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DRDO Successfully Completes Trials of UAV-Launched Precision Guided Missile

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The Defence Research and Development Organisation (DRDO) has successfully completed the final development trials of the Unmanned Aerial Vehicle Launched Precision Guided Missile (ULPGM)-V3 in both Air-to-Ground and Air-to-Air modes. The trials were conducted at the DRDO test range near Kurnool in Andhra Pradesh. The successful tests mark a major boost to India's indigenous defence capabilities and the "Aatmanirbhar Bharat" initiative.?

Key Features of ULPGM-V3:

The ULPGM-V3 is an advanced missile designed for launch from Unmanned Aerial Vehicles (UAVs) or drones.

Important features include:

Fire-and-forget precision strike capability

Ability to engage both ground and aerial targets

Dual operational modes:

Air-to-Ground

Air-to-Air

Equipped with advanced seeker technology

Modular warhead configuration

Day-and-night operational capability

Two-way data link for post-launch target updates

Suitable for targeting:

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Tanks
Bunkers
Drones
Helicopters
Other airborne threats

Importance of the Development

The successful trials demonstrate India's growing capability in:

Indigenous missile technology
UAV-based warfare systems
Precision-guided strike weapons
Defence manufacturing self-reliance

The trials also confirmed that the domestic defence supply chain is ready for serial mass production of the missile system.

Role of Ground Control System (GCS):

The trials used an Integrated Ground Control System (GCS) to command and control the missile system.

The GCS:

Automates launch operations
Improves operational readiness
Enhances targeting and mission control efficiency

Defence Research and Development Organisation (DRDO):

Established: 1958
Headquarters: New Delhi
Chairman: Samir V. Kamat,

Andhra Pradesh in Defence News:

Kurnool's National Open Area Range (NOAR) has emerged as an important testing facility for advanced missile and UAV systems.

UAV (Unmanned Aerial Vehicle):

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Commonly known as drones

Used for:

Surveillance

Reconnaissance

Precision strikes

Intelligence gathering

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