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DAILY EDITORIAL ANALYSIS

TOPIC

SAFEGUARDING FOR INDIA'S CARBON MARKET FOR SUSTAINABLE FUTURE

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Context

- The **growth-driven model of development**, rooted in the Industrial Revolution, has already pushed **planetary boundaries beyond safe limits**.
- There is a need **to decouple economic growth from environmental harm**, and nations need to expand their economies while reducing ecological footprints.

About Carbon Market

- A carbon market allows entities to **buy and sell carbon credits**—each representing a ton of carbon dioxide reduced or removed from the atmosphere.
 - It creates financial incentives for industries to reduce emissions and invest in cleaner technologies.
- It signifies a certified reduction or removal of greenhouse gases, measured in **CO₂-equivalents**, generated through activities like **renewable energy projects**, **reforestation**, **agroforestry**, **or biochar production**.
 - These credits can be **bought by firms** to offset emissions as they transition toward cleaner operations.
- Globally, around **175–180 million credits** are retired annually, mostly from **renewable and nature-based projects**.

India and Carbon Market

- India's carbon market is being developed under the **Carbon Credit Trading Scheme (CCTS)**, enabled by the **Energy Conservation (Amendment) Act, 2022**.
- It includes both compliance and voluntary mechanisms, aligning with global standards under Article 6 of the Paris Agreement.

Institutional Framework

- National Designated Authority (MoEF&CC): It is a 21-member body, which aims to oversee the market's governance. It ensures transparency, accountability, and alignment with international climate commitments.
- Bureau of Energy Efficiency (BEE): It plays a key role in operationalizing the market, setting emission intensity targets and monitoring compliance.
- India's Carbon Credit Trading Scheme (CCTS): It aims to set emission-intensity benchmarks for energy-intensive sectors while enabling voluntary offsets.
 - A **national registry and trading platform** aim to oversee transactions, supported by draft methodologies for **biomass**, **compressed biogas**, and **low-emission rice cultivation**.

Key Features of India's Carbon Market

- **Emission Intensity Targets:** Legally binding targets have been set for most of the industrial units across sectors like aluminium, cement, pulp and paper, and chlor-alkali.
- Sectoral Coverage: The market initially covers eight carbon-intensive sectors, including iron and steel, petrochemicals, and textiles.
- **Trading Mechanism:** Entities that exceed their emission reduction targets can sell surplus credits to those falling short, promoting cost-effective decarbonization.
- Global Alignment: India's updated NDCs aim to reduce emission intensity by 45% by 2030 from 2005 levels.
 - The carbon market is a cornerstone of this strategy, helping India meet its climate goals while supporting economic growth.

Challenges and Safeguards

- Land Rights and Consent: Many carbon offset projects rely on land use changes, such as afforestation or soil carbon sequestration.
 - These projects risk dispossession and exploitation, without securing land rights and informed consent from local communities



- The CCTS framework has limited attention to land rights and revenue equity.
- **Benefit Sharing:** Carbon revenues need to be equitably distributed. Marginalized groups, especially smallholder farmers and tribal communities, should not be left out of the financial gains.
- **Transparency and Accountability:** Past global experiences show that opaque carbon markets can lead to greenwashing, where companies claim environmental benefits without real impact.
- Risk of Exploitation: Carbon projects risk exploitation when information asymmetry and power imbalance prevail. In India, farmers and tribal groups often lack awareness or bargaining power, leading to opaque contracts and unfair benefit-sharing.
- **Environmental Integrity:** Projects need to genuinely reduce emissions, not just shift them elsewhere. This requires rigorous monitoring, verification, and enforcement.

Case Study

- The Kenyan experience of the carbon project serves as a critical warning: if land rights, consent, and equitable distribution are ignored, India's carbon market could reproduce extractive patterns under a green veneer.
- Projects involving afforestation, reforestation, or agricultural offsets often intersect with customary land use.
 - These initiatives may disrupt grazing, fuelwood access, and livelihoods, particularly for tribal and marginalized communities without robust consent and benefit-sharing.

Toward Fair and Transparent Carbon Markets

- Overregulation may stifle innovation, but **weak regulation invites exploitation**. The solution lies in a **balanced, transparent, and adaptive regulatory architecture** that:
 - Guarantees transparency and accountability;
 - Formalises benefit-sharing mechanisms;
 - Embeds free, prior, and informed consent (FPIC) and land rights protection;
 - Encourages stakeholder consultation and community oversight.
 - Monitoring, reporting, and verification (MRV) systems need to be robust to prevent greenwashing and false claims.
- Such reforms would not only build **trust and integrity** in carbon markets but also ensure that **climate action advances justice**, not inequality.

Conclusion

- Sustainability cannot be built on exclusion. The **next phase of climate action** needs to go beyond emissions accounting to include **social safeguards and community empowerment**.
- For countries like India, the challenge and opportunity lies in designing carbon markets that uplift the vulnerable people while protecting the planet.

Source: TH

Daily Mains Practice Question

[Q] Discuss the importance of implementing ethical safeguards in India's carbon market. How can these safeguards contribute to a more inclusive and sustainable future for marginalized communities and the environment?