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## Lightest Bullet Proof Jacket | Uttar Pradesh | 25 Apr 2024

### Why in News?

[Defence Research and Development Organisation \(DRDO\)](#)'s **Defence Materials and Stores Research and Development Establishment (DMSRDE)**, Kanpur has successfully developed the lightest Bullet Proof Jacket in the country for protection against Level 6 of BIS 17051 ammunition.

### Key Points

- This bullet proof jacket was successfully tested at **Terminal Ballistics Research Laboratory (TBRL)** Chandigarh.
- This jacket is based upon a new design approach, where novel material along with new processes have been used.
- The front **Hard Armour Panel (HAP)** of this jacket defeats multiple hits in both ICW (In-conjunction with) and Standalone design.
- The ergonomically designed front HAP is made up of monolithic ceramic plate with polymer backing which enhances the wearability and comfort during the operation.

### Terminal Ballistics Research Laboratory (TBRL)

- TBRL is an important **DRDO lab based in Chandigarh** and it is actively involved in development, production, processing and characterisation of different high explosive compositions, Blast, Lethality and Fragmentation studies of warheads, shells and other ammunitions, Captive flight testing of Bombs, Missiles and Airborne systems, Ballistics evaluation of various protective system like body armour, vehicle armour and helmets against small arm ammunition etc.

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