

UPSC Daily Current Affairs| One Liners 30-12-2025

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Polity & Governance

IS 19262: 2025 'Electric Agricultural Tractors – Test Code',

- **Released on** - National Consumer Day 2025, held at New Delhi.
- **Developed by** - Bureau of Indian Standards (BIS).
- **Objective** - To ensure the safety, reliability, and performance of electric agricultural tractors through uniform and standardized testing protocols.

IS 19445:2025 - Bomb Disposal Systems – Performance Evaluation and Requirements

- **Released on** - National Consumer Day 2025, held at New Delhi.
- Bomb disposal systems such as *bomb blankets, bomb baskets, and bomb inhibitors* are commonly used to mitigate explosive threats.
- **Key Provisions of IS 19445:2025**
 - A comprehensive framework for evaluating bomb disposal systems, particularly with respect to *blast loads and splinter effects*.
 - It specifies:
 - Requirements for *test equipment and test range conditions*.
 - *Evaluation procedures* to objectively assess system performance.
 - Defined *test methodologies, apparatus, test specimens, and acceptance criteria*.
 - The standard serves as a reference for *test sponsors, manufacturers, and accredited testing agencies*, enabling uniformity in testing, certification, and procurement practices.

Economy

Yuva Business Maha Sammelan-2025

- **Organized by** - Vishwa Umiya Foundation, in Ahmedabad, Gujarat.
- **Aim** - To provide youth with opportunities for business and technological exposure.
- **Launched** - An app developed by the *Vishwa Umiya Foundation* will enable direct connectivity between youth and clients, mentors, careers, and the market.

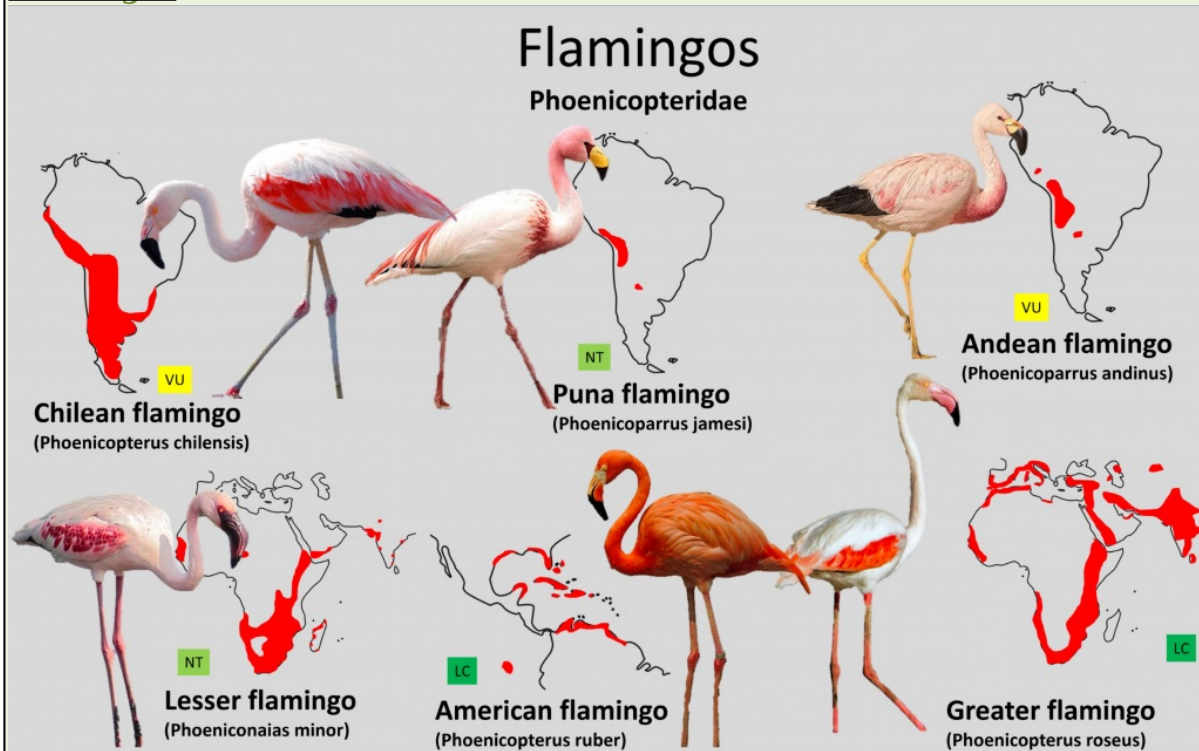
Environment

Sambhar Lake

Sambhar Lake as a crucial habitat for migratory Flamingos, highlighting ecological significance.

- It is the *largest inland saltwater lake*.
- **Located in** - It sits west of Jaipur (Rajasthan, NW India).
- **Designated as** - A Ramsar site in 1990.
- **Surrounded on** - All sides by the Aravalli hills.
- **Species** - Greater Flamingo (*Phoenicopterus roseus*) and Lesser Flamingo (*Phoeniconaias minor*).
- **Migration** - Winter visitors, attracted by *saline conditions and abundant food* (algae, brine shrimp).

Flamingos



Security

Mutual Support in Testing and Evaluation Services

- **MoU signed between** - National Test House (NTH) and Defence Materials and Stores Research & Development Establishment (DMSRDE).
- **MoU aims to facilitate** -
 - Collaborative research and testing activities.
 - Sharing of laboratory and instrumentation facilities.
 - Exchange of scientific and technical expertise.
 - Capacity building through seminars, workshops and training programmes.
 - Cooperation in areas of mutual interest and national importance.
- **Significance** - It contributes to self-reliance and national development through structured institutional collaboration.

National Test House (NTH).

- An institution under the *Department of Consumer Affairs, Ministry of Consumer Affairs, Food & Public Distribution.*
- It is an *NABL-accredited and BIS-recognised* laboratory.
- **Established in** - 1912.
- **Operates through** - A network of regional laboratories across the country.
- **Objectives** - To provide testing, inspection and quality assurance services for a wide range of industrial and consumer products in accordance with national and international standards.

Defence Materials and Stores Research & Development Establishment (DMSRDE)

- It is a laboratory of the *Defence Research & Development Organisation (DRDO)*, Ministry of Defence.
- **Established in** - 1929.
- **Objective** - To engage in research and development of non-metallic materials, including polymers, composites, elastomers, ceramics, technical textiles, fuels, lubricants and other speciality materials critical for defence applications.

Science

24×7 Passenger Assistance Control Room (PACR)

- **Established by** - Ministry of Civil Aviation.
- **Fully integrated with** - AirSewa system, enabling seamless handling of passenger grievances received through it.
- **Guided by** -
 - The principles of Passenger First,
 - Collaborative Action,
 - Stakeholder Convergence and a Future-Ready,
 - Technology-driven framework that enables real-time coordination,
 - Data-supported decision-making and scalable operations for sustained improvement in passenger assistance.
- **Objective** - To accelerate passenger grievance redressal.

Microrobot

- A *dust-grain-sized robot* with integrated onboard electronics, representing an advancement toward practical robot swarms.
- **Manufacturing** - *Chip fabrication techniques* are employed, which enable scalable mass production.
- **Power and Reprogramming** - The robot is powered by *solar cells* and can be reprogrammed using light signals transmitted by *LEDs*.
- **Capabilities** - It can store memory, execute code, measure temperature, and detect warmer regions.
- **Applications** - Anticipated uses include *micro-sensing, environmental monitoring, and future medical applications*.
- **Significance** - A step towards creating functional robot swarms.



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