



DRDO tests laser weapon system that can disable missiles and drones

Location & Test Environment

- Test conducted at **National Open Air Range, Kurnool, Andhra Pradesh**, a dedicated testing facility for advanced defence systems.
- Demonstration in real-world conditions boosts combat readiness of the technology

Basic Facts

- Organisation: Defence Research and Development Organisation (DRDO)
- Weapon System: Mk-II(A) Laser-Directed Energy Weapon (DEW)
- Trial Dates: 13.4.25
- Outcome: Cutting Target



Technological Milestone

- It demonstrates India's entry into the elite club of nations possessing high-power laser weapon technology.
- Part of India's push for indigenous, futuristic, and asymmetric warfare capabilities.

Capabilities of the DEW Mk-II(A)

- High-energy laser system designed to engage and destroy aerial targets, such as:
 - Fixed-wing drones
 - Incoming missiles

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- o Surveillance equipment (sensors, antennae)
- Exhibits full-spectrum capability, including:
 - Multiple drone attack interception
 - Precision destruction at long range
 - o Lethal response within seconds of target detection

Key Features

- Lightning-speed engagement due to laser traveling at speed of light.
- Targets are identified via:
 - Radar detection
 - Electro-Optic (EO) system
- Laser beam causes structural failure or destroys sensitive components, including warheads.

Cost Efficiency

- Operating cost is **extremely low** equivalent to the price of a **few litres of petrol**.
- Offers a cost-effective, low-maintenance alternative to conventional ammunition-based defence.

Strategic Significance

- Strengthens India's **counter-drone** and **air defence** architecture amid rising drone threats.
- Helps in reducing dependence on kinetic weapons and foreign arms imports.
- Can be deployed in **border areas**, naval ships, and for critical infrastructure protection.

Broader Implications

- Enhances India's reputation as a **technology leader** in defence innovation.
- Promotes Make in India and Atmanirbhar Bharat initiatives in high-end defence R&D.
- Could revolutionize **rules of engagement** in future warfare by reducing **collateral damage** and **ammunition logistics**.

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