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

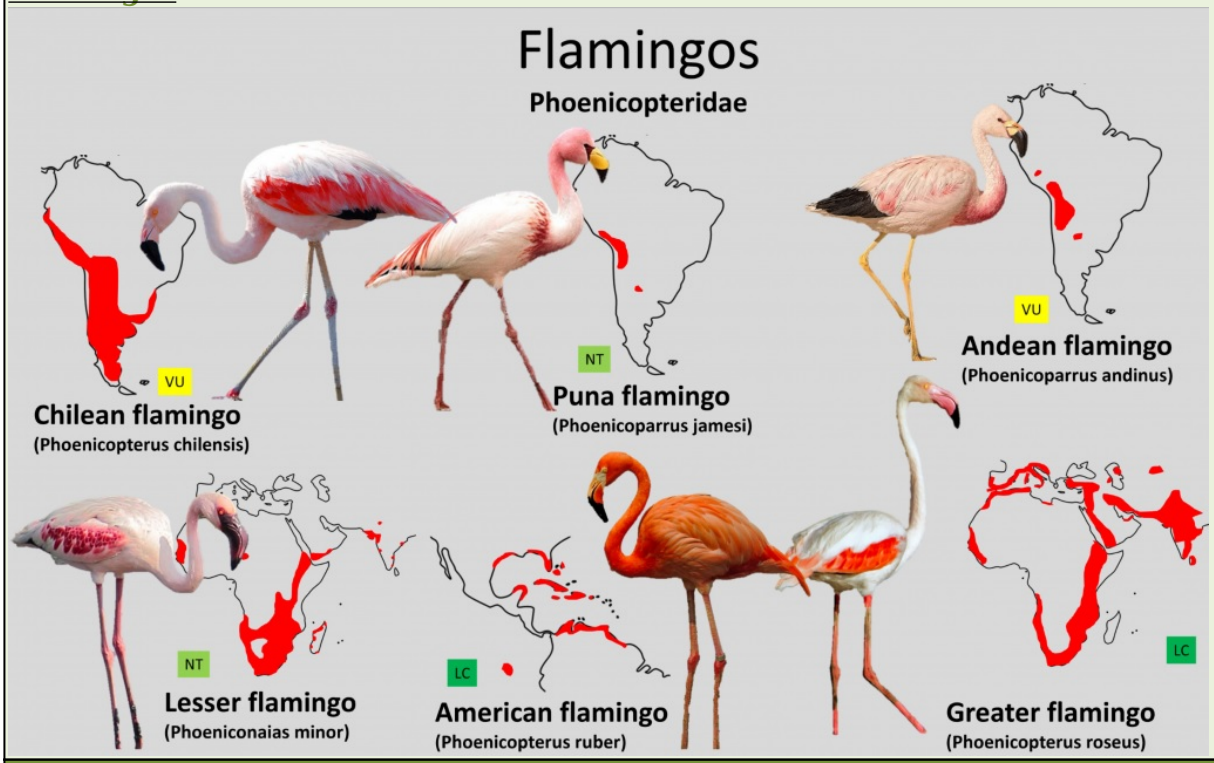
• **Organized by –** Vishwa Umiya Foundation, in Ahmedabad, Gujarat.
• **Aim –** To provide youth with opportunities for business and technological exposure.
• **Launched –** An app developed by the *Vishwa Umiya Foundation* will enable direct connectivity between youth and clients, mentors, careers, 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 an *NABL-accredited and BIS-recognised* laboratory.
• **Established in –** 1912.
• **Operates through –** A network of regional laboratories across the country.
• **Objectives –** To provides 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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