahmadeya villages.

LOCAL SELF-GOVERNANCE: THE HEART OF THE SYSTEM

TYPES OF VILLAGE ASSEMBLIES:

Assembly	Composition	Description
Ur	Common people	Assembly of all adult male members in non- Brahmin villages
Sabha (or Mahasabha)	Brahmins	Brahmin-dominated villages (Brahmadeya)
Nagaram	Merchants	Urban commercial settlements

ELECTIONS UNDER THE CHOLAS

KUDAVOLAI SYSTEM (PALM-LEAF BALLOT SYSTEM)

- "Kudam" = pot, "Olai" = palm leaf.
- A ballot system using pots and palm leaves was followed to select local representatives.
- Palm-leaf slips with names were **drawn from a pot (lottery method)** by a neutral priest or elder in public view.



ELIGIBILITY CRITERIA FOR CANDIDATES (FROM UTTARAMERUR INSCRIPTION):

Criteria	Description	
Age	35–70 years	
Education	Must know Vedas and administrative rules	
Property	Must own land worth tax of 1/4 veli (~1.5 acres)	
Morality	Must be of good character , not guilty of sins , no past punishments	
Disqualification	Gambling, drinking, incest, thieving, or supporting criminals	
Experience Must have knowledge of manuscripts (Granthas) and pase administration		

COMMITTEES (VARIYAMS) - FUNCTIONAL GOVERNANCE UNITS:

Name	Function
Garden Committee (Tottavariyam)	Maintenance of village gardens
Tank Committee (Eri Variyam)	Maintenance of water tanks and irrigation
Panchavaraiyam	Local judicial committee
Dharmavariyam	Religious and charitable duties
Annual Committee (Samvatsara Variyam)	General administrative and revenue duties
Gold Committee	Handling temple jewelry and donations

Each committee member held office for **1 year** and could not be **re-elected for 3 years** thereafter.

ACCOUNTABILITY AND TRANSPARENCY

ANNUAL AUDIT:

• Committees were **subject to audits**; if found guilty of mismanagement, members were **removed or penalized**.

PUBLIC PARTICIPATION:

• Assembly decisions were made in **open meetings**.



 Written records (inscriptions) were maintained and displayed on temple walls or stone slabs.

ROLE OF RAJENDRA CHOLA I

- Though the system was institutionalized under Rajaraja Chola I, Rajendra Chola I continued and expanded this tradition.
- He **strengthened village autonomy** even as he built a vast empire through military expeditions.
- Encouraged **temple-centric administration** temples served as both **economic hubs and record-keepers**.

SIGNIFICANCE OF THE CHOLA ELECTION SYSTEM

Aspect	Significance	
Historical	One of the earliest documented election systems in the world	
Governance	High degree of decentralization with strong accountability mechanisms	
Cultural	Temples as public institutions for administration, education, and welfare	
Democratic Roots	Proto-democratic system with ballot-based voting and eligibility screening	

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35 ATAL PENSION YOJANA (APY)

The Atal Pension Yojana (APY) has crossed 8 crore enrolments as it celebrates its 10th anniversary, with 39 lakh new subscribers added in the current financial year.



ATAL PENSION YOJANA (APY):

It is a government-backed pension scheme aimed at providing old-age income security to workers in the unorganized sector.

It ensures a guaranteed monthly pension post-retirement and is administered by the Pension Fund Regulatory and Development Authority (PFRDA).

SCHEME OVERVIEW:

- Launched On: 9th May 2015
- Administered By: PFRDA
- Target Group: Workers in the unorganized sector.
- Nature: Voluntary and contributory.
- Pension Range: ₹1,000 to ₹5,000/month after age 60.
- Guarantee: Central Government guarantees the minimum pension.

OBJECTIVE OF APY:

- To build a universal social security system.
- To provide financial stability during old age.
- To encourage long-term savings among informal sector workers.



ELIGIBILITY CRITERIA:

- Indian citizen, aged between 18-40 years.
- Must hold a savings or post office bank account.
- Aadhaar and mobile number optional but recommended for updates.
- Government co-contribution only for non-taxpayers and those not under other statutory social security schemes.

Achievements So Far



Over 8 crore

enrolments since 2015

39 lakh new subscribers added in FY 2024-25 alone

Extensive coverage of informal workers, including daily-wage labourers, drivers, domestic helpers, and small traders.

KEY FEATURES OF APY:

- Guaranteed Minimum Pension: Assured pension of ₹1,000–₹5,000 based on contribution and entry age.
- Flexible Contribution Mode: Contributions can be made monthly,
 quarterly, or half-yearly via auto-debit from a savings account.
- Government Co-Contribution (2015–2020): GoI contributed 50% of subscriber's input (up to ₹1,000/year) for eligible early joiners.
- Return Assurance: If actual returns fall short of the guaranteed pension, the shortfall is covered by GoI.



 Spouse and Nominee Benefits: Pension continues to spouse after subscriber's death and corpus is transferred to nominee on death of both.

• Exit Rules:

- Full pension starts at age 60 and early exit allowed with limited refund.
- In case of death before 60, spouse can continue or withdraw corpus.



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36 PM VIKSIT BHARAT ROZGAR YOJANA (PM-VBRY)

The PM Viksit Bharat Rozgar Yojana (PM-VBRY) will come into effect from 1st August 2025 to incentivize large-scale job creation, replacing the Employment Linked Incentive (ELI) Scheme.



- A national employment-linked incentive scheme to promote job creation in formal sectors, especially manufacturing, as part of the Viksit Bharat initiative.
- Launch Date: Effective from 1st August 2025
- Administered By: Ministry of Labor and Employment
- Total Outlay: ₹99,446 crore
- Implementation Period: 2025–2027
- Target: Over 3.5 crore new jobs, including 1.92 crore first-time workers

OBJECTIVE:

- To promote inclusive and sustainable job creation.
- To incentivize employers for hiring new workers, especially in **manufacturing**.
- To support **first-time employees** entering the formal workforce.



KEY FEATURES OF PM-VBRY:

PART A: INCENTIVE FOR FIRST-TIME EMPLOYEES

Eligibility: New EPFO-registered employees with monthly salaries up to ₹1 lakh.

- Incentive: One-month EPF wage (up to ₹15,000), paid in two instalments:
- 1st instalment: After 6 months of service
- **2nd instalment:** After 12 months and completion of financial literacy training
- Saving Habit Promotion: Part of the incentive will be locked in a deposit account for future withdrawal.

PART B: INCENTIVE FOR EMPLOYERS

Focus Sector: All sectors, with special focus on manufacturing

EMPLOYER ELIGIBILITY:

- EPFO-registered entities hiring:
- 2 or more additional employees (if existing staff <50)
- **5 or more** (if staff ≥50)

WAGE-BASED INCENTIVE (PER EMPLOYEE PER MONTH):

- ₹1,000 for wages ≤ ₹10,000
- ₹2,000 for ₹10,001–₹20,000
- ₹3,000 for ₹20,001–₹1,00,000
- Tenure: 2 years for all sectors; extended to 4 years for manufacturing

PAYMENT MECHANISM:

- **First-Time Employees:** Paid via DBT using Aadhar Bridge Payment System (ABPS).
- Employers: Direct payment to PAN-linked bank accounts.



37 FRANCE RECOGNISE PALESTINE STATEHOOD

France has formally announced its decision to recognize Palestinian statehood, becoming the first G7 country to do so amid escalating humanitarian concerns in Gaza.



CONCEPT AND MEANING

- Recognition of Palestine means diplomatic acknowledgment of Palestine as a sovereign state with rights under international law.
- It affirms Palestine's right to self-determination, independence, and membership in global institutions like the UN.

COUNTRIES RECOGNISING PALESTINE:

- As of now, 144 of 193 <u>UN member</u> states recognise Palestine, including India, Russia, China, and most of the Global South.
- Recent recognitions include Spain, Ireland, Norway, and now France, who seek to revive the two-state solution framework.
- Sweden, Cyprus, and several former Eastern Bloc EU nations also extend recognition.

WHY IS FRANCE RECOGNISING?

 Humanitarian Crisis in Gaza: Over 2 million Gazans face man-made starvation, prompting calls for justice and statehood recognition.



- **Two-State Solution Revival:** France aims to keep the peace process alive, especially before hosting a UN conference with Saudi Arabia.
- **Strategic Timing:** The decision precedes France's presentation at the upcoming UN General Assembly, adding multilateral weight.

ABOUT PALESTINE:

- Region: Middle East.
- Territories: West Bank, Gaza Strip, East Jerusalem (disputed).
- Neighbors: Israel (east and west), Egypt (southwest), Jordan (east), Mediterranean Sea.

HISTORICAL BACKGROUND:

- **Pre-1947:** Under British Mandate since WWI and Balfour Declaration (1917) supported a Jewish homeland.
- 1947 Partition Plan: UN proposed two states one Jewish, one Arab and only Israel was realized.
- 1948–67 Wars: Led to Israel occupying large areas including the West Bank and Gaza.
- **1988:** Palestine declared independence in Algiers and later gained UN observer status in 2012.
- **2024–25 Developments:** <u>ICJ</u> deemed Israeli occupation unlawful and Palestine granted expanded rights at the UN.

KEY FEATURES:

- Governed by the Palestinian Authority (West Bank) and Hamas (Gaza).
- Frequent hostilities with Israel over land, resources, and governance.
- Supports self-determination, inalienable rights, and peace under Resolution 242 (1967).

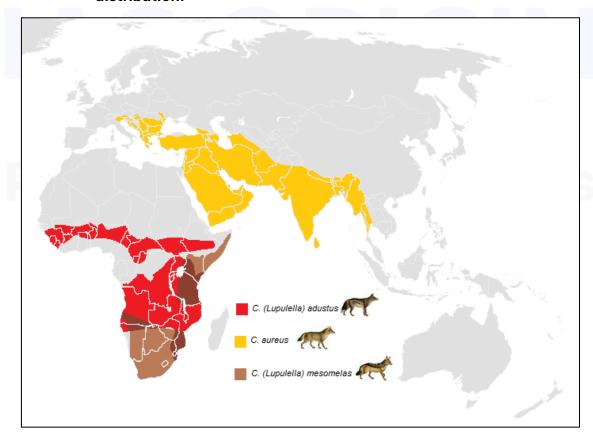


38 GOLDEN JACKAL

Recently, an extensive citizen science study has estimated that Kerala is home to a population of 20,000 to 30,000 Golden Jackals.

GOLDEN JACKAL

- It is also known as the common jackal, is a medium-sized wolf-like canid.
- It is strictly nocturnal in areas inhabited by humans, but may be partly diurnal elsewhere.
- They dig caverns for shelter, or use crevices in rocks, or caverns that were dug by other animals.
 - They live in mated pairs and are strictly monogamous.
 - They are omnivores.
- These animals are abundant in valleys and along rivers and their tributaries, canals, lakes, and seashores, but are rare in foothills and low mountains.
- Found in North and East Africa, Southeastern Europe and South Asia to Burma.
 - They are quite widespread across India. Right from the Himalayan foothills, down to the Western Ghats, the Golden Jackal has a wide distribution.





CONSERVATION STATUS

• IUCN: Least Concern

• CITES: Appendix III

• Wildlife Protection Act, 1972: Schedule I



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39 GAVRI FESTIVAL

Every year, the Bhil community of Mewar embarks on a 40-day ritual called Gavri.



LOCATION AND COMMUNITIES:

- Celebrated mainly in the Mewar region of southern Rajasthan: Udaipur,
 Rajsamand, Chittorgarh, and nearby districts.
- Organized by the **Bhil tribal community**, one of the oldest indigenous tribes of India.

TIME OF CELEBRATION:

- Begins just after Raksha Bandhan (August–September).
- Lasts for about 40 days.

RELIGIOUS AND MYTHOLOGICAL BACKGROUND:

- Goddess Gavri (a form of Parvati/Durga) is the central deity.
- The festival is a **folk re-enactment of stories from Shiva Purana, Ramayana**, and **local legends**.
- Involves worship of Lord Shiva and Goddess Parvati for protection, prosperity, and rain.
- Reflects **nature worship** and tribal connection with forests, water, and fertility.



RITUALS AND FOLK PERFORMANCES:

DANCE DRAMA:

- Travelling troupes perform **open-air street theatre** in villages, often in the evenings.
- Plays are based on **folk mythology, historical legends**, and **social themes**.
- Common characters include:
 - o **Bhomiaji** (local deity),
 - Bhil warriors,
 - Demons, Brahmins, and royalty.

ALL-MALE PERFORMERS:

- Even female characters are played by men.
- Performers wear traditional wooden masks, colorful costumes, and body paint.

RITUAL ABSTINENCE:

- Participants follow strict rules: no alcohol, no meat, celibacy, and barefoot travel.
- They live an **austere and spiritual life** during the 40-day period.

NO STAGE, NO SCRIPT:

- Performances are improvised, using folk memory and oral traditions.
- Drums, flutes, and chants accompany performances.

THEMES AND SYMBOLISM:

Theme	Description
Nature Worship	Devotion to forest deities, rivers, and ecological harmony
Social Critique	Satirical takes on greed, corruption, patriarchy, and injustice
Spiritual Renewal	Cleansing of body and soul through rituals and community
	bonding
Cultural	Passing of oral folklore and tribal traditions to next
Preservation	generations



40 BRIHADISVARA TEMPLE

Recently, the Prime Minister of India prayed at the Brihadisvara Temple, Gangaikonda Cholapuram in Tamil Nadu and described it as a "deeply spiritual experience."



BRIHADISVARA TEMPLE

- It is also known as Peruvudaiyar Kovil is located in Thanjavur, Tamil Nadu.
- It is dedicated to Lord Shiva represented as a huge 'Lingam'.
- The temple was built around 1010 AD by the Chola king Rajaraja Chola I.
- It is revered as one of the three 'Great Living Chola Temples,' alongside the Gangaikondacholeeswaram Temple and Airavatesvara Temple, and is a proud UNESCO World Heritage Site.
- It has been regarded as a 'landmark in the evolution of building art in south India' and its vimana as a 'touchstone of Indian architecture as a whole'.

BKEY FEATURES OF BRIHADISVARA TEMPLE

- It is a Dravidian architecture styled temple.
- The temple's pyramidal vimana stands more than 200 feet (60 meters) high and represents Mount Meru, the mythical mountain at the center of the universe in Hindu cosmology.
- The sikhara, a cupolic dome, is octagonal and rests on a single block of granite, a square of 7.8 m weighing 80 tons.



- One of the temple's most captivating features is the grand statue of Nandi, the sacred bull of Lord Shiva.
- Its inscriptions and frescoes narrate the tale of the rise and decline of the city's fortunes.



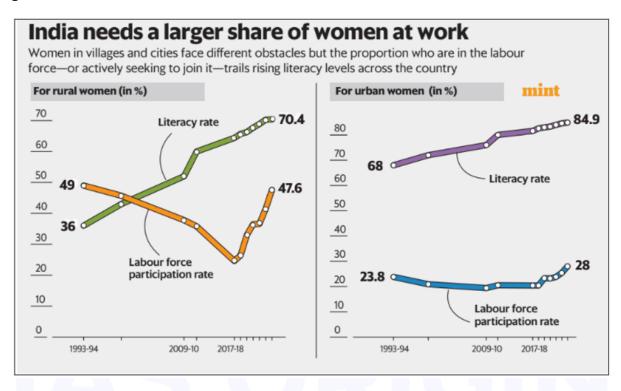
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FEMALE LABOUR FORCE PARTICIPATION PARADOX IN INDIA

Despite India's high female literacy especially in urban areas labor force participation among women remains low. PLFS 2023–24 highlights a stark rural-urban disconnect and a widening literacy–employment gap, raising concerns over inclusive economic growth.



KEY TRENDS (PLFS 2023–24 & WORLD BANK 2024)

- Urban female literacy: 84.9%, yet FLFPR: 28%
- Rural literacy-FLFPR gap: ~22%, Urban gap: ~57%
- National female literacy: 74.6%, with a 33-point employment gap
- India lies between developed (40-point gap) and developing (25-point gap) nations

CAUSES:

- **Urban Job Inflexibility:** Most urban jobs, especially in services, lack flexibility for family responsibilities, deterring women's sustained participation.
- Mobility and Safety Concerns: Unsafe public spaces and lack of reliable transport limit women's access to formal work environments in cities.
- **Informality and Job Insecurity:** A majority of urban women work in informal sectors with low pay and no benefits, leading to job exit during life events.



- <u>Childcare Deficit</u> in Cities: With 61.3% urban households being nuclear (NFHS-5), lack of crèches forces women to prioritize caregiving over employment.
- Post-Maternity Workforce Dropout: Absence of re-entry programs or part-time opportunities leads to permanent dropout post-childbirth, creating a "care penalty."

WHY RURAL FLFPR IS HIGHER THAN URBAN?

- Flexible Work Options in Agriculture: Agriculture and self-employment offer women work close to home with adaptable hours, improving participation.
- **Community-Based Childcare:** Extended families and rural kinship networks help women manage both work and caregiving responsibilities.
- Work Out of Necessity: Rural women work due to economic compulsion, not autonomy, contributing to higher, though less empowered, FLFPR.
- **Gender Norms Around Shared Labour:** In rural settings, work by women—even if unpaid or low-paid is more culturally normalized and expected.
- **Crisis-Driven Employment:** Post-COVID <u>rural employment</u> saw a temporary rise due to loss of urban jobs and return <u>migration</u>, not durable inclusion.

SHOCKING TREND: DECLINING FLFPR DESPITE PROGRESS

2005-2019 PARADOX

- Fertility rates dropped, education rose but FLFPR fell.
- Higher incomes reinforced gendered roles man as earner, woman as homemaker.

POST-COVID SPIKE IN RURAL FLFPR

- Driven by distress employment and fallback strategies, not systemic support.
- Urban FLFPR still stagnant despite digitization and economic revival.

IMPLICATIONS FOR ECONOMY AND EQUITY:

- Loss of Demographic Dividend: Underutilization of half the population weakens India's long-term productivity and growth potential.
- **Stunted Social Development:** Low female employment slows gains in child health, nutrition, education, and gender equity.
- **Urban Middle-Class Retreat:** Higher incomes reinforce traditional norms, causing women to withdraw from jobs when money isn't essential.

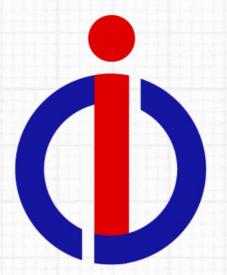


- Global Competitiveness Hit: India's low FLFPR limits its ability to compete with economies like Bangladesh or Vietnam on inclusive growth.
- **Equity and Justice Crisis:** Economic exclusion reinforces patriarchal structures and denies women equal access to opportunity and dignity.

WAY FORWARD:

- **Public Childcare Infrastructure**: Expand anganwadis and urban crèches to support working mothers in both urban and peri-urban areas.
- **Flexible Employment Models:** Promote part-time work, gig platforms, and remote work to align with women's time and caregiving constraints.
- **Legislative Reform for Dignity at Work:** Ensure strong implementation of POSH Act and equal pay laws to create safe, respectful workplaces.
- **Norms Transformation Campaigns:** Launch nationwide efforts to normalize shared caregiving roles and women's right to work.
- **Urban Infrastructure for Inclusion:** Invest in safe transport, women-only toilets, and creche-linked workplaces to make cities gender-inclusive.

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