Dhanush is a 155x45 Calibre indigenous gun developed by OFB. Dhanush as an artillery system has proved to be one of the best amongst its class. A 45 Calibre towed gun system capable of targeting at long ranges incorporating autonomous laying features and having one of the most sophisticated suites of electronic and computing systems in the world. The weapon has got maximum range greater than 8 to 10 Kms in comparison to the existing in-service 155mm x 39 Cal Bofors Guns with better accuracy. It can fire all types of ammunition available with Indian Army.

It is a ‘Make in India’ effort in true sense with more than 80% indigenous items. To develop this gun, OFB has utilised the expertise available with DPSUs and Indian private industry like BEL, MIDHAMI, M/s Dental.

With the development of Dhanush, India has developed the capability to manufacture 155mm Guns for which the country was till now dependent on foreign countries.
130mm Gun is of Russian origin and was the mainstay of the Indian Army for long. Indian Army desires to upgrade these Guns to 155/45 Cal, which increases its range from 27 Km to 38 Km.

OFB has completed the upgradation and made ready the prototypes. Internal firing trials of OFB guns conducted at PFFR from 11th to 21st January, 2016 satisfactorily. This is an indigenous effort made by OFB.

**155mm x 52 Cal Towed Gun System**

Indian Army has a requirement of 155mm x 52 Cal Towed Gun Systems, for which RFP was floated. OFB, as a proactive approach, initiated action for developing 155mm x 52 Cal Towed Gun Systems through in-house R&D efforts. As a part of this effort, 155X52 Cal Towed Gun developed in-house by OFB has been proof fired successfully in August 2015.

This once again proves in-house capability available with OFB to design/develop Artillery guns.
L-70 UPGRADE

OFB manufactured 40 mm L-70 Gun from 1962-63 onward. The original design of this gun is of erstwhile Bofors, Sweden. This Gun has remained the mainstay of the Army Air Defence for long.

OFB in association with BEL has upgraded this gun with features like, All-electric Drive (to enable faster) response, Optronic Sight (for target acquisition and to give it Day and Night fighting capability) and Ballistic computer (to calculate the firing angle for maximum hit probability).

The upgraded guns are being supplied to Indian Army by OFB/BEL against their order received after competitive bidding.

105mm Vehicle Mounted Gun System
In modern warfare, time of response and surprise element are important to win any battle. An Arty weapons mounted on a vehicle provides it with shoot-and- scoot capability to reduce reaction time and add the surprise element.

Considering the above requirement, OFB has developed a Vehicle mounted 105mm gun system. Demonstration cum trial has been conducted at Artillery School, Deolali to evaluate stability, accuracy, consistency and mobility.

It is a completely indigenous effort with 100 % sub-assemblies/components produced indigenously.

**KAVACH Chaff Launcher**

Kavach is a naval decoy system to distract radar-guided missiles from their targets and act as a system for self-defence. The Kavach decoy system releases chaff made up of silver coated glass fiber. The chaff forms a clutter which remains suspended in the air so that the incoming guided missile confuses the chaff as the actual target and gets locked onto the chaff instead of the actual target.

The Indian Navy used to import Anti-submarine Warfare Rockets (“ASW”) from the former USSR. The Ordnance Factory Board and the Indian Navy/DGONA took up
the challenge to indigenize these ASW rockets and achieve self-reliance in this field. Kavach was developed to achieve this objective. Presently two versions of Kavach viz Kavach Mod-I and Mod-II manufactured by OFB are under exploitation by Indian Navy.

**Naval Gun CRN-91**

The Close Range Naval-91 (CRN-91) is a naval version of the 30mm automatic gun installed on the Sarath ICV. The Gun has been developed by OF Medak in association with DGONA/Indian Navy. CRN-91 designed to be mounted on ships, and is made of special material suited for marine environment.

The CRN-91 Naval gun is gyro stabilized and is directed by electro-optic fire control system (EOFCS) for day and night use. It can also be remotely operated. Due to its low its operational cost, it is most suited for vessels primarily designed for peacetime patrolling and policing, particularly for anti-insurgency, anti-smuggling, anti-pirate and maritime surveillance of exclusive economic zones (EEZ). It has been installed on many small warships. The indigenous CRN 91 Gun with EOFCS gives them the requisite firepower to undertake their basic role of patrolling effectively.
5.56MM ASSAULT RIFLE (MODIFIED INSAS)

- OFB has manufactured and supplied 5.56mm INSAS to Indian Army and MHA since 1991, as per DRDO design.

- Indian Army also expressed its intent for induction of an improved version of 5.56 Assault Rifle. Accordingly OFB took up development of 5.56mm Assault Rifle. OFB has successfully developed Modified INSAS (5.56mm). In the overall analysis the 5.56mm Assault Rifle is a well-balanced, accurate and smooth functioning weapon with potent auto fire ability. The weapon renders itself to be used instinctively and more so with the fitment of reflex sights.

- Infantry School, Mhow has recommended for its induction in services as replacement of INSAS for role of CQB and CI operations. The Rifle was also evaluated by Indian Coast Guard and they have found the Rifle acceptable and meeting their requirement. The Rifle is already in service with Assam Rifles, Tamil Nadu Police, Chhattisgarh Police, Karnataka Police, Bihar Police and others.

- Induction of this weapon in Indian Army and other services will not only lead to huge saving of foreign exchange as it was earlier planned to be imported from foreign OEMs but will also help in making the country self-reliant in this area.
7.62 X 51 MM LMG (BELT FED)

• Army has a requirement of 7.62 LMG, for which RFP was issued in June‘2014.

• Even though OFB is nominated Production Agency in the RFP, OFB has taken-up the challenge of developing this weapon indigenously and working closely with ARDE, Pune.

• OFB plans to shortly to offer indigenously developed 7.62mm LMG required by Indian Army.