

Nipun mines & F-INSAS

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In news- Defence Minister of India has recently handed over indigenously-developed equipment and systems including Future Infantry Soldier as a System (F-INSAS), Nipun to the Indian Army.

Future Infantry Soldier as a System(F-INSAS)-

- Future Infantry Soldier is being equipped with three primary sub systems.
- The first sub system is the modern state of art assault rifle along with day and night holographic and reflex sights. The sights are mounted on the weapon and also on helmet to enable a 360-degree visibility and accuracy in operational conditions.
- In addition to the primary weapon system, the soldiers will also be kitted with multi-mode hand grenade which has also been procured indigenously along with multi-purpose knife.
- The second sub system is protection system. This gives protection through a specially designed helmet and a bullet proof jacket.
- The third sub system consists of communication and surveillance system. This F-INSAS system is capable of further upgradation by incorporating real time data connectivity.

Anti-Personnel mine 'Nipun'-

- With the efforts of Armament Research and Development Establishment, Pune and the Indian industry, **a new Indian mine named 'Nipun'** has been developed.
- It will **enhance the protection provided to the troops on the borders**. The mine is more potent and effective than the existing anti-personnel mine.

Commander Thermal Imaging Sight for T-90 tank-

- This equipment gives **enhanced visibility and range to the commanders of armoured columns**. Earlier, in T-90 tanks had image intensification systems which had its own limitations and constraints.
- The limitations have been overcome by use of thermal imaging sight produced by India Optel Limited.

Landing Craft Assault (LCA)

- There are boats operating in Pangong Tso lake, however, they have limited capabilities. The LCA is much more versatile and has overcome the limitations of launch, speed and capacity. It has enhanced the capability to operate across the water obstacles in Eastern Ladakh. LCA has been indigenously developed by M/s Aquarius Ship Yard Limited, Goa.
- The equipment/systems have been jointly developed by Indian Army in collaboration with Defence Public Sector Undertakings, Defence Research & Development Organisation (DRDO) and the Industry.

The list of the equipment and systems handed over to the Indian Army are as follow:

- Hand Held Thermal Imager (Uncooled)-
- Downlink Equipment with Recording Facility
- Semi Ruggedised Automatic Exchange System Mk-II
- Upgraded Radio Relay (Frequency Hopping)
- Solar Photovoltaic Energy Project
- Mini Remotely Piloted Aerial System (RPAS)
- Infantry Protected Mobility Vehicle (IPMV)
- Quick Reaction Fighting Vehicle (Medium)