

# CROSS & CLIMB ROHTAK

## School of Research Based Learning & Competition

### Current Affairs - 03 March 2025

#### MISHTI SCHEME



Gujarat has emerged as the national leader in mangrove afforestation, covering 19,020 hectares in just two years under the Centre's 'MISHTI' scheme.

- The Mangrove Initiative for Shoreline Habitats & Tangible Incomes (MISHTI) scheme is a government-led initiative aimed at increasing the mangrove cover along the coastline and on salt pan lands.
  - "MISHTI" comes after India joined the 'Mangrove Alliance for Climate' launched during the 27th Conference of Parties (COP27) to the UNFCCC held in Egypt in November 2022.
  - It was launched by the Ministry of Environment, Forest & Climate Change on the occasion of World Environment Day, i.e., 5th June 2023.
  - MISHTI envisages the restoration/reforestation of mangroves covering approximately 540 sq.km., spreading across 9 states and 3 union territories for a period of five years commencing 2023-24 onwards.
  - The scheme is primarily focused on the Sundarbans delta, Hooghly Estuary in West Bengal, India, and other bay parts of the country, but also includes other wetlands in the country.
  - Under the MISHTI scheme, the government is providing financial assistance to local communities to undertake mangrove plantation activities.
  - The scheme also involves awareness campaigns to educate people about the importance of mangroves and their role in protecting the environment.
  - The plantation activities are carried out in a participatory manner, involving local communities and NGOs, to ensure sustainability and community ownership of the initiative.

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#### AADHAAR GOOD GOVERNANCE PORTAL



Recently, the central government launched Aadhaar Good Governance portal to streamline approval process for Aadhaar authentication requests.

- It is aimed at **streamlining the approval process** for Aadhaar authentication requests.
- It was launched by the **Ministry of Electronics and Information Technology (MeitY)**.
- The platform follows the recent amendments to the **Aadhaar Authentication for Good Governance (Social Welfare, Innovation, Knowledge) Rules, 2025**, under the Aadhaar Act of 2016.
- The new rules are **designed to support good governance** and improve the delivery of various welfare services and benefits.
- This portal is part of ongoing efforts to simplify processes, enhance service delivery, and improve the overall ease of living for citizens.
- The portal shall work as a resource rich guide, and **offer detailed SOP** for authentication seeking entities on how to apply and how to onboard for Aadhaar authentication.
- Face Authentication may also be integrated in the customer facing apps of private entities, which will enable anytime anywhere, authentication.

#### **Key Facts about Aadhaar:**

- It is a **12-digit unique identification number** issued by the Unique Identification Authority of India (UIDAI) to every individual resident of India.
- It serves as proof of identity, which is linked to the individual's biometric and demographic information.
- The **Aadhaar programme was launched in 2009** by the UIDAI with the goal of providing a unique and verifiable identity for every resident of India.
- It is now mandatory for a number of government services and is also being used by private companies for identification purposes.

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### TRANSFORMING INDIAN CITIES - CHALLENGES AND THE ROAD AHEAD

#### Urban Challenges in India:

- **Rapid urbanization:**
  - According to the **2011 Census**, census towns increased from 1,362 in 2001 to 3,894 in 2011, contributing to nearly one-third of the urban growth during that decade.
  - By **2036**, more than 600 million people will live in Indian cities, which are not ready for this growth.
- **Pollution crisis:**
  - **Overview:** 42 Indian cities are among the top 50 most polluted cities in the world. Nearly 50% of 603 rivers in India are polluted.
  - **Major causes:** Vehicle emissions, industrial waste, and construction dust.
  - **Impact:** Respiratory diseases, economic losses (\$95 billion annually), and deteriorating quality of life.
- **Climate change and environmental degradation:**
  - **Overview:** Extreme weather events (heatwaves, floods) are becoming frequent.
  - **Causes:** Lack of green infrastructure worsens urban heat and flooding.
- **Water and waste mismanagement:**
  - Major rivers like the **Yamuna and Ganga** are heavily contaminated, making them unsafe for consumption and harmful for marine biodiversity.
  - **Less than one-fifth of waste is treated in India.**

#### Solutions and Policy Interventions:

- **Solutions:**
  - **Transforming Indian cities** will require an overhaul of planning, strengthened governance, and sustainable financing.

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- With action on these fronts, India can **develop liveable, resilient, and economically vibrant cities** that can become global attractions.
- **The first step** must be to notify census towns as urban areas in their own right. States must take the lead.
- **Other solutions:**
  - **Green spaces** (like parks and green roofs), modern drainage systems, and early warning systems.
  - Need for comprehensive **waste and water management**
  - **Focus areas:**
    - Cities as growth hubs, creative redevelopment, and sanitation improvements.
    - Cities must compete to achieve sustainability through transit investments and pollution control.

### Conclusion:

- The fate of Indian cities depends on **proactive planning and governance reforms**.
- Without urgent action, cities will face worsening pollution, congestion, and insecurity.
- The coming decade is crucial for making Indian cities smart, green, and globally competitive.

### BLUE GHOST MISSION



**Firefly Aerospace's Blue Ghost lunar lander has successfully touched down on the Moon's Mare Crisium region after a nerve-wracking powered descent.**

- Blue Ghost lander, developed by **Firefly Aerospace**, is carrying 10 NASA payloads as part of the **Commercial Lunar Payload Services (CLPS) program**, which aims to stimulate lunar commerce through private-sector competition.
- The Blue Ghost mission aims to enhance our **understanding of the lunar environment**.

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- The lander carries a vacuum, called **Lunar PlanetVac (LPV)**, to collect lunar soil samples and a drill capable of measuring temperatures up to 10 feet (3 meters) below the surface.

### Objectives of Blue Ghost Mission:

- The lander will **study heat flow from the Moon's interior**, helping scientists understand its thermal evolution.
- It will analyse plume-surface interactions to improve landing techniques by examining how lunar regolith reacts to the lander's engine plumes.
- By collecting data on the Moon's magnetic and electric fields, researchers will gain insights into its geological history.
- The lander will operate for **approximately 14 Earth days**, equivalent to one complete lunar day, conducting scientific investigations and technology demonstrations.

### THE STUDENT AND THE THREE LANGUAGE DEBATE

- **Language policy in education has always been a contentious issue in India**, and the debate surrounding the three-language formula is no exception.
- **While the National Education Policy (NEP) advocates the introduction of a third language** to enhance cognitive ability, mobility for employment, and national integration, **several issues arise with this approach**.
- These include the **practical difficulties of implementation**, the **prioritisation of foundational learning**, and the potential political ramifications of language imposition.
- **A careful assessment of these factors is necessary** to ensure that educational reforms genuinely serve students rather than becoming political battlegrounds.

### Practical Challenges in Implementation of Three Language Policy

- The implementation of a three-language formula **raises serious logistical concerns**. Public schools already face teacher shortages and infrastructure deficits.

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- **Recruiting competent teachers** for a third language, particularly if multiple language options are offered, would strain educational budgets further.
- With Tamil Nadu already spending a significant percentage of its education budget on teacher salaries, **diverting funds to accommodate third-language instruction could reduce resources available for critical infrastructure improvements.**

### Political Dimensions and the Way Forward

- The debate over language education is also **influenced by political factors.**
- **Tamil Nadu has historically resisted the imposition of Hindi**, viewing it as a threat to linguistic and cultural identity.
- However, **the political stance on language policy should not come at the cost of students' career prospects.**
- **A rigid opposition to Hindi could disadvantage students** if national employment and educational opportunities begin favouring Hindi proficiency.
- **A balanced approach would be to introduce Hindi as an optional third language at the middle-school level**, starting in district headquarters and expanding based on demand.
- This **gradual implementation would allow flexibility** without burdening all students unnecessarily.
- **The focus should remain on improving English proficiency and overall educational quality** while ensuring that language policy decisions are made in students' best interests.

### Conclusion

- **The three-language formula, while well-intentioned, presents more challenges than benefits**, especially for public school students.
- Rather than imposing a third language, **efforts should be directed toward enhancing teaching quality, improving literacy levels, and ensuring students gain proficiency in languages that offer the best career opportunities.**
- **A pragmatic approach, rather than a rigid stance**, will ensure that Tamil Nadu's students are not left behind in an increasingly competitive world.

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### REVIEW OF PLI SCHEME

- The **Production-Linked Incentive (PLI)** scheme, introduced in April 2020, aims to enhance India's manufacturing capabilities and attract global companies to set up production facilities in the country.
- Covering 14 sectors, the scheme incentivizes incremental sales to drive manufacturing growth.
- However, five years into its implementation, **the government is considering modifications for PLI 2.0**, linking incentives to additional metrics such as **domestic value addition and incremental exports**.

### Overview of the PLI Scheme

- The PLI scheme was launched with the following key objectives:
  - Boost domestic manufacturing and reduce import dependence.
  - Attract **original equipment manufacturers (OEMs)** and contract manufacturers.
  - Encourage investment in **high-tech sectors like electronics, semiconductors, pharmaceuticals, and specialty steel**.
  - Enhance **India's participation in global supply chains**.
  - Create employment and promote skill development in manufacturing.
- The scheme has seen **notable success** in sectors such as mobile phones, pharmaceuticals, and food processing. However, in certain sectors like **IT hardware, advanced chemicals, textiles, and specialty steel**, progress has been slower than expected.

### Conclusion

The PLI scheme has set **India on the path to becoming a global manufacturing hub**, but challenges remain in **scaling up, increasing local value addition, and making domestic firms globally competitive**. As discussions on **PLI 2.0** progress, the government aims to introduce reforms that **prioritize exports, component localization, and MSME support**.

With the right policy interventions, India can **bridge gaps in the supply chain, improve competitiveness, and establish itself as a leader in global manufacturing**.

### RUSHIKULYA RIVER



Forest officials recently restricted entry along a 5-km stretch from Gokharakuda to Bateswar near the Rushikulya river mouth in Ganjam district to protect Olive Ridley turtle eggs.

- It is one of **Odisha's prominent rivers**, flowing primarily through the districts of Kandhamal, Ganjam, and Boudh.

#### Course:

- **Originating** at an elevation of approximately 1000 meters from the **Daringbadi hills** in the **Eastern Ghats**, often referred to as the '**Kashmir of Odisha**' for its scenic beauty, the river travels a length of around **165 kilometers** before **emptying into the Bay of Bengal** near the town of Ganjam.
- Unlike many other rivers, the Rushikulya River does **not form a delta at its mouth**, and it flows directly into the Bay of Bengal.
- The Rushikulya River basin encompasses a catchment area of roughly 7500 sq.km.
- **Tributaries:** Its tributaries are the **Baghua**, the **Dhanei** and the **Badanadi**,

#### Olive Ridley Turtle Nesting Site (Rushikulya Beach):

- It is one of the most famous attractions near the river is the **Olive Ridley Turtle Nesting Site**, located on the coast **where the Rushikulya River meets the Bay of Bengal**.
- Each year, between January and March, **thousands of Olive Ridley Turtles** come to the shores to **lay their eggs**, creating a spectacular natural event known as **Arribada**.

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#### KAWAL TIGER RESERVE



- It is located in the **Telangana** State along the **banks of river Godavari**, forming part of the Deccan peninsula-central highlands.
- The reserve is nestled in the **Sahyadri Mountain Ranges (Western Ghats)**.
- The Government of India declared Kawal Wildlife Sanctuary a Tiger Reserve in

**Rivers:** The reserve is the catchment for the **rivers Godavari and Kadam**, which flow towards the **south of the sanctuary**.

- The reserve is situated at the southernmost tip of the Central Indian Tiger Landscape, having linkages with the Tadoba-Andhari (Maharashtra) and Indravati (Chhattisgarh) tiger reserves.

**Habitat:** It has diverse habitats comprising dense forests, grasslands, open areas, rivers, streams and water bodies.

**Vegetation:** Southern Tropical Dry Deciduous Forest.

**Flora:** It consists of teak along with Bamboo and other species like *Anogeissus latifolia*, *Mitragyna parviflora*, *Terminalia crenulata*, *Terminalia arjuna*, *Boswellia serrata*,

**Fauna:** The major wild animals include: nilgai, chousinga, chinkara, black buck, sambar, spotted deer, wild dog, wolf, jackal, fox, tiger, leopard, and the jungle cat.