

Daily Current Affairs To The Point by Dhananjay Gautam

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Internet Shutdowns in India: Balancing Security and Freedom

Context: A recent report by the **advocacy group 'Access Now'** highlights that **India recorded the second-highest number of internet shutdowns in 2024**, accounting for **28% of global disruptions**.

Global and National Trends in Internet Shutdowns:

- ✓ Global Scenario: A total of 296 internet shutdowns occurred worldwide in 2024.
- ✓ India's Position: With 84 shutdowns, India was second only to Myanmar, which had one more disruption.
- ✓ Comparative Decline: India saw fewer shutdowns in 2024 compared to the previous year.
 Affected Regions: 16 States and Union Territories experienced disruptions.

✓ Most Shutdowns:

- Manipur 21 shutdowns
- Haryana 12 shutdowns
- Jammu & Kashmir 12 shutdowns
- ✓ Primary Reasons:
 - **41 shutdowns** were imposed due to **protests**.
 - 23 shutdowns were linked to communal violence.

Legal Framework Governing Internet Shutdowns:

- 1. Grounds for Imposing Shutdowns:
 - The Indian Telegraph Act allows the temporary suspension of internet services in cases of "public emergency" or "public safety."
 - However, the **law lacks a clear definition** of what qualifies as an **emergency or safety concern**.
- 2. Earlier Use of Section 144 of CrPC:
 - Before 2017, authorities imposed internet shutdowns under Section 144 of the Code of Criminal Procedure (CrPC).
 - Section 144 grants powers to the police and District Magistrate to prevent unlawful gatherings and restrict specific activities.
- 3. Introduction of Suspension Rules (2017):
 - In 2017, the government introduced the Temporary Suspension of Telecom Services (Public Emergency or Public Safety) Rules.
 - These **rules set guidelines** for **imposing shutdowns** and require a **review by an advisory board within five days**.

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4. Landmark Case: Anuradha Bhasin v. Union of India (2020): The Supreme Court ruled that indefinite internet shutdowns are unconstitutional.

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GS Paper 3 – Polity and Governance

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Key Takeaways from the Verdict:

- Internet access is a fundamental right under Article 19.
- Shutdowns must be temporary, not indefinite.
- The government must publish orders imposing restrictions under Section 144.
- Any shutdown order is **subject to judicial review**.

Arguments in Favor of Internet Shutdowns:

- National Security: Helps curb misinformation, prevent unlawful activities, and neutralize security threats.
- Temporary and Targeted: Shutdowns are used as a short-term measure, not a permanent restriction.
- **Preventing Unrest and Violence**: Helps prevent **riots, protests, or organized unrest**.
- **Combating Fake News**: Stops the **spread of misinformation** and **rumors** during crises.

Arguments Against Internet Shutdowns:

- Violation of Freedom of Expression: Restricts the right to speech and information, guaranteed by the Constitution.
- Negative Impact on Global Reputation: Frequent shutdowns affect India's image, discouraging foreign investors.
- Human Rights Concerns: Hinders access to information, free speech, and peaceful assembly.
- **Economic Disruptions**: Affects the **digital economy**, causing **financial losses**.
- Educational Setbacks: Interrupts online learning, affecting students across the country.
- Lack of Transparency: Governments must clearly communicate the reasons and duration of internet restrictions.

Conclusion:

In a **democracy**, restricting internet access should be **justified and transparent**. **Indiscriminate shutdowns** not only affect **social and economic activities** but are often **ineffective** in addressing security concerns. India needs a **more accountable and balanced approach** to **internet governance**, ensuring both **public safety and fundamental rights** are upheld.

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GS Paper 3 – Energy Security & Infrastructure

India's Growing LNG Imports: A Key Driver in the Energy Transition

Context: India's liquefied natural gas (LNG) imports from the United States reached a record 7.14 billion cubic meters (BCM) in the first **11 months of 2024**, reflecting a **71% year-over-year surge**. This marks a significant shift in India's energy landscape as it strengthens its reliance on LNG.



Understanding LNG:

Liquefied Natural Gas (LNG) is natural gas cooled to -162°C (-260°F), converting it into a liquid form for easier storage and transportation. Primarily composed of 90% methane, LNG is odorless, colorless, nontoxic, and non-corrosive.

India's LNG Landscape:

As the **third-largest energy consumer** globally, India is witnessing an **unprecedented rise in energy** demand due to rapid economic growth. LNG has emerged as a strategic energy source to meet these expanding needs.

India's LNG infrastructure includes import terminals, pipelines, and distribution networks, supplying power plants, industries, and city gas networks. However, the sector faces congestion issues and supply chain inefficiencies, limiting its full potential.

US Overtakes UAE as a Key LNG Supplier:

- In 2023, the United States surpassed the UAE to become India's second-largest LNG supplier, while • **Qatar** remains the top supplier.
- In **2024**, India's LNG imports from the US rose by **53.5%**, highlighting a growing preference for American gas.

Why is India Increasing LNG Imports?

- 1. Energy Diversification: India's transition from coal-based power to cleaner fuels is driving its LNG imports.
- 2. Net-Zero Commitment: To achieve its net-zero target by 2070, India is prioritizing low-emission energy sources, with LNG playing a crucial role.
- 3. Industrial Growth: Industries demand clean and efficient energy, making LNG a viable alternative to traditional fuels.
- 4. Urbanization & City Gas Networks: Expanding city gas distribution (CGD) networks and increasing reliance on **Piped Natural Gas (PNG)** are improving **urban living standards**.

Challenges Hindering LNG Growth:

- 1. Infrastructure Deficiencies: Although India aims to increase natural gas's share to 15% of its energy mix by 2030, congested LNG terminals and inadequate infrastructure pose major obstacles.
- 2. Limited Pipeline Network: A lack of pipelines restricts LNG access to remote areas, slowing nationwide distribution.

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3. Storage Constraints: India has limited LNG storage capacity, making it vulnerable to global price volatility and supply disruptions.

Government Initiatives to Strengthen LNG Infrastructure:

- Energy Transition Policy: The government is focused on increasing the share of natural gas to 15% by 2030 to reduce dependence on coal.
- 2. National Gas Grid Expansion: Expanding the LNG pipeline network aims to enhance supply efficiency and improve accessibility.
- **3. Expansion of City Gas Distribution (CGD):** Accelerating access to **Piped Natural Gas (PNG) and Compressed Natural Gas (CNG)** for urban households and transport.
- 4. Development of New LNG Terminals: New import and storage facilities are being planned to meet rising demand.
- 5. Liberalization of Gas Pricing: Providing market and pricing freedom for deepwater, highpressure, and coal seam gas sources, with a ceiling price mechanism.
- 6. Sustainable Alternative Towards Affordable Transportation (SATAT): Promoting Bio-CNG as an eco-friendly transportation fuel to reduce reliance on traditional fuels.

The Road Ahead: Building a Robust LNG Ecosystem:

- **1. Encouraging Investments:** The government must introduce **investment-friendly policies** to attract **private and foreign capital** into LNG infrastructure.
- 2. Regulatory Simplification:
- 3. Fast-tracking approvals for LNG projects can accelerate infrastructure expansion.
- **4. Small-Scale LNG Development:** Supporting **small-scale LNG plants** will facilitate **decentralized energy supply** to underserved regions.
- 5. Public-Private Partnerships (PPPs): A collaborative approach between the government, private players, and financial institutions is essential to build a resilient and efficient LNG ecosystem.

With strategic investments, policy reforms, and infrastructure expansion, India is well on its way to becoming a **global leader in LNG consumption**, ensuring **sustainable and secure energy** for its growing economy.













GS Paper 2 – International Relations

The Ancient Tea Horse Road: A Historic Trade Link Between India and China

Context: China's **Ambassador to India, Xu Feihong**, recently highlighted the historical **Tea Horse Road**, a trade route spanning over **2,000 km**, connecting **China to India via Tibet**. This ancient pathway played a crucial role in fostering commerce and cultural exchanges between the two nations.



Unraveling the Tea Horse Road:

The **Tea Horse Road** was a significant **trade network** that linked **China, Tibet, and India** for centuries. Though less known than the **Silk Road**, it was essential for the exchange of **tea, horses, and other valuable commodities**.

On **February 25, 2025**, China's ambassador emphasized its **historical importance**, showcasing how this route strengthened **India-China ties** through trade and cultural interactions.

Origins of the Tea Horse Road:

The **Tea Horse Road** dates back to the **Tang Dynasty (618-907 CE)** when trade between **Southwest China**, **Tibet**, and India flourished.

- Buddhist monk Yijing (635-713 CE) documented these early exchanges, mentioning trade in sugar, textiles, and rice noodles from China, while Tibet and India provided horses, gold, saffron, and medicinal herbs.
- By the 10th century (Song Dynasty, 960-1279 CE), official markets were established to regulate the exchange of tea and horses, the two dominant commodities.

A Network o<mark>f Roads</mark> Through Challenging Terrains:

The **Tea Hor<mark>se Road</mark> was not a single route** but a **complex network of trails** stretching from **Southwest China to India, Nepal, and Bangladesh**.

Key Features o<mark>f the Ro</mark>ute:

- Total Distance: Over 2,000 km
- Major Trade Centers: Dali, Lijiang (Yunnan Province), and Lhasa (Tibet)
- Extreme Elevations: Peaked at 10,000 feet in the Himalayas
- Difficult Conditions: Traders faced harsh terrains, extreme weather, and high altitudes

Despite these hardships, merchants carried **tea from Sichuan** to **Tibet and India**, returning with **horses and other essential goods**.

Tea and Horses - The Backbone of the Trade:

- **Tea:** A daily necessity for **Tibetan nomads**, particularly in **cold and harsh climates**. **Yak butter tea** became a staple, offering **warmth and energy**.
- Horses: Essential for China's military. The central plains of China lacked horses, making Tibetan and Yunnan steeds highly valuable, especially during conflicts against Mongolian tribes.
- To **regulate trade**, the **Song Dynasty government** set up **official markets**, ensuring a controlled and stable exchange of **tea and horses**.

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The Tea Horse Road in Modern History:

Expansion of Trade in the Early 20th Century:

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With the **fall of the Qing Dynasty (1912)**, the **Tea Horse Road** gained importance as **Yunnan's tea industry expanded**, integrating China further into the **global market**.

World War II: A Strategic Supply Route:

During **World War II**, when Japan occupied **China's eastern ports**, the **Tea Horse Road** became a **critical alternative supply route** for transporting **goods and military supplies** to **China's resistance forces**.

Post-1949 Decline:

With the establishment of the **People's Republic of China in 1949**, the **Tea Horse Road lost its significance**.

- Mao Zedong's land reforms altered traditional trade patterns.
- Modern transportation networks gradually replaced the ancient route.
- However, **historical sites like Lijiang** retained their cultural relevance, with **Lijiang becoming a UNESCO World Heritage Site in 1997**.

Reviving the Tea Horse Road: A Cultural Renaissance:

China is actively promoting **tourism along the ancient route**, showcasing its **rich history and cultural significance**.

- Lijiang, a former trade hub, has been transformed into a cultural heritage site, attracting global visitors.
- UNESCO recognizes Lijiang as a key trade distribution center where Sichuan, Yunnan, and Tibet intersected with the Southern Silk Road.

Conclusion: A Timeless Legacy:

The **Tea Horse Road** was more than just a **trade route**—it was a **lifeline** connecting **China**, **Tibet**, **and India** for centuries. Though its **economic importance has faded**, it remains a **symbol of historical trade and cultural exchange**. Efforts to **preserve its legacy** through **tourism**, **research**, **and heritage conservation** highlight its role in shaping **regional economies and cross-border interactions**. This renewed focus serves as a **reminder of the deep historical ties between India and China**, emphasizing the **enduring legacy of this ancient trade corridor**.

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GS Paper 3 – Agriculture

India's Fertilizer Strategy

Context: India is taking decisive steps to **reduce its reliance on imported fertilizers**, particularly **Urea**, **Di-Ammonium Phosphate (DAP)**, **and Muriate of Potash (MOP)**. The government is focusing on **alternative solutions** to ensure **sustainable agriculture**, improve **soil health**, and **lower import costs**.



India's Heavy Dependence on Imported Fertilizers:

MOP – 100% Imported:

India lacks **potash reserves**, making it completely reliant on imports from **Canada, Russia, Jordan, Israel, Turkmenistan, and Belarus**.

Urea - Domestic Production Dependent on Imports:

While **85% of urea demand** is met through **domestic production**, manufacturing is heavily dependent on **imported Liquefied Natural Gas (LNG)** from **Qatar, the US, UAE, and Angola**.

DAP – A Complex Import System:

India imports DAP in multiple forms::

- Finished Fertilizer Mainly from Saudi Arabia, China, Morocco, Russia, and Jordan.
- Raw Materials Rock phosphate from Jordan, Morocco, Togo, Egypt, and Algeria; sulphur from UAE, Qatar, and Oman.
- Intermediate Chemicals Phosphoric acid from Jordan, Morocco, Senegal, and Tunisia; ammonia from Saudi Arabia, Qatar, Oman, and Indonesia.

Why India N<mark>eeds to</mark> Reduce Urea, DAP & MOP Usage:

1. High Impo<mark>rt Depen</mark>dence & Rising Costs:

- India's reliance on imports for **MOP and DAP** puts pressure on **foreign exchange reserves**.
- The **rupee's depreciation** further increases fertilizer import costs.

2. Nutrient Imbalance & Soil Health Issues:

- Urea (46% nitrogen), MOP (60% potash), and DAP (46% phosphorus + 18% nitrogen) are highanalysis fertilizers.
- **Excessive use** of these fertilizers **disrupts soil health**, leading to **inefficient nutrient absorption and wastage**.
- Crops need a **balanced mix of nutrients**, including **macronutrients (N, P, K)**, **secondary nutrients (sulphur, calcium, magnesium)**, and micronutrients (zinc, iron, copper, boron, manganese, **molybdenum)**.

3. Ensuring Efficient Resource Utilization:

- Reducing the use of **high-analysis fertilizers** allows better utilization of **imported raw materials**.
- Balanced fertilization improves crop yields while lowering fertilizer expenses.

Ammonium Phosphate Sulphate (APS): A Sustainable Alternative to DAP:

What is APS?

 APS (20:20:0:13) contains 20% Nitrogen (N), 20% Phosphorus (P), and 13% Sulphur (S) but no Potassium (K).



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• Although APS has lower phosphorus content than DAP (46% P), its balanced nutrient composition makes it an effective alternative.

Advantages of APS Over DAP:

- **Reduces dependence on costly phosphoric acid**, making fertilizer production more **economical and resource-efficient**.
- Sulphur enrichment improves soil health and boosts crop productivity.
- Ideal for oilseeds, pulses, maize, cotton, onion, and chilli, which require high sulphur content.
- DAP should be reserved for wheat, rice, and sugarcane, where it is most essential.
- **Higher sales potential** Companies can **sell twice the number of APS bags** compared to **DAP using the same amount of phosphoric acid**, making APS a **financially viable alternative**.

The Road Ahead: Shaping India's Fertilizer Future:

1. Rapid Growth in NPKS Complex Fertilizers:

- Sales of **NPKS fertilizers** in **2024-25** are projected to reach **14 million tonnes (mt)**, nearly **double** the **7.3 mt recorded in 2013-14**.
- The rapid growth is driven by **APS (20:20:0:13)**, which is steadily **replacing DAP**.

2. Promoting Balanced Fertilization:

- Other complex fertilizers like 10:26:26:0, 12:32:16:0, 15:15:15:0, and 14:35:14:0 need stronger marketing efforts.
- Direct **MOP application should be minimized**, with its usage **integrated into balanced fertilizers**.

3. Reducing Dependence on High-Analysis Fertilizers:

- The long-term goal is to limit or gradually reduce Urea, DAP, and MOP usage.
- Farmers must be encouraged to adopt efficient nutrient application techniques for better yields while conserving foreign exchange reserves.

Conclusion: A Sustainable Fertilizer Revolution:

India's fertilizer strategy is undergoing a major transformation to ensure long-term agricultural sustainability.

By reducing dependence on costly imports, promoting balanced fertilization, and adopting sustainable alternatives like APS, India is paving the way for a more resilient and self-reliant agricultural sector.

Encouraging **nutrient-efficient farming practices** will not only **enhance soil health** but also **boost crop productivity**, ensuring a **prosperous future for Indian agriculture**.

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GS Paper 3 – Environment & Ecology

5

India to Announce Emission Intensity Targets by Month-End

Context: The **Union government** is gearing up to unveil **emission intensity targets** for **nine key industrial sectors** by the **end of February 2025**. This marks a **major milestone** in India's journey towards launching a **carbon credit trading scheme**, which will help industries transition towards a **low-carbon economy**.



Implementation Timeline:

- Industries will be given **one year** to align with the new **compliance measures**.
- Carbon credit trading is expected to commence by October 2026.

Background: India's Carbon Credit Trading Scheme

The **Bureau of Energy Efficiency (BEE)**, under the **Union Ministry of Power**, announced India's **carbon credit trading system** in **June 2023**.

- March 2024: Follow-up regulations made compliance mandatory for certain industries.
- **Current Status: Emission intensity targets** are yet to be defined, delaying the **generation and trading of carbon credits**.

Objective: Why Is India Introducing Carbon Credit Trading?

The initiative aims to:

- Reduce, remove, or prevent greenhouse gas (GHG) emissions.
- Encourage industries to improve efficiency rather than impose absolute emission cuts.
- **Create a financial incentive** for businesses to adopt **cleaner technologies**.
- The scheme operates on a **carbon credit certificate trading system**, ensuring that **industries can monetize their sustainability efforts**.

How Does India's Carbon Credit System Compare Globally?

European Model (Absolute Cap-and-Trade System):

- Each **carbon credit** represents **one tonne of CO₂ prevented** from being released.
- Industries with emission limits can buy or sell credits based on their compliance levels.

Indian Model (Efficiency-Based Approach):

- Industries are **not required to reduce overall emissions** but must **improve efficiency**.
- Emission intensity targets focus on reducing emissions per unit of production.
- Example: A **steel plant** can **burn less coal** or **reuse heat** to manufacture the same amount of steel more efficiently.

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Emission Intensity Targets: Key Sectors Affected:

The **emission intensity targets** will apply to **nine major industrial sectors**:

- Iron & Steel
- Aluminium
- Chlor-Alkali

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- Cement
- **Fertilizers**
- **Pulp & Paper**
- **Petrochemicals**
- **Petroleum Refineries**
- Textiles

Additionally, India is also exploring voluntary carbon offset markets, such as afforestation projects, which may begin trading later this year.

India's Climate Commitment: A 2030 Goal

India is on a mission to cut its emissions intensity by 45% from 2005 levels by 2030. The **upcoming emission intensity targets** will be a **crucial step** in achieving this ambitious goal while supporting industries in making a **smoother transition to sustainability**.

By introducing this **market-driven approach**, India is positioning itself as a **global leader in carbon** efficiency, balancing economic growth with environmental responsibility.

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GS Paper 2 - Governance & Social Justice

6 India's Social Protection Coverage Doubles to 49%: ILO Report

Context: According to the **ILO's World Social Protection Report 2024-26**, the proportion of India's population covered by at least one social protection benefit (excluding healthcare) has risen from 24% in 2021 to 49% in 2024. This marks a significant milestone in India's efforts to strengthen social security and economic resilience.



What is Social Protection?

Social protection refers to benefits provided to individuals based on the risks they face throughout their life—such as unemployment, disability, old age, and economic hardships. It also supports those suffering from poverty and social exclusion.

Why is Social Protection Important?

- Building an Inclusive Society Ensures security for children, women, the elderly, and persons with disabilities.
- Tackling Climate Change and Social Inequality Helps combat poverty, inequality, and social **exclusion**, making societies more resilient to climate and economic shocks.
- Promoting Sustainable Economic Growth Encourages transition to greener jobs and sustainable economic practices, fostering long-term stability.

Challenges in India's Social Protection System:

- Limited Coverage for Informal Workers A vast segment of India's informal workforce remains outside the scope of **comprehensive social security programs**.
- Gender Disparity in Benefits Only 26% of Indian women are covered by at least one social protection scheme, compared to 39% of men.
- Low Public Spending on Social Protection India allocates just 5% of its GDP to social protection (excluding healthcare), significantly below the global average of 13%.
- Impact of Automation & AI According to McKinsey, automation and artificial intelligence (AI) ٠ could disrupt around 12 million jobs in India by 2030, making social protection even more crucial.

The Road Ahead: Strengthening Social Protection in India:

- **Expanding Coverage for Informal Workers** Strengthening **unemployment insurance and** pension schemes to extend coverage to informal sector workers.
- Bridging the Gender Gap Enhancing maternity benefits, pension access, and financial security programs for women.
- Better Data & Monitoring Improving data collection and tracking systems to ensure social benefits reach the right beneficiaries.
- **Reskilling for the AI Era** Implementing **workforce upskilling initiatives** to help workers **adapt** to automation and emerging job sectors.

With rising social protection coverage, India is taking significant steps towards a more inclusive and resilient economy, but further reforms are essential to achieve universal social security.

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