

NEWS TODAY

Role of Trade in reducing Food Insecurity and preventing famine examined by UNCTAD Report

The report analyses various drivers of food insecurity and how can trade play a mitigating role in addressing these challenges

Role of Trade in addressing Food Insecurity

- **Sustainable supplies can ensure food availability:** E.g. 30% of Africa's cereal needs are met through imports
- **Stabilizing prices and markets:** E.g. **Black Sea Initiative** (brokered by UN and Türkiye) during Russia-Ukraine war facilitated food and fertilizer exports

Challenges

- **Higher costs:** E.g. non-tariff measures, such as sanitary standards, can increase food import costs by 20%.
- **High Import dependency:** It exposes countries to global price hikes and supply chain disruptions.
- **Rising transportation costs:** It affects developing and least developed countries disproportionately.

Recommendations

- Reach a **"Short Term Export Facilitation Mechanism to Combat Severe Food Insecurity"** at international forum, such as WTO
- **Reduce trade barriers & boost export capacities** of food insecure countries.
- **Invest in trade infrastructure** such as ports, transport networks and storage facilities to shorten supply chains and reduce vulnerabilities to global disruptions especially for low-income countries.
- **Support climate-smart and sustainable farming in developing countries.**

Factsheet

- >280 million faced acute hunger whereas ~733 million faced chronic hunger (2023)
- Without urgent action, 582 million could be chronically hungry by 2030.

Drivers of global hunger

- **Armed conflict:** affected 5 million people in 20 countries(2022)
- **Climate change:** It has led to reduction in agricultural productivity by 21% since 1961.
- **Urbanization:** It is blurring lines between rural and urban areas thereby impacting agrifood systems

Union Minister of Housing & Urban Affairs highlights need for better Urban Planning

The minister emphasized sustainable urban environments and better urban planning as **50% of the population are expected to reside in cities by 2047.**

Present issues related to Urban Planning

- **Out-dated Spatial & Temporal plans** fail to accommodate population growth.
- **Lack of modern planning framework,** rigid master plans and restrictive zoning regulations
- **Housing Issues:** E.g. building regulations often limits urban density leading to proliferation of slums. **E.g. 17.3% of the total urban population was under slums in India (Census 2011)**
- **Environmental challenges such as air pollution** affect people's health and productivity, diminishing quality of life.
- **Lack of disaster resilience for cities:** E.g. **Chennai Flood (2015)** caused due to encroachment of lakes and riverbeds

Steps to be taken

- **Enhancing Ease of living:** by empowering staff with skills and knowledge required to plan better and manage cities
- **Use of data and Technology:** to make capacity-building initiatives a catalyst for strengthening urban governance.
- **Integration of Traditional Wisdom:** To reimagine historic Indian cities and shape future cities.
- **Develop cities as examples of equity, equality, and sustainability:** with use of innovation and citizen centric governance to achieve inclusiveness, especially for marginalized communities

Initiatives taken

- **Smart Cities Mission:** Launched in 2015, aims to improve the quality of life in 100 cities by providing efficient services, robust infrastructure, and sustainable solutions.
- **Pradhan Mantri Awas Yojana (Urban) Mission** intends to provide housing in urban areas.
- **Rental housing for industrial workers** to be facilitated in PPP mode, Transit Oriented Development plans, etc.

Stampede Caused by Overcrowding At Tirupati Resulted In Loss of Lives

Stampede is “an **impulsive mass movement of a crowd** that often results in injuries and deaths” due to Traumatic asphyxia (cessation of respiration) or other injuries.

- ▶ Reportedly, **religious gatherings** accounted for **79% of India's stampedes between 1954-2012**.
- ▶ Recent examples include the 2024 incidents at **Hathras and Kalkaji temple**.

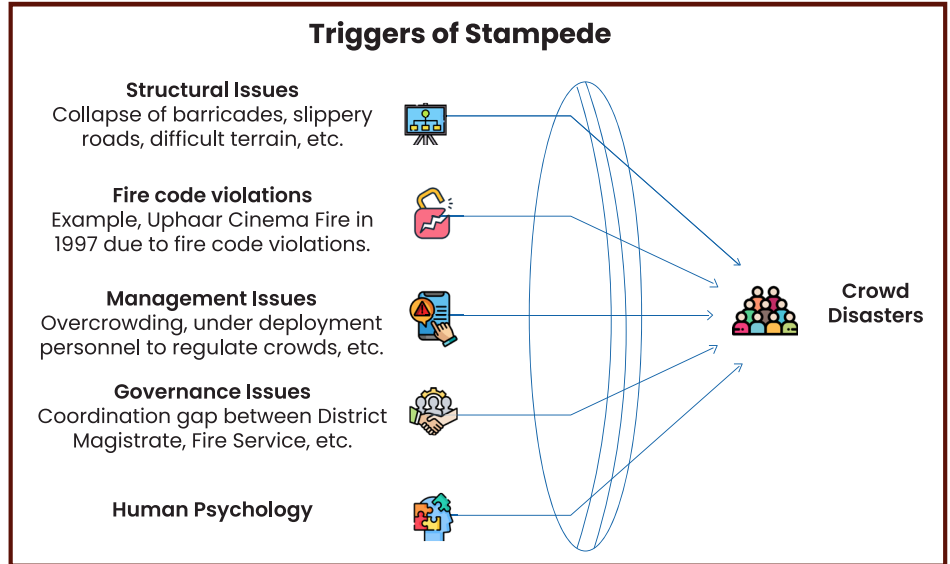
Crowd Management

Highlights of **National Disaster Management Authority (NDMA) Guidelines** on crowd management:

- ▶ **Crowd management strategies and arrangement:** Capacity Planning (infrastructure development), Understanding of crowd Behaviour and Crowd Control by restricting or limiting group behaviour.
- ▶ **Risk Assessment & Mitigation:** Identify and address potential hazards.
- ▶ **Information Management:** Clear communication with visitors and stakeholders.
- ▶ **Safety & Security:** CCTV surveillance and emergency exits.
- ▶ **Medical Services:** Equipped facilities and trained personnel.
- ▶ **Traffic Management:** Efficient transportation and clear route marking.

Best Practices in Crowd Management

- ▶ **Japan and Singapore:** Leverages advanced technology such as AI-powered crowd monitoring systems, real-time data analysis, mobile applications etc.
- ▶ **Saudi Arabia – Hajj Pilgrimage Management:** Saudi Arabia uses a combination of crowd flow modeling, designated time slots for rituals etc.



Home Minister Chair the Review meeting of Bureau of Police Research and Development (BPR&D)

Home Minister reviewed BPR&D's work on implementing new criminal laws and urged it to address grassroots policing challenges while improving the police's global image.

- ▶ **BPR&D** was established in **1970** under the Home Ministry, with the primary **objective of modernisation of the police force**.

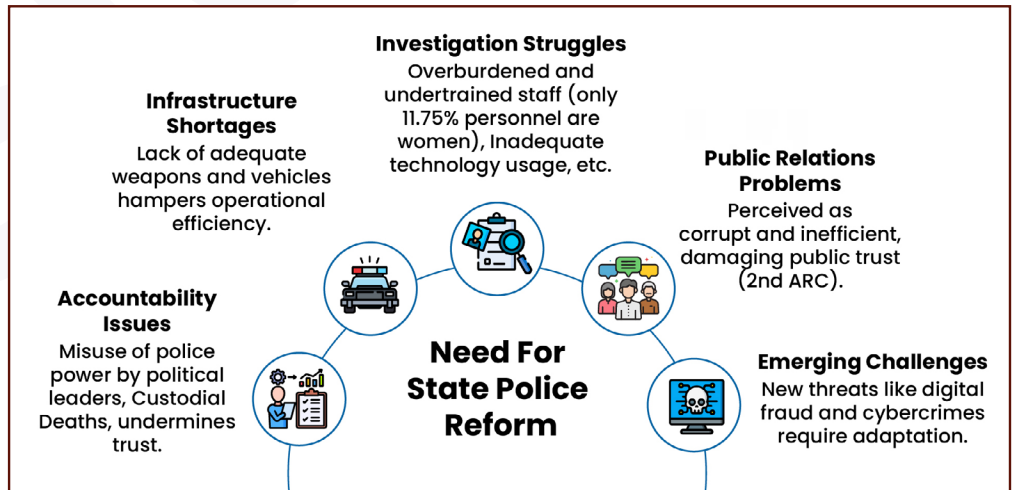
Overview of Police Organization in India

- ▶ **State Subject:** Policing is primarily governed by states under the Indian Constitution.
- ▶ **Centre's Assistance to States:** Central police forces assist State Police with intelligence and internal security challenges (e.g., insurgencies).
- ▶ **Functions of Police:** Enforce laws and investigate crimes, maintain law and order, provide security and ensure public safety.
- ▶ **Accountability of Police:** Ministers have superintendence and control over police forces to ensure accountability.

Initiatives for State Police Reform

- ▶ **Modernisation of State Police Forces (MPF) Scheme:** A five-year program (2021-26) with 15 sub-schemes to improve police infrastructure and operations.
- ▶ **SMART Policing:** Introduced by the Prime Minister in 2014, focusing on making police **SMART** (Strict and Sensitive; Modern and Mobile; Alert and Accountable; Reliable and Responsive; Tech-savvy and Trained)
- ▶ **Women Representation:** MHA advised States/UTs to set up all-women police stations in each district and increase women personnel to 33%.

Strengthening state police can be further achieved through **community policing**, and implementing the **Supreme Court's directions in the Prakash Singh vs Union of India (2006)** case, etc.



Government makes 10,000-Genome Database available to researchers across the globe

The database created under **Genome India Project** will be made available to researchers as **digital public good** through:-

- **Indian Biological Data Centre (IBDC) Portals**
 - ⊖ It archives and provides access to India's genomic data, enabling researchers to explore genetic variations and develop precise genomic tools and
- **'Framework for Exchange of Data Protocols (FeED)'**
 - ⊖ Launched under **Biotech-PRIDE Guidelines**, FeED ensures ethical, transparent, and responsible sharing of high-quality, nation-specific genomic data.
 - ◆ **Biotech-PRIDE Guidelines provide a framework for the responsible, ethical, and transparent sharing of biological and genomic data in India.**

Significance and Future Outlook of Initiative

- **Revolutionizing Personalized Healthcare:** by enabling treatments tailored to India's demographics ensuring low-cost diagnostics and precise genetic studies
- **Growth of Bioeconomy:** India's bioeconomy grew from \$10 billion in 2014 to \$130 billion in 2024, with a target of \$300 billion by 2030
 - ⊖ India now ranks **12th globally in biotech** and 3rd in the Asia-Pacific region.
- **Catalyzing Interdisciplinary Research:** By providing insights, in agricultural, environmental, and industrial sectors
- **Catalyst for Healthcare Transformation:** Drives advancements in mRNA vaccines, protein manufacturing, and genetic disorder treatments etc.

About Genome India Project:

- **Launched in 2020 by Department of Biotechnology,**
- **Aim:** to catalogue genetic variations across India's diverse population through large-scale genome sequencing.
- **Genome is made up of DNA** and is embedded in 23 pairs of chromosomes

Ministry of Commerce & Industry launched 8th edition of National Programme for Organic Production (NPOP)

8th edition of NPOP is aimed at promoting **ease of operations and enhancing transparency** for stakeholders, including farmers.

- **NPOP strengthens India's organic certification system (refer to the infographics).**
- **APEDA, Ministry of Commerce & Industries, is implementing Agency.**

Key highlights of 8th Edition of NPOP

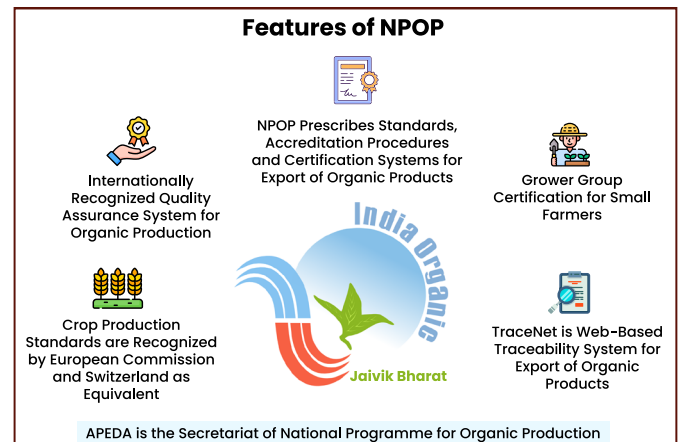
- **Simplified Certification:** Organic grower groups have been granted legal status in place of the Internal Control System (ICS).
- **Market Support:** ICS of organic grower groups must ensure the procurement of the entire organic produce or **establish market linkages to support farmers.**
- **Faster land conversion to organic farming:** Reducing the transition period by up to three years under specific conditions.

Portals unveiled during the event:

- **NPOP Portal** for streamlined stakeholder operations
- **Organic Promotion Portal** linking farmers to global buyers
- **TraceNet 2.0** for enhanced traceability
- **Revamped APEDA Portal** for improved user experience

Achievements of NPOP

- **Global Ranking:** India ranks **first globally in organic producers and second in organic agricultural land.**
- **Certified area:** Total certified area reaches **7.3 million hectares (2023-24)**, with **Madhya Pradesh leading**, followed by Maharashtra and Rajasthan.
- **Organic Exports:** Currently at ₹4,007.91 crore, are projected to reach **₹20,000 crore in three years.**



Also In News



Supriyo vs. Uol Case 2023

Supreme Court dismissed the review petitions against the verdict delivered in **Supriya Chakraborty vs. Uol Case**.

Supriyo vs. Uol Case 2023

- **Court declined to recognize queer marriages**, leaving it to the legislature.
 - ⊖ **Queer** refers to people who identify themselves as LGBTQ+ (lesbian, gay, bisexual, transgender, queer and intersex).
- **Directed Centre to form a committee to examine queer rights** without recognizing marriage.
 - ⊖ Centre has formed a committee, **led by the Cabinet Secretary in compliance with this direction.**
- **Queer couples have the right to cohabit** without violence or interference, but no marriage recognition.



Kisan Pehchaan Patra(Farmer ID)

The Centre has made it **mandatory for new applicants to obtain a farmer ID for enrolment** into the **Pradhan Mantri Kisan Samman Nidhi (PM-Kisan)**.

- **PM Kisan provides income support of 6,000/- per year** in three equal instalments to **all land-holding farmer families.**

Kisan Pehchaan Patra

- This **Aadhaar-like digital identity** links farmers to state land records and **verifies land ownership.**
- The database created through the farmer ID will be known as **Farmer's Registry.**
 - ⊖ **Farmer's Registry** is one of the three registries under the **Agri-Stack (others being Geo-referenced village maps, and Crop Sown Registry).**

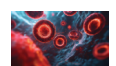


E-way bills

E-way bills in December was at second highest level in two years signalling supply chain recovery

About E-way bills

- E-way bills/electronic bills are required for **transporting goods valued over ₹50,000** within and across states.
- They serve as an **early indicator of economic activity** by tracking goods movement.
- It is generated from the **GST Common Portal** for the E-Way Bill system by registered persons or transporters
- Starting April 1, **Multi-Factor Authentication will become mandatory** for all taxpayers using the e-way bill system.



AnemiaPhone

Cornell University's AnemiaPhone technology, now transferred to ICMR, offers quick, accurate, and cost-effective iron deficiency assessment.

- ICMR will integrate it into its programs for anemia, women's health and maternal and child health throughout the country.

About Anemia in India

- **Anaemia** is a condition in which number of red blood cells or the haemoglobin concentration within them is lower than normal.
- It affects **59% of adolescent girls, 57% of women (15-49 years) and 67% of children (6-59 months) in India** (NFHS-5)
- **Anaemia Mukht Bharat strategy** uses a **6x6x6 approach** (6 target beneficiary groups, 6 interventions, 6 institutional mechanisms) to **reduce anaemia in the life cycle approach**.



Dhruv Advanced Light Helicopters (DALHs)

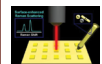
Hindustan Aeronautics Limited (HAL) has stated that DALHs flying safety records are better in comparison to global standards.

About Dhruv ALHs

- Is an **indigenously** developed utility aircraft by HAL with a **twin engine**.
- It has a **multi-role, multi-mission dimension** to it.
- It can be used for the **military as well as for civil operations**.

Variations

- **ALH Dhruv Mk III UT (Utility)**: Indian Army version, is designed for Search & Rescue, Troop Transportation, Internal Cargo, etc.
- **ALH Mk III MR (Maritime Role)**: Indian Coast Guard version, designed for Maritime Surveillance and Interdiction, Search and Rescue, Rappelling Operations, etc.



Surface-enhanced Raman spectroscopy (SERS)

Sustainable, efficient nano catalysts have been developed which have uses in environmental remediation, nanoscale electronics, and surface-enhanced Raman spectroscopy (SERS)

About Surface-enhanced Raman spectroscopy (SERS)

- It is a highly sensitive technique that enhances **Raman scattering** of molecules supported by nanostructured materials.
- **Raman Spectroscopy is a non-destructive chemical analysis technique** and provides Information such as
 - ⊖ chemical structure and identity,
 - ⊖ Intrinsic stress/strain,
 - ⊖ contamination and impurity.
- **Applications:** Nanotechnology, Biomedicine, Food Science, Environmental Analysis, Biochemistry and Biosensing etc.



EmpowHER Biz

The Women Entrepreneurship Platform (WEP) of NITI Aayog has launched EmpowHER Biz – Sapno Ki Udaan.

- WEP, incubated in NITI Aayog in 2018 as an aggregator platform have transitioned into a **public-private partnership** in 2022

EmpowHER Biz

- **Objectives**
 - ⊖ Empower women entrepreneurs by equipping them with the skills and resources needed.
 - ⊖ It will offer mentorship covering retail management, digital tools, financial literacy and business development to aspiring women entrepreneurs.



Gulf of Mexico

Recently, there has been a proposal to change name of **Gulf of Mexico** to "Gulf of America".

About Gulf of Mexico

- **Boundaries:** United States (North), Mexico (West and South), Cuba (South-east).
- It connects to the **Atlantic Ocean** through the **Straits of Florida** and to the **Caribbean Sea** via the **Yucatán Channel**.
- **Draining Rivers:** Mississippi River, Rio Grande
- **Control and Ownership:** Shared by **U.S., Mexico, and Cuba**
- **Significance:** Large continental shelf, oil and natural gas extraction, fisheries etc.
- **Vulnerability :** **Prone to hurricanes and twisters** due to warm waters and atmospheric conditions

Place in News



Chad (Capital: N'Djamena)

A recent assault on the Chadian presidential complex has left multiple dead.

Physical features:

- It is a **landlocked country in north-central Africa**, is often referred to as the "**Dead Heart of Africa**" due to its central location and arid climate.
- **Land Boundaries:** Libya (North), Sudan (East), Central African Republic (South), Cameroon (Southwest), Nigeria (Southwest), Niger (West).

Geographical Features

- **Climate:** Tropical in the south, desert in the north, with distinct wet and dry seasons.
- **Major Rivers:** Chari River, Logone River, and their tributaries.
- **Mineral Resources:** **Oil, Gold, Uranium, Natron**



AHMEDABAD



BENGALURU



BHOPAL



CHANDIGARH



DELHI



GUWAHATI



HYDERABAD



JAIPUR



JODHPUR



LUCKNOW



PRAYAGRAJ



PUNE



RANCHI