

Drones: Mapping Lands, Fighting Crimes and Boosting Agriculture | Haryana | 27 Dec 2023

Why in News?

According to officials, <u>Drones</u> are becoming integral to Haryana's governance strategy, from **enhancing traffic and crime surveillance to revolutionising agricultural practices.**

Key Points

- In a meeting conducted by the Drone Imaging and Information Systems of Haryana (DRIISHYA) Limited, Chief Secretary Sanjeev Kaushal explored the ways to harness the potential of drone technology across diverse sectors.
- To cater to the increasing demand, the agency is collaborating with DCP Traffic, Gurgaon and will be introducing drone-based land surveying on national highways.
- The agency is also set to augment its fleet with 20 new large-scale drones and six specialised agricultural drones designed for nano-fertiliser spraying demonstrations.
- DRIISHYA saw a recent recruitment drive of 20 drones and 16 co-pilots with rigorous examinations conducted in partnership with Deenbandhu Chhotu Ram University of Science and Technology, Murthal (Sonipat).

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DRONE GY LO ECHNO

Drone is a pilotless flying machine, using aerodynamics for lift, can operate autonomously or remotely, and may carry lethal or nonlethal cargo.

COMPONENTS.

- Unmanned aircraft (UA)
- Control system (ground control station GCS)
- Control link (specialized datalink)
- Other related support equipment

(as per Drone Rules, 2021)

- 🔌 Nano: <250 gm
 - Small: 25 kg to 150 kg 🔌 Large: >150 kg
- Micro: 250 gm to 2 kg
- Mini: 2 kg to 25 kg

APPLICATIONS

- Mapping & Surveying (asset Inspection, roof inspections)
- Agriculture (bird control, crop spraying & monitoring etc) Nultispectral/thermal/NIR cameras, Aerial Photo/
- videography and Live streaming events Semergency Response (search and rescue, marine
- rescue, fire fighting) Disaster (zone mapping, disaster relief etc)
- **Nining**
- Monitoring Poachers
- Meteorology, Aviation, Payload carrying

- Increased risk of armed attacks
- Data security
- Solution to procure drones Cheaper cost enables a larger population to procure drones
- Use of drones in warfare (remote warfare)
- Procurement by non-state actors can pose serious threats
- Ease in delivering mass destruction weapons

DRONES IN DEFENCE

Purpose

- Surveillance and Reconnaissance
 - Search and Rescue
- Maritime Surveillance
- Combat Drones
- Offensive (heterogeneous SWARM drones)
- Counter-Terrorism Operations

India's Counter-Drone System

- Indraiaal (India's inaugural autonomous drone-defense dome)
- Procurement of combat-capable Heron drones from Israel
- Acquisition of MQ-9B Armed Drones from the US

RELATED REGULATIONS

- Security Security Aircraft (Security) Rules, 2023 € 20
- S Drones Rules, 2021 and Drone (Amendment) Rules, 2022

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INDIA'S INITIATIVES

- Digital Sky Platform
- No-Permission-No-Takeoff (NPNT) framework
- PLI Scheme for Drones
- Drone Shakti Scheme



Illegal Immigration and Human Trafficking Cases | Haryana | 27 Dec 2023

Why in News?

According to the sources, there is an increase in the <u>Illegal immigration</u> and <u>human trafficking</u> cases in northern districts of Haryana.

Key Points

- Residents of Haryana have paid large amounts of money to reach abroad through illegal means in search of a better livelihood.
 - United States of America (USA), United Kingdom (UK), and Canada are preferred

destinations of these residents.

- According to the Haryana police there are 645 registered cases related to immigration fraud and human trafficking.
- Due to this a **state-level Special Investigation Team (SIT)** was formed, which is headed by Ambala range **Inspector General of Police (IGP).**
- The active districts for Illegal immigration and human trafficking are Ambala, Kurukshetra, Kaithal, Karnal, Panipat, parts of Yamunanagar, Jind and Fatehabad.

The Vision

PDF Refernece URL: https://www.drishtiias.com/statepcs/29-12-2023/haryana/print