

Daily Current Affairs TO The Point by Dhananjay Gautam

Table Of Content 07 Dec 2024

- 1. Bharatiya Vayuyan Vidheyak 2024
- 2. Rising Potato Prices in Odisha
- 3. The 80-Pillar Assembly Hall of Kumhrar and Maurvan Architecture
- 4. International Advisory Body for Submarine Cable Resilience
- 5. Anna Chakra and SCAN Portal
- 6. ISRO Launches PSLV-C59 Rocket with ESA's Proba-3 Satellite

Subscribe to our



You Tibe Freedom UPSC with Dhananjay Gautam









GS Paper 3 – Infrastructure and Economic

Bharatiya Vayuyan Vidheyak 2024: Revolutionizing India's Aviation Laws

Context: The **Bharatiya Vayuyan Vidheyak (BBV) 2024**, which replaces the outdated **Aircraft Act, 1934**, represents a major reform in India's aviation regulations. The bill has been **passed by the Rajya Sabha**, following its earlier clearance in the Lok Sabha in **August 2024**.

This legislation aims to modernize aviation laws and improve the **ease of doing**

business in the sector. The move comes after suggestions from the **International Civil Aviation Organization (ICAO)** to align India's aviation laws with **global standards**.

Key Features of the Bharatiya Vayuyan Vidheyak 2024:

1. Establishment of Three Key Authorities:

- **Directorate General of Civil Aviation (DGCA):** Responsible for regulatory functions and safety oversight.
- Bureau of Civil Aviation Security (BCAS): Handles aviation security.
- Aircraft Accidents Investigation Bureau (AAIB): Investigates aircraft accidents.

Government: Supervision: The central government retains **supervisory powers** over these bodies, including the ability to issue directions and review their decisions.

Appeals: All appeals against decisions by the DGCA or BCAS will lie with the **central government**, with no further recourse.

2. Aircraft Design Regulation:

- The bill retains existing provisions for regulating the manufacture, use, and operation of aircraft.
- New powers: It introduces the regulation of aircraft design, enhancing India's aviation safety standards.

3. Expanded Rule-Making Powers:

- Existing Powers Retained:
 - **Regulat**ing aircraft activities, licensing, and certification.
 - Implementing the 1944 International Civil Aviation Convention.
- New Powers Added:
 - Regulating radio telephone operator certificates and licenses under the International Telecommunication Convention.

4. Stricter Offences and Penalties:

- Punishable Offences: Violations such as carrying prohibited goods, endangering public safety, and disobeying DGCA/BCAS directions are punishable by up to two years' imprisonment, a fine of 1 crore, or both.
- Enhanced Penalties: Activities like dumping rubbish near airports can lead to penalties of up to three years' imprisonment or 1 crore fine.
- **Civil and Criminal Penalties:** Discretionary penalties include **fines of up to 1 crore** and imprisonment of up to **two years**.

5. Adjudication and Appeal Mechanism:

- The bill retains the **appointment of adjudicating officers** by the central government to impose penalties.
- Introduces a **Second Appellate Officer** to allow further appeals beyond the **First Appellate Officer**, ensuring a more comprehensive adjudication process.

Criticisms of the Bharatiya Vayuyan Vidheyak:

1. Lack of Autonomy for the DGCA:

- Unlike independent regulators in sectors like telecom, electricity, and insurance, the **DGCA functions as a government department**.
- The **Director General's qualifications, selection process, and tenure** are not clearly defined, raising concerns about operational independence.



2





2. Limited Appeal Mechanism:

Appeals against decisions by authorities such as the DGCA or BCAS are restricted to the **Union Government**, which may undermine the perception of professionalism and independence.

3. Arbitrator Appointment for Compensation:

- The government has the power to appoint arbitrators for determining compensation.
- Critics argue this violates **Article 14 of the Constitution**, as the **Supreme Court** has ruled that unilaterally appointed arbitrators compromise fairness.

4. Overreach of Government Discretion:

• The central government has significant discretion to **define criminal penalties**, which could infringe on the **principle of separation of powers**.

5. Concerns Over Inclusivity:

• The bill's **Hindi title** has sparked criticism for being exclusionary, as **60% of India's population** does not speak Hindi. Analysts argue that a more inclusive title is necessary for a diverse country like India. **Implications for India's Aviation Sector:**

The **Bharatiya Vayuyan Vidheyak 2024** is a bold step towards modernizing India's aviation laws. While it addresses many **contemporary challenges** and aligns India's aviation sector with global standards, concerns about **regulatory independence**, **government overreach**, and **inclusivity** must be resolved for its effective implementation.

This legislation has the potential to position India as a global aviation hub while safeguarding public safety and fostering innovation in the sector.

Freedom UPSC.











GS Paper 3 – Indian Economy

Rising Potato Prices in Odisha: Reasons, Trends, and Impacts

Context: The **Odisha government** has attributed the **surge in potato prices** to the West Bengal government's restrictions on shipments.

- **Odisha**, which depends on potato imports, is facing an extended period of high prices due to these limitations.
- West Bengal, a **key supplier**, reduced shipments to safeguard its own markets amidst rising prices.

Agro-Climatic Conditions for Potato Cultivation: Ideal Climate for Growth:

- **Temperature:** Best growth occurs between **18–29°C** during the day and **13–18°C** at night. •
- **Tuber Formation:** Optimal at **20°C**; temperatures over **30°C** can halt tuber development. •

Sunlight: At least six hours of daily sunlight is necessary, though excessive shade can reduce yields. **Soil Preferences:**

- Loose, well-drained loamy or sandy loam soils, rich in organic matter, are ideal.
- **pH Range:** Potatoes thrive in soils with a pH of **5.2 to 6.4**.
- Avoid saline or alkaline soils.
- India's Potato Production: A Global Leader:

India's Global Rank:

Second-largest producer worldwide, after China. •

Growth Over the Years:

Between 1991-92 and 2020-21:

- Cultivation Area: Increased from 11 to 22 lakh hectares.
- **Production:** Tripled, from **181.95 to 561.72 lakh metric tonnes**. ٠
- **Productivity:** Improved by over 50%, reaching **25 metric tonnes per hectare**.

Primary Potato Cultivation Seasons and States:

- Rabi Season (Winter-Spring): Main potato-growing period. •
 - Top Producers (2021-22):
 - Uttar Pradesh: 161 lakh metric tonnes.
 - West Bengal: 124 lakh metric tonnes (jointly contributing 50% of national production). 0
- Kharif Cultivation: Limited to Uttarakhand, Karnataka, Himachal Pradesh, Tamil Nadu, and Maharashtra.

Trends in Potato Prices:

Seasonal Fluctuations:

- Winter-Spring (Rabi Crop Arrival): Prices generally dip. ٠
- Late Summer and Monsoon: Prices rise significantly.

2024 Price Trends:

In **2024**, potato prices have remained **consistently high nationwide**, including Odisha.

- **Retail Prices (December 3, 2024):**
 - Average: **238.08 per kg**.
 - **4.90% higher** than last month.
 - **55.49% higher** than the previous year.
- Wholesale Prices (December 3, 2024):
 - Average: **23,120.99 per quintal**.
 - **5.24% higher** than last month.
 - 69.63% higher than the previous year. 0

Economic Impact:

Download Our Application -









- Potatoes contribute 0.98% to the Consumer Price Index (CPI) and 0.28% to the Wholesale Price Index (WPI).
- The volatility affects consumers and industries like **hotels**, **restaurants**, **and catering (HoReCa)**.

Reasons for the Surge in Potato Prices:

1. Decline in Production:

- 2023-24 Production Drop:
 - Total production decreased by **5.6%**, from **601 lakh metric tonnes** (2022-23) to **567 lakh metric tonnes**.
- Top Producers Affected:
 - Uttar Pradesh: Production reduced by **10 lakh tonnes**, from **201.3 to 191.7 lakh tonnes**.
 - West Bengal: Sharper decline, falling 15 lakh tonnes, from 145 to 130 lakh tonnes.

2. Shrinking Cultivation Area:

• Cultivation area fell slightly from **23.32 to 23.22 lakh hectares** due to **low prices in the previous year**, discouraging farmers.

Odisha's Heavy Dependence on Potato Imports:

Limited Local Production:

Odisha's agro-climatic conditions are **unsuitable** for large-scale potato farming due to temperatures exceeding the ideal range of **15°C–25°C**.

Reliance on West Bengal

- West Bengal typically sends **150–200 truckloads of potatoes daily** to Odisha and Chhattisgarh.
- Restrictions on shipments have created **artificial** scarcity in Odisha, exacerbating the price hike.

In Summary:

The **rising potato prices in Odisha** highlight the state's dependence on imports and underline the challenges of a fluctuating supply chain. Efforts to enhance **local potato cultivation**, diversify sources, and strengthen supply chains are crucial to ensuring **price stability** in the future.

OGETHER WE SCALE HEIGHTS

Download Our Application









GS Paper 1– Indian Heritage and Culture

The 80-Pillar Assembly Hall of Kumhrar and Mauryan Architecture

Context: The **Archaeological Survey of India (ASI)** has initiated an excavation project to uncover the **80-pillar assembly hall** at Kumhrar, a prominent **Mauryan** archaeological site in Patna.

This endeavor aims to reignite global interest in the Mauryan Empire's remarkable contributions to art and architecture.

Kev Facts About the 80-Pillar Assembly Hall:

Historical Importance:

- The 80-Pillar Assembly Hall is linked to the Mauryan Empire (321-185 BCE), one of ancient India's greatest dynasties.
- Emperor Ashoka (268–232 BCE) is believed to have convened the 3rd Buddhist Council here, an event that unified the Buddhist sangha and spread Dhamma (Buddhist teachings) globally.
- The site emphasizes **Pataliputra's** (Mauryan capital) role as a **political and cultural hub**.

Architectural Significance:

- The hall featured **80 sandstone pillars** supporting a **wooden roof and floor**. •
- Materials like sandstone and wood were transported via the Sone-Ganga river route, showcasing advanced resource management.

Archaeological Discoveries:

- 1. First Excavation (1912-1915):
 - Discovered **one intact pillar**, **80 pillar pits**, and stone fragments.
 - **Evidence** of **thick ash layers** indicated destruction, possibly during the **Indo-Greek or Huna** 0 invasions.
- 2. Second Excavation (1961–1965):
 - Unearthed four additional pillars.

Preservation Challenges and Reopening Efforts:

- Rising water levels submerged parts of the site, prompting the ASI to cover it with soil (2004-**2005)** for conservation.
- **Reopening Plans:**
 - ASI is exposing 6–7 pillars to assess impacts of humidity and groundwater, with guidance from the **Central Ground Water Board**.
 - Full reopening will depend on recommendations from an **expert committee**, balancing preservation with public access.

Key Highlights of Mauryan Art and Architecture:

Architectural Types:

- 1. Court Art:
 - Designed for **political and religious purposes**.
- 2. **Popular Art:**
 - Widely accessible and influenced by **local traditions**.

Mauryan Court Art:

Palaces:

- Greek historian **Megasthenes** described Mauryan palaces as **magnificent creations**, while Chinese traveler Fa Hien called them god-gifted monuments.
- Chandragupta Maurya's palace was inspired by Achaemenid palaces in Persepolis and built primarily with wood.
- Notable examples: Ashoka's palace at Kumhrar and Chandragupta's palace. •

Pillars:

Mauryan pillars were tall, monolithic, and free-standing, made from Chunar sandstone.

Download Our Application -



Google Play Freedom UPSC with Dhananjay Gautam 6





To the Point Daily Current Affairs



- Ashoka's pillars, with their polished finish, featured animal capitals (lions, bulls) symbolizing state power.
- Inscribed with Buddhist teachings in Pali, Prakrit, Greek, and Aramaic.
- Structure:
 - 1. **Shaft** (monolithic).
 - 2. Capital (lotus- or bell-shaped).
 - 3. Abacus.
 - 4. Capital figure.

Stupas:

- Represented Buddhist principles, featuring elements like a hemispherical mound (anda) and a • central pillar with umbrellas (chhatra).
- **Core material:** Unburnt brick; **outer layer:** Burnt bricks and plaster.
- Examples:
 - Sanchi Stupa (Madhya Pradesh): The most famous Ashokan stupa. 0
 - Piprahwa Stupa (Uttar Pradesh): The oldest. 0

Mauryan Popular Art:

Cave Architecture:

- Used as viharas by Jain and Buddhist monks.
- Known for their **polished interiors** and **decorative gateways**.
- Example: Barabar Caves (Bihar), created by Ashoka for the Ajivika sect.
- Sculptures: Yaksha and Yakshi figures were revered across Hinduism, Buddhism, and Jainism.
 - Examples:
 - **Lohanipur Yaksha** (male figure torso).
 - Didargunj Yakshi (Patna). 0

Pottery: Known as **Northern Black Polished Ware (NBPW)**, featuring **black paint and a lustrous finish**. Mauryan Dynasty: Key Rulers:

1. Chandragupta Maurya (321–297 BCE):

- Founder of the Mauryan Empire.
 - Overthrew the Nanda dynasty and expanded the empire.
 - Formed a treaty with Seleucus Nicator, gaining territories.
 - Adopted Jainism later in life.

2. Bindusara (298-272 BCE):

- Expanded the empire to the Deccan.
- Known as **Amitraghata** (slayer of enemies).

3. Ashoka (272-232 BCE):

- Renounced violence after the Kalinga War.
- Spread **Buddhism globally**, organized the **3rd Buddhist Council**, and promoted **Dhamma**.

4. Decline of the Mauryan Empire: Last ruler, Brihadratha, was assassinated by Pushyamitra Shunga, marking the end of the Mauryan dynasty in 185 BCE.

Archaeological Survey of India (ASI): Custodians of History:

- The ASI operates under the Union Ministry of Culture to protect monuments and archaeological sites.
- Founded in 1861 by Alexander Cunningham, the Father of Indian Archaeology.
- Key Responsibilities:
 - Conducting **excavations**, surveys, and site preservation.
 - Governed by the AMASR Act, 1958. 0

The 80-Pillar Assembly Hall at Kumhrar stands as a testament to the Mauryan Empire's architectural brilliance and its significant contributions to India's cultural heritage. The ongoing excavation by the ASI promises to uncover deeper insights into this ancient marvel.

Download Our Application _____ Freedom UPSC with Dhananjay Gautam











GS Paper 3 – Science and Technology

International Advisory Body for Submarine Cable Resilience

Context: A new **International Advisory Body for Submarine Cable Resilience** has been launched to address the challenges faced by **submarine**

cable infrastructure and ensure its continued **resilience**. These cables are

crucial for supporting the **global digital economy**.

About the Advisory Body:

Joint Initiative:

- The body was jointly launched by the **International Telecommunication Union (ITU)** and the **International Cable Protection Committee (ICPC)**.
- It aims to fortify the **resilience of submarine cables**, which serve as the backbone of global communication networks.

Membership:

- The body includes **40 members** from across the world, comprising:
 - Ministers,
 - Heads of regulatory authorities, and
 - Senior telecommunications experts.
 - The diverse membership ensures a **global perspective** on cable resilience.
- Members convene **bi-annually** to discuss **policies**, **infrastructure**, and **best practices**.

Functions of th<mark>e Advisory Body:</mark>

- 1. Promoting Best Practices:
 - Works with governments and industries to enhance submarine cable resilience.
 - Aims to minimize **risks of damage** and ensure **quick repairs** and deployments.

2. Providing Strategic Guidance:

- Offers insights into tackling challenges such as:
 - Increasing data traffic,
 - Aging infrastructure, and
 - Rising environmental threats to cables.
- 3. Addressing Stakeholder Needs:
 - Focuses on the livelihoods of communities dependent on **submarine cables**.
 - Supports those responsible for **deploying**, **maintaining**, and **protecting** this critical infrastructure.

Significance of Submarine Cables:

.

- Submarine cables are the **lifelines of global communication**, carrying **98% of international data traffic**.
- Their resilience is vital to supporting industries like **finance**, **healthcare**, and **technology**.

About the International Cable Protection Committee (ICPC):

- **Founded in 1958**, the ICPC is a global organization uniting **governments and private stakeholders** in the submarine cable industry.
- It acts as a platform for exchanging:
 - Technical expertise,
 - Legal frameworks, and
 - Environmental strategies.
- The ICPC's mission is to ensure the **security and sustainability** of **undersea cables**.

Conclusion: The creation of the **International Advisory Body for Submarine Cable Resilience** highlights the growing recognition of submarine cables as **critical infrastructure**. By fostering **global cooperation** and promoting **best practices**, the initiative is set to safeguard these essential systems against future challenges, ensuring their reliability in the **digital age**.

Download Our Application _____









5







GS Paper 2 – Governance and Social Justice

Anna Chakra and SCAN Portal: Revolutionizing India's Public Distribution System

Context: The Union government has launched the **Anna Chakra** and the **Subsidy** Claim Application for NFSA (SCAN) Portal, marking a significant step toward modernizing the Public Distribution System (PDS) and streamlining subsidy claim processes.



What is Anna Chakra?

The Anna Chakra is an innovative system developed by the Department of Food

and Public Distribution in collaboration with the World Food Programme (WFP) and IIT Delhi's Foundation for Innovation and Technology Transfer (FITT). It aims to optimize the entire food grain supply chain involving farmers, transporters, warehouses, and Fair Price Shops (FPS).

Key Features of Anna Chakra: 1. Route Optimization:

- Employs advanced algorithms to identify the most efficient transportation routes, reducing
- time and costs. 2. Integrated Logistics Platforms:
 - o Linked with the **Freight Operations Information System (FOIS)** of the Railways.
 - Part of the **PM Gati Shakti platform**, mapping the geo-locations of FPSs and warehouses. \circ
- 3. Environmental Impact:
 - Cuts down on transportation-related emissions, contributing to a reduced carbon footprint 0 and sustainable development.

What is the SCAN Portal?

The **Subsidy** Claim Application for NFSA (SCAN) Portal simplifies and accelerates the process of subsidy claims under the National Food Security Act (NFSA).

Key Features of SCAN Portal

- 1. Single-Window Submission:
 - Offers a unified platform for states to submit claims efficiently.
- 2. Automated Workflow:
 - Streamlines scrutiny, approval, and settlement of claims using **rule-based automation**.
- 3. Real-Time Monitoring:
 - Ensures transparency and minimizes delays in fund disbursal.

Other Government Initiatives for Food Security:

1. Pradhan Mantri Garib Kalyan Anna Yojana (PMGKAY):

- Provides **5 kg of free wheat or rice** per person monthly.
- Initially launched during the **COVID-19 pandemic** and extended for **five years** from January 2024.
- 2. Antyodaya Anna Yojana (AAY):
 - Supplies **35 kg of grains** per household monthly at subsidized rates (**23/kg for rice**, **22/kg**) \circ for wheat).
- 3. Integrated Management of Public Distribution System (IM-PDS):
 - Enables One Nation One Ration Card (ONORC), ensuring food grain access across India, \circ especially for migrant workers.
- 4. Decentralized Procurement (DCP) Scheme:
 - Encourages states to procure and distribute food grains, reducing logistics costs and 0 improving localized food security.

Challenges in the Public Distribution System:

- 1. Food Grain Diversion:
 - A large share of food grains is leaked or diverted to the black market.

Download Our Application Freedom UPSC with Dhananjay Gautam 9







2. Errors in Inclusion and Exclusion:

Non-eligible households often benefit, while genuine beneficiaries are excluded due to \circ identification flaws.

3. Corruption at Fair Price Shops (FPS):

Issues like under-weighing, poor-quality grains, and overcharging undermine the system's credibility.

4. Inadequate Warehousing:

Poor storage facilities lead to **spoilage and wastage** of grains. 0

Way Forward:

- 1. Strengthen Infrastructure:
 - Expand storage and transportation facilities to support the system's growing scale.
- 2. Adopt Advanced Technology:
 - Use artificial intelligence and blockchain for real-time monitoring and eliminating 0 inefficiencies.

3. Promote Sustainability:

o Introduce green logistics and energy-efficient transport solutions to reduce the environmental impact.

By integrating **Anna Chakra** and the **SCAN Portal**, the government is not only addressing long-standing issues within the **PDS** but also paying the way for a more efficient, transparent, and sustainable food distribution system.

Freedom UPSC







6







GS Paper 3 – Science and Technology

ISRO Launches PSLV-C59 Rocket with ESA's Proba-3 Satellite

Context: The **PSLV-C59** rocket, carrying the **Proba-3 spacecraft**, was successfully launched as a dedicated commercial mission by **NewSpace India Limited (NSIL)**. This mission highlights India's increasing capabilities in **space technology** and solidifies its growing influence in the **global space community**.

About the Proba-3 Mission: A World-First in Precision Formation Flying:

Mission Objective:

The primary objective of the **Proba-3 mission** is to observe the **Sun's corona** using **precision formation flying**, a world-first achievement in space exploration.

Key Spacecraft:

The mission uses two specialized spacecraft:

- 1. **Coronagraph**: Designed to study the **Sun's corona**.
- 2. **Occulter**: Positioned to block the **Sun** and create **artificial eclipses**, enhancing the quality of observation.

Benefits for India's Space Program:

- **1. Strengthening Global Market Presence:** India currently holds **2-3% of the global space economy** and has significant potential for further growth. The success of such missions increases India's competitive edge, positioning it as a leader in space exploration.
- 2. Economic Growth & Job Creation: The rise in commercial space launches and the development of space technologies has the potential to significantly contribute to India's economic growth. In 2022, India earned over \$279 million from foreign satellite launches, boosting the national economy and creating jobs.
- **3. Technological Advancements:** Collaborating on advanced projects like **Proba-3** fosters technological growth, allowing India to strengthen its role in the **global space industry** while making significant strides in space research.
- **4. Strategic Importance:** India's expanding space capabilities play a key role in enhancing the nation's **strategic autonomy** and its participation in **international space exploration**.

Key Initiatives Driving India's Space Future:

- **1. IN-SPACe (Indian National Space Promotion and Authorization Center):** This **regulatory body** is crucial in promoting **private sector participation** in India's space sector, providing a platform for innovative ventures.
- **2. Indian Space Policy 2023:** The **Indian Space Policy 2023** aims to **liberalize** the space sector further, encouraging private investment, fostering innovation, and allowing new players to thrive in the space ecosystem.
- **3. Startups & SSLV (Small Satellite Launch Vehicle):** The rise of **private space startups** and the development of the **SSLV** demonstrates India's commitment to building a **vibrant and competitive space ecosystem**, supporting both public and private sector involvement.

India's **PSLV-C59** launch with the **Proba-3 satellite** underscores the nation's growing prominence in the global space sector. As India continues to expand its **technological reach**, participate in international collaborations, and open doors to private innovation, it is positioning itself as a **leader** in **space exploration** for the future.

Download Our Application -



