



Shakti: Advanced Electronic Warfare Suite

Why in News

The Prime Minister **handed over the Advanced Electronic Warfare (EW) Suite 'Shakti' to the Indian Navy** at a ceremony held as part of **Rashtra Raksha Samarpan Parv** on 19th November, 2021.

- Rashtra Raksha Samarpan Parv is part of the '[Azadi Ka Amrit Mahaotsav](#)' celebration.
- The PM also handed over [indigenously-built Light Combat Helicopter \(HAL's LCH\)](#), and two small drones ('SWITCH 1.0 UAV' and 'MR-20) built by Indian start-ups **to the Air Force**.



Key Points

▪ About:

- It will **provide an electronic layer of defence** against modern radars and anti-ship missiles to ensure electronic dominance and survivability in the maritime battlefield.
 - This system will replace the earlier **generation EW Systems** of the Indian Navy.
- The system has been **integrated with the wideband Electronic Support Measures (ESM) and Electronic Counter Measure (ECM)** for the defence of Indian Navy Ships against missile attacks.
- It will **help in finding accurate direction** and interception of modern radars.
 - The system has a **built-in radar fingerprinting** and data recording replay feature

for post-mission analysis.

- It will **enhance the capabilities of the Indian Navy** and termed it as a major milestone towards **Atmanirbhar Bharat** in areas of advanced defence technologies.

▪ **Designed By:**

- Defence Electronics Research Laboratory (DLRL) Hyderabad.
 - It is a laboratory of **Defence Research and Development Organisation (DRDO)** for Capital Warships of the Indian Navy for the interception, detection, classification, identification and jamming of conventional and modern Radars.

▪ **Shakti System:**

- **First Shakti system** has been **installed on-board INS Visakhapatnam** and is being installed on-board **Indigenous Aircraft Carrier, INS Vikrant**.
- Twelve Shakti Systems are under production at **Bharat Electronics Ltd (BEL)** supported by more than fifty **Micro, Small and Medium-sized Enterprises (MSMEs)** at a total cost of Rs 1805 Crores.
- These systems are scheduled to be installed on-board capital warships under production, including **P-15B**, **P-17A** and **Talwar class** follow-on ships.

Source: PIB

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