Indigenously developed Laser Dazzler for armed forces

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In news

BEL signs contract with Indian Navy for Initial supply of indigenously developed Laser Dazzlers

About Light Amplification by Stimulated Emission of Radiation Dazzlers (Laser Dazzlers)pre

- The Laser Dazzler is used as a **non-lethal method for warning and stopping suspicious vehicles/boats/aircrafts/UAVs/pirates etc**. from approaching secured areas during both day and night.
- This unique product **is indigenously designed and developed for first time for the Armed Forces.**
- It is **capable of dazzle and thereby suppress the person's/optical sensor's action with disability glare in case of non-compliance to orders**.
- It disorient**/ confuse/blind a person temporarily.**
- It also dazzles and distract aircraft/UAVs.
- It is a portable, shoulder operated and ruggedized for military use in adverse environmental conditions.
- Laser dazzler technology was **developed by Defence Research and Development Organisation (DRDO)**
- Dazzlers emit infrared or invisible light against various electronic sensors, and visible light against humans, when they are intended to cause no long-term damage to eyes.
- The emitters are usually lasers, making what is termed a *laser dazzler* Laser dazzler has a wider laser beam than regular laser pointers.

Border Electronically Dominated QRT Interception Technique (The BOLD-QIT)

- BOLD-QIT is the project to install technical systems under the Comprehensive Integrated Border Management System (CIBMS), which enables BSF to equip Indo-Bangla borders with different kind of sensors in unfenced riverine area of Brahmaputra and its tributaries.

CIBMS involves deployment of a range of state-of-the-art surveillance technologies – thermal imagers, infra-red and laser-based intruder alarms, aerostats for aerial surveillance, unattended ground sensors that can help detect intrusion bids, radars, sonar systems to secure riverine borders, fibre-optic sensors and a command and control system that shall receive data from all surveillance devices in real time.

- In January 2018, the information and technology wing of the BSF undertook project BOLD-QIT and completed it in record time with the technical support of various manufacturers and suppliers
- It has been implemented along the 61-km India-Bangladesh border in Dhubri district of Assam to tackle cross-border crimes and it provides respite to BSF personnel from round-the-clock patrolling.
- The BOLD-QIT covers the proposed area with data network generated by microwave communication, OFC cables, day and night surveillance cameras and intrusion-detection system
- These modern gadgets provide feeds to the BSF control rooms along the border and enable the paramilitary force’s quick reaction teams to thwart any possibility of illegal border crossing and crimes.
- It helps to equip the unfenced areas along the riverine border with sensors, enabling the troops to take prompt action against intrusion.