MQ-9B UNMANNED AERIAL VEHICLE: SCIENCE & TECHNOLOGY

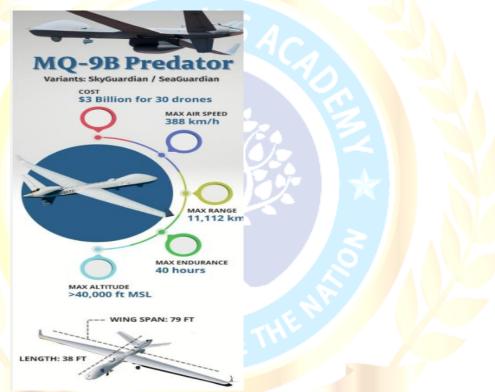
NEWS: CCS clears deals for 31 MQ-9B drones and submarines

WHAT'S IN THE NEWS?

The Cabinet Committee on Security has approved the acquisition of 31 MQ-9B UAVs and the indigenous construction of two nuclear attack submarines (SSNs). This decision underscores India's commitment to enhancing its defence capabilities across the three-armed services.

MQ-9B High Altitude Long Endurance (HALE) UAVs:

• Altitude: Operates above 18,000 feet.



- Endurance: Can fly continuously for over 24 hours.
- Applications: Primarily used for Intelligence, Surveillance, Reconnaissance (ISR), and targeted strikes.
- Notable Example: MQ-9B, also known as the Reaper.
- **Features**: Equipped with advanced sensors, cameras, and real-time data transmission capabilities.



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• **Strategic Importance**: Enhances situational awareness and operational capabilities, reducing risk to human life in combat zones.



Key Points on Nuclear Attack Submarines (SSNs):

- Operational Role: Provide second-strike capability in the event of a nuclear attack.
- **Indigenous Development**: India's SSBN fleet developed under the Advanced Technology Vessel (ATV) program.
- Current Fleet: INS Arihant (commissioned in 2016) and INS Arighaat (2023).
- **Displacement**: Typically displaces 6,000 to 7,000 tons.
- Range: Equipped with intercontinental ballistic missiles (ICBMs) with a range over 5,000 km.
- **Significance**: Enhances national security, deterrence, and ensures strategic autonomy.

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