

India Commercial Drones Market By Application (Agriculture & Forestry, Media & Entertainment, Mapping & Monitoring, Logistics, Others), By Payload (Less than 250 gm, 250 gm - 2 kg, above 2 Kg), By Type (Fixed Wing, High-Altitude Long Endurance (HALE), Unmanned Combat Aerial Vehicle (UCAV), Medium-Altitude Long-Endurance Unmanned Aerial Vehicle (MALE), Others), By Region, Competition, Opportunities and Forecast, 2021-2031F

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Abstracts

Market Overview

The India Commercial Drones Market was valued at USD 878.53 million in 2025 and is projected to reach USD 1430.12 million by 2031, growing at a CAGR of 8.46% during the forecast period. The market is experiencing substantial growth due to increasing deployment across industries such as agriculture, logistics, mining, construction, and surveillance. Eased regulatory frameworks, liberalized airspace policies, and supportive government initiatives have accelerated the adoption of drone technology. Enterprises are utilizing drones for faster surveys, real-time data collection, and efficient monitoring, while public initiatives are fostering local manufacturing and pilot training. This combination of private sector demand and policy-driven support is shaping a dynamic and rapidly expanding commercial drone ecosystem in India.

Key Market Drivers

Expanding Industrial Applications Across Key Sectors

Commercial drones are proving indispensable across various sectors, including agriculture, construction, logistics, and utilities, by offering real-time data, topographical analysis, and aerial surveillance. In agriculture, drones assist with crop health monitoring, pesticide spraying, and yield forecasting. Construction and infrastructure companies utilize drones for site mapping and inspection, leading to increased safety and accuracy. Logistics providers explore drone usage for inventory management and last-mile deliveries, while mining and energy sectors deploy drones for surveying challenging terrain and reducing on-site risks. These practical applications are accelerating adoption across domains. A notable example is the partnership between AgEagle Aerial Systems and Vyom Drones to produce and market eBee X drones in India, targeting precision agriculture across the nation's expansive 345 million acres of farmland. This initiative not only promotes local manufacturing but also strengthens India's position in the USD 631 million agricultural drone market, contributing to improved farming outcomes with minimal capital investment.

Key Market Challenges

Lack of Skilled Workforce and Training Infrastructure

While adoption is increasing, the commercial drone sector in India faces a significant talent gap in skilled professionals trained to operate, maintain, and interpret drone data effectively. Applications involving geospatial mapping, flight operations, imaging systems, and software integration demand specialized skill sets that are currently in short supply. The limited number of government-certified Remote Pilot Training Organizations (RPTOs) and the absence of a standardized training curriculum have led to inconsistent operator proficiency and safety standards. This shortage of trained personnel is a critical bottleneck for scaling commercial drone operations nationwide.

Key Market Trends

Rise of Drone-as-a-Service (DaaS) Business Models

Drone-as-a-Service (DaaS) is gaining traction as companies increasingly opt to outsource drone-related tasks rather than invest in drone ownership and internal operations. This model offers businesses access to aerial data collection, mapping, surveillance, and inspection services via specialized providers equipped with advanced sensors, flight management systems, and data analytics platforms. DaaS proves especially valuable for small and medium enterprises seeking cost-effective drone

solutions without heavy capital expenditure. As of 2023, India had over 13,000 registered drones and 63 DGCA-authorized RPTOs, reflecting the growing momentum in both drone deployment and skill development initiatives. This trend is expected to further accelerate as demand for flexible, end-to-end aerial solutions expands across sectors.

Key Market Players

Paras Aerospace

Garuda Aerospace

Newspace Research Technologies Pvt. Ltd

Tata Advanced Systems Limited

Marut Dronetech Private Limited

Ideaforge Technology Ltd.

Asteria Aerospace Limited

Iotechworld

Thanos

Hubblefly Technologies

Report Scope:

In this report, the India Commercial Drones Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Commercial Drones Market, By Application:

Agriculture & Forestry

Media & Entertainment

Mapping & Monitoring

Logistics

Others

India Commercial Drones Market, By Type:

Fixed Wing

High-Altitude Long Endurance (HALE)

Unmanned Combat Aerial Vehicle (UCAV)

Medium-Altitude Long-Endurance Unmanned Aerial Vehicle (MALE)

Others

India Commercial Drones Market, By Payload:

Less than 250 gm

250 gm - 2 kg

Above 2 Kg

SUV/MPV

India Commercial Drones Market, By Region:

North

South

East

West

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Commercial Drones Market.

Available Customizations:

India Commercial Drones Market report with the given market data, TechSci Research offers customizations according to the company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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