

Directed Energy Weapons

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Directed Energy Weapons Latest News

Recently, the Apollo Micro Systems has secured Defence Research & Development Organisation approval to get access to Directed Energy Weapon (DEW) systems technologies from two DRDO entities.

About Directed Energy Weapons

- It uses **concentrated energy from electromagnetic** or particle technology, rather than kinetic energy.
- Directed Energy Weapon systems use **high-powered lasers** to inflict damage on targets.
- DEW **uses directed energy** to heat up and destroy or damage the target.

Capabilities of Directed Energy Weapons

- **Precision and Low Collateral Damage:** DEWs can target specific weak spots of enemy systems, motors, electronics, or wings, minimising collateral damage.
- **Rapid Response:** DEWs engage with targets at the **speed of light**, eliminating fast-moving threats in real time.

- **Cost and Logistics:** DEWs have low operational costs, only requiring a continuous supply of electricity to work indefinitely.
- **Counter-Drone and Stealth Technology:** DEWs are uniquely positioned to tackle swarm drones while ensuring there are no sounds or explosions, giving them stealth capabilities.
- **Applications Directed Energy Weapons:** It has diverse **military applications**, offering rapid and precision strikes against threats such as **unmanned aerial vehicles** (UAVs), missiles and small vehicles and can be used in all war fighting environments.

Source: TH

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