# 'Two Hundred and Fifty-Thousand Democracies: A Review of Village Government in India' **Working Paper**

Policy Research Working Paper released by the World Bank Group analyzed the role of 73rd Constitutional Amendment in shaping India's democratic trajectory.

Constitution (Seventy-third Amendment) Act, 1992 enshrined certain basic and essential features of Panchayati Raj Institutions (PRIs) in the Constitution to impart certainty, continuity, and strength to them.

#### **Key Findings of the Paper**

- Lack of Funds: PRIs rely almost entirely on grants made by state and national authorities.
- Lack of Functionaries: Scarcity of Panchayat Secretaries. e.g., on average, 0.67 Panchayat Secretaries per Gram Panchayat, with the number falling to 0.33 in states like Uttar Pradesh.
- Recentralisation Process: Autonomy of local governments are being eroded due to MIS-based beneficiary selection, digital tracking of beneficiaries, etc.
- Effects of reservation: Reservation for women and castes changed profile of households that produce candidates.

#### **Key Recommendations**

- Build local tax capacity: Build better property records, give Panchayats more freedom to levy taxes, etc.
- Strengthen Gram Sabhas: Increase their frequency and expand their powers to encompass critical areas such as village planning and the selection of beneficiaries for public programs.

#### **About 73rd Constitutional Amendment**

It added Part IX to the Constitution covering provisions from Article 243 to 243-0.

#### **Salient Features**

- Gram Sabha: Permanent unit consisting of all the persons registered in the electoral rolls relating to a village.
- 3-tiers of PRIs: At the village level, intermediate level, and district level.
  - However, the states with population below 20 Lakh may not have the intermediate level.
- Reservation: Provision of reservation of seats for SCs and STs at every level of Panchayat in proportion to their population.
  - ⊕ It also provides for 1/3<sup>rd</sup> reservation of seats for women.

SHG-Panchayat linkages: Creating more convergence and coordination between the two would also improve the functioning of Panchayats and balance their decisions more towards the needs of women.

# "Raising Ambition, Accelerating Action: Towards Enhanced NDCs for Forests" report

Report published by UN Environment Programme (UNEP) reveals major gaps in forest protection, management, and restoration in current Nationally Determined Contributions (NDCs).

NDCs embody efforts by each country to reduce national emissions and adapt to impacts of climate change. They are updated every five years, starting from 2020.

#### **Key Findings**

- An average of 5.6 billion tonnes of CO2 equivalent was emitted from tropical deforestation per year between 2019 and 2023 for top 20 countries.
- Only 8 countries include explicit quantified targets to reduce deforestation and all fall short of global ambition to halt deforestation by 2030.
- Only 38% of Parties to UNFCCC include measures to reduce conversion of forests and other ecosystems.

#### **Drivers of Deforestation**

- Agriculture: It is a major cause of deforestation. e.g., Deforestation rates in Indonesia are linked to fluctuations in market prices of oil palm.
- Land-use policies: Lack of effective and enforced land-use policies. e.g., High deforestation rates in Brazilian Amazon attributed to reduction in environmental policies.

#### **Key Recommendations**

- NDC targets should be designed with inclusivity, considering diverse needs and perspectives of Indigenous Peoples and local communities.
- **Emphasize on retaining primary forests** rather than replacing them with planted forests.

#### International Agreements to prevent deforestation

- REDD+ mechanism: Efforts to reduce emissions from deforestation and forest degradation (REDD+) adopted at UNFCCC COP13.
- New York Declaration on Forests: Aimed to halve deforestation by 2020.
- Glasgow Leaders' Declaration on Forests and Land Use: To halt and reverse forest loss and land degradation by 2030.
- Bonn Challenge: Global goal to bring 150 million hectares of deforested and degraded land into restoration by 2020, and 350 million hectares by 2030.
- Strengthening, enhancing & aligning forest-based measures mentioned in NDCs and clearly defined national policies.







## Study on Urbanization and regional climate change-linked warming of Indian cities

The study based on data from 141 prominent Indian cities showcases that cities are vulnerable to the **compounding effects of both climate change and urbanization.** 

#### **Key Findings:**

- Urbanization alone has led to an overall 60% enhancement in warming in Indian cities, with eastern Tier-II cities leading the way.
  - Urban Heat Island (UHI) effect: The altered thermodynamic, aerodynamic properties of the cities tend to trap more heat, making cities warmer than their rural and suburban counterparts.
- Cities are experiencing enhanced warming almost double—relative to the entire Indian domain.
- While urbanization and associated energy demands contribute to emissions and climate change, cities are on frontlines of climate change impacts due to dense population and infrastructure.

#### **Urbanisation driving warming in Indian Cities**

- Reduction in vegetation and green spaces.
- Concrete and asphalt store heat during day and release it during night, preventing evaporative cooling that typically occurs in natural landscapes.
- Increased human activities, vehicular emissions, and industrial output contribute to higher levels of greenhouse gases, further amplifying the heat.

#### **Way Forward:**

- Pace and course of urbanisation must be carefully planned using strong scientific information.
- ➤ Comprehensive city-level climate-action plans are needed for sustainable urban development.
- Strategic implementation of policies targeting climate resilience.

#### Steps taken by India:

- National Mission on Sustainable Habitat (NMSH) 2021-2030: Promote low-carbon urban growth and build resilience of cities.
- 'Ease of Living Index' (launched in 2018) to improve urban systems to enhance the livability of cities.
- Climate Smart Cities Assessment Framework (CSCAF) 2.0:
  will facilitate cities to adopt, implement and disseminate best practices.

## United Nations proclaimed 2025 as the International Year of Quantum Science and Technology

Year 2025 was chosen as it recognizes 100 years since the initial development of quantum mechanics.

Quantum Science and Technology refers to the study and application of the principles of quantum mechanics, which governs the behaviour of matter and energy at the atomic and subatomic scales.

#### Foundational concepts of quantum mechanics

- Wave-particle duality: Extremely small objects have characteristics of both particles (tiny pieces of matter) and waves (disturbance or variation that transfers energy).
- **Quantum superposition:** In quantum mechanics, a particle or system can exist in a superposition of multiple states simultaneously, until it is measured.
- **Entanglement:** Two particles are linked up in a certain way, affects one another and remain linked irrespective of the distance.
- **Uncertainty Principle:** We cannot know both the position and speed of a particle, such as photon or electron, with perfect accuracy at the same time.

#### **Applications**

- Industry and infrastructure: Drives technological innovation and secures financial infrastructures through quantum communication.
- ▶ Health & well-being: Quantum photonics is advancing medical imaging and diagnosis and Quantum chemistry is supporting development of new vaccines and drugs.
- Climate action: More energy-efficient and affordable solar cells, low-emission LED light sources and improving accuracy of long-term climate models.

#### India's Initiatives in the field of Quantum Technology

- National Quantum Mission (2023): Aims to seed, nurture, and scale up scientific and industrial R&D and create a vibrant & innovative ecosystem in Quantum Technology.
- Quantum Enabled Science & Technology (QuEST): A research program to build quantum capabilities.
- Quantum Computing Applications Lab (QCAL): To accelerate quantum computing-led research and development and enable new scientific discoveries.







# Centre releases Rs 1.39 trillion instalment of tax devolution to states

This cumulative amount comprises the **regular monthly devolution** along with an **additional instalment** to accelerate development and capital spending in states.

▶ Interim Budget 2024-25 has a provision of Rs. 12,19,783 crore towards devolution of taxes to States.

#### **Devolution of Taxes to States**

- ➤ Article 270 of the Constitution provides for distribution of net tax proceeds collected by the Union government (corporation tax, personal income tax, central GST, etc.) between Union and states.
  - This devolution is based on the recommendation of the Finance Commission (FC) constituted every five years as per Article 280.
  - This divisible pool does not include cess and surcharge levied by the Centre.

#### **Basis of Devolution**

- ➤ Vertical Devolution: Share of states from divisible pool which presently stands at 41% based on the recommendations of the 15<sup>th</sup> FC.
- ➤ Horizontal Devolution: It refers to distribution among the states from the share allocated to states based on various criteria.
  - As per 15<sup>th</sup> FC, the assigned criteria with their weights are: Income Distance (45%), Area (15%), Population, 2011 (15%), Demographic performance (12.5), Forest and Ecology (10%), and Tax and fiscal efforts (2.5%).

#### **Grants to States**

- Post Devolution Revenue Deficit Grant: It is provided under Article 275 of the Constitution as per FC recommendations.
- ➤ Sector-Specific Grants: 15<sup>th</sup> FC has recommended such grant to states for 8 sectors including health, education, agricultural reforms etc.
- ➤ State-Specific Grants: 15<sup>th</sup> FC recommended these in areas of social needs, administrative governance and infrastructure, water and sanitation, preservation of culture and historical monuments, high-cost physical infrastructure and tourism.

## Karnataka government's temporary ban on a film triggers Freedom of Artistic Expression debate

Karnataka government issued a temporary ban of 2 weeks on release of a Hindi film to prevent any potential religious discord and preserve communal harmony in the state.

▶ Freedom of artistic expression is the principle that an artist should be unrestrained by law or convention in the making of his or her art.

#### Freedom of Artistic Expression in India

- Supreme Court in Rangarajan v. P. Jagjivan Ram Case (1989) held that movies enjoy the rights guaranteed under Article 19(1)(a) [Right to Freedom of Speech and Expression].
- Provisions for freedom of opinion and expression are also enshrined under the Universal Declaration of Human Rights (UDHR) as well as International Covenant on Civil and Political Rights (ICCPR), to which India is signatory.

Why do films stand on a slightly different plane from other forms of expression? (SC observations in Rangarajan v. P. Jagjivan Ram Case)

- ➤ The combination of act and speech, sight and sound in semi darkness of the theatre with elimination of all distracting ideas will have a strong impact on the minds of the viewers and can affect emotions.
- ➤ Therefore, it cannot be equated with other modes of communication and censorship by prior constraint is, therefore, not only desirable but also necessary.

#### Also in News



#### **Snow Leopard (Panthera Uncia)**

Research has found that **Snow leopards also eat plants** despite being carnivorous.

#### **About Snow Leopards**

- Habitat: Inhabits mountains of Central and South Asia with 12 snow leopard range countries including India.
  - ⊕ Currently, there are around 718 snow leopards in India.
  - Their distribution coincides closely with distribution of their principal prey, ibex and blue sheep (bharal).
- Snow leopard is the state animal of Himachal Pradesh and Ladakh.
- Characteristics: Have short forelimbs and long hind limbs for traversing in rugged mountainous environments.
- Conservation Status:
  - **OUCN:** Vulnerable
  - CITES: Appendix I
  - Wildlife (Protection) Act, 1972: Schedule I



#### **Notified Disasters**

Heatwave events have reopened discussions on **inclusion of heatwave as notified disasters** under the Disaster Management (DM) Act, 2005

#### **About Notified Disasters**

- ▶ DM Act 2005 provides for allocation and utilization of resources from the National Disaster Response Fund (NDRF) and State Disaster Response Fund (SDRF).
  - Money in these funds can be utilized only for response and management of notified disasters.
- Presently, there are 12 Notified Disasters including Cyclone, drought, earthquake, fire, flood, tsunami, hailstorm, landslide, avalanche, cloud burst, pest attack, frost & cold wave.
  - In 2020, government treated Covid-19 as notified disaster as a special one-time dispensation.









#### **Quality Council of India (QCI)**

Quality Council of India (QCI) celebrates World Accreditation Day, a global initiative to promote the value of accreditation (formal recognition of meeting established quality standards).

#### **About QCI**

- QCI is a non-profit organization registered under the Societies Registration Act XXI of 1860.
- It was established as a National body for Accreditation in 1996.
- QCI was set up through a Public-Private Partnership (PPP) model as an independent autonomous organization.
- The Department of Industrial Policy and Promotion designated as the nodal point for all matters connected with quality and QCI.



#### **JIMEX**

Bilateral Japan - India Maritime Exercise (JIMEX) 2024 commenced at Yokosuka in Japan.

This is the eighth edition, since its inception in 2012.



#### **Multi-Drug Resistant Pathogens**

Researchers from IIT Madras and NASA are studying multi-drug resistant (MDR) pathogens, particularly Enterobacter bugandensis, on the International Space Station (ISS).

- It is a prevalent nosocomial (hospital acquired infection) pathogen found on surface within ISS.
- Enterobacter species are on the WHO priority list for developing new antimicrobials.

#### Multi-Drug Resistant (MDR) Pathogens

- Pathogens (bacteria, virus, fungi, parasites, etc. that causes disease) that have become resistant to antimicrobial drugs like antibiotics, antifungal etc.
- They occur either naturally through genetic changes or may get accelerated due to the misuse or overuse of antimicrobials.



#### **Prevention of Arms Race in Outer Space** (PAROS)

In a recent joint statement, BRICS Ministers for Foreign Affairs emphasized the need to discuss a legal multilateral instrument on PAROS.

#### **About PAROS Treaty**

- ▶ In 2008, draft treaty submitted to the Conference on Disarmament aims to refrain State Parties from placing objects carrying any type of weapon into orbit, installing weapons on celestial bodies, and threatening to use force against objects in outer space.
- It would complement and reaffirm the importance of the 1967 **Outer Space Treaty.**



#### **Mars Reconnaissance Orbiter**

High-Resolution Imaging Science Experiment camera onboard NA-SA's Mars Reconnaissance Orbiter (MRO) captured images of a mysterious pit on the side of an ancient volcano on Mars.

#### About MRO

- Launched in 2005, it is the second longest-lived spacecraft to orbit Mars.
- Objective: To gain better knowledge of distribution and history of water on Mars.
- It's telecommunications systems provide a crucial service for Martian spacecraft, serving as the first link in a communications bridge back to Earth.



#### Vidyut Rakshak

Indian Army launched Vidyut Rakshak Monitoring System as part of its modernisation drive.

#### About Vidyut Rakshak

- Vidyut Rakshak is an Internet of Things (IoT)-enabled integrated generator monitoring, protection and control system.
  - IoT is a network of interrelated devices that connect and exchange data with other IoT devices and the cloud.
- Indigenously developed by the Army Design Bureau (ADB).
- It integrates and automates operation of multiple generators from a single system remotely.

#### **Places in News**



#### Malawi (Capital: Lilongwe)

Malawi Vice President was killed in a plane crash in the Chikangawa mountain range.

#### **Political Features**

- It is a landlocked country in southeastern Africa.
- Neighbouring countries: Mozambique (East and South), Zambia (West), and Tanzania (North).

### **Geographical Features**

- Relief: 4 basic regions Great African Rift Valley, central plateaus, the highlands, and the isolated mountains.
- Major Lakes: Lake Malawi and Lake Chilwa.
- Major Rivers: Rukuru, Dwangwa, Lilongwe, Bua, etc.
- Major Ranges: Mt. Mulanje, Mt. Nakodzwe, Mt. Dzole, Mt. Namasile, etc.
- Highest Peak: Sapitwa peak (in Mt. Mulanje)





























AHMEDABAD

BENGALURU

BHOPAL

CHANDIGARH

**GUWAHATI** 

**HYDERABAD** 

**JODHPUR** 

LUCKNOW

PRAYAGRAJ

PUNE

