

Testwale Current Affairs PDF

Current Affairs search results for: "DRDO"

1. New generation ballistic missile 'Agni P' successfully test-fired by DRDO (Dec. 19, 2021)

- Defence Research and Development Organisation (DRDO) successfully tested the new generation nuclear capable medium range surface to surface ballistic missile 'Agni P' from Dr APJ Abdul Kalam island off the coast of Odisha on December 18, 2021.
- The Agni P is a two-stage canisterised solid propellant ballistic missile with a dual redundant navigation and guidance system that can be launched from rail and road and stored for a longer period.
- The range of the New Generation Agni P missile is 1000KM to 2000 Km.

DRDO head Dr. G. Satheesh Reddy.

2. Successful Launch of supersonic missile Assisted-Torpedo (SMART) (Dec. 15, 2021)

The Defence Research and Development Organisation (DRDO) successfully launched **Supersonic Missile Assisted-Torpedo System (SMART)** from Abdul Kalam Island (formerly known as Wheeler Island), Orissa on 13th December 2021.

Key Highlights:

- It is a missile assisted release of the lightweight Anti-Submarine Torpedo System for anti-submarine warfare (ASW) operations far beyond torpedo range.
- It is a canister based missile system, consisting of advanced technologies viz. two stage solid propulsion, electro-mechanical actuators and precision inertial navigation. The missile is launched from a ground mobile launcher and it can cover a range of distances.
- The system is a next-generation missile-based standoff torpedo delivery system.
- The missile is set to **enhance anti-submarine warfare capability of the Indian navy.**



Torpedo

A torpedo is an underwater ranged weapon launched above or below the water surface, self-propelled towards a target, and with an explosive warhead designed to detonate either on contact with or in proximity to the target.

Heavy Torpedo

- **The Varunastra** is an Indian advanced heavyweight anti-submarine torpedo, developed by Naval Science and Technological Laboratory (NSTL) of the Defence Research and Development Organisation (DRDO) for the Indian Navy.
- It can be fired from Anti-Submarine Ship of the Indian Navy
- It has a range of 40 KM.
- It has been inducted in the Indian Navy.

Advanced Lightweight Torpedo

- The Advanced Light Torpedo (TAL) **Shyena** (Sanskrit: श्येन, "Falcon or Hawk") is being developed by the Naval Science and Technological Laboratory (NSTL) of the Defence Research and Development Organisation (DRDO) for the Indian Navy.
- It has a range of 19 KM.
- The lightweight torpedo can be launched by ships, submarines, helicopters and Ilyushin Il-38 aircraft.

3. Raksha Mantri Shri Rajnath Singh hands over DRDO developed products to Armed Forces (Dec. 15, 2021)

Key Highlights

- Raksha Mantri Shri Rajnath Singh handed over five Defence Research and Development Organisation (DRDO) developed products to the Armed forces and other security agencies at an event held at DRDO Bhawan, New Delhi on December 14, 2021, as part of ***Azadi Ka Amrit Mahotsav celebrations and iconic week of Ministry of Defence.***
- Raksha Mantri said that the government is working in a concerted manner to realize the objective of “**Make in India**” and “**Make for the World**” by bringing in several policy reforms such as increasing FDI in the Defence sector to 74%, creation of defence corridors in Uttar Pradesh and Tamil Nadu, etc.
- He also handed over six ***Transfer of Technology (ToT)*** agreements to seven public and private sector companies. Earlier DRDO organised a Seminar on “Preparing For The Future”.

Products handed over to different Armed Forces are:

- **To the Armed Forces & Ministry of Home Affairs**
 - Anti-Drone system,
 - Modular Bridge,
 - Smart Anti Airfield Weapon,

- Chaff Variants and the Light Weight Fire Fighting Suit.
- **To the CISC**
 - The counter drone systems, developed by DRDO for detection, deterrence and destruction of incoming drones.
- **To the Chief of Army Staff General M M Naravane**
 - Modular Bridge developed by R&DE (Engineers).
 - It is a single span, mechanically launched assault bridge of military load class MLC-70, and can be launched in different spans.
- **To the Chief of the Air Staff Air Chief Marshal V R Chaudhari**
 - Smart Anti Airfield Weapon (SAAW), an air launched, long-range, stand-off, air-to-surface Smart Bomb.
- **To the Chief of the Naval Staff Admiral R Hari Kumar**
 - The variants of Advanced Chaff.
- **To the Special Secretary, MHA, Shri V S K Kaumudi**
 - Structural fire-fighting suit developed by DRDO's Centre for Fire, Explosive and Environment Safety (CFEES).
- **The LAToT documents of seven DRDO developed systems for the systems/ technologies**
 - Coastal Surveillance Radar,
 - Automatic Chemical Agent Detection and Alarm (ACADA) & Chemical Agent Monitor (CAM),
 - Unit Maintenance Vehicle,
 - Unit Repair Vehicle,
 - Fused Silica based Ceramic Core technology and
 - the Fire Suppressing Gel.
- Secretary, DDR&D and Chairman, DRDO **Dr G Satheesh Reddy**; Vice Chiefs of Army, Navy and Air Staff, other senior civil and military officials of Ministry of Defence and Home Affairs were also present on the occasion.

4. Defence (Dec. 12, 2021)

1. India -Maldives military exercise

11th Edition of Exercise EKUVERIN between **India & Maldives** will be conducted at **Kadhdhoo Island, Maldives from 06 to 19 December 2021.**

- The exercise will enhance synergy & inter-operability between Armed Forces of both the Nations in terms of understanding transnational terrorism both on land & at sea, conducting Counter Terrorism & Counter Insurgency Operations and sharing best military practices and experiences.

2. DRDO successfully tests VL-SRSAM

Defence Research & Development Organisation (DRDO) on 7th December successfully flight tested Vertical Launch Short Range Surface to Air Missile(VL-SRSAM) by Defence Research & Development Organisation (DRDO) from Integrated Test Range, Chandipur, off the coast of Odisha.

3. Air version of BrahMos supersonic cruise missile successfully test-fired from Sukhoi 30 MK-I off Odisha coast

Air version of BrahMos supersonic cruise missile was successfully test fired from the supersonic fighter aircraft Sukhoi 30 MK-I at 1030 hrs on 7th December, from Integrated Test Range, Chandipur off the coast of Odisha .

4. Lockheed Martin to make fighter aircrafts wings prototype in India

- US defence company Lockheed Martin has selected Tata Lockheed Martin Aerostructures Ltd (TLMAL) as a potential future co-producer of fighter aircraft wings in India.
- TLMAL, is a joint venture between Tata Advanced Systems Ltd and Lockheed Martin Aeronautics of the United States.
- Lockheed Martin is a major defence company of the United States which manufactures a number of defence products like F-16,F-21,F-22,F-35.

5. DRDO Successfully test Multi-barrel rocket launcher Pinaka ER

- Defence Research and Development Organisation (DRDO) has successfully tested multi barrel rocket launcher Pinaka Extended Range at Pokhran, Rajasthan
- The system is jointly designed by laboratories of Defence Research and Development Organisation (DRDO) - Armament Research & Development Establishment (ARDE), Pune and High Energy Materials Research Laboratory (HEMRL), Pune.
- The enhanced range version of the Pinaka Rocket System can destroy targets at distances up to 45km.

5. DRDO successfully test Stand Off Anti-Tank missile (Dec. 12, 2021)

- Defence Research and Development Organisation (DRDO) and Indian Air Force (IAF) flight-tested the indigenously designed and developed Helicopter launched Stand-off Anti-tank (SANT) Missile from Pokhran ranges in Rajasthan
- The SANT missile has been designed and developed by Research Centre Imarat (RCI), Hyderabad in coordination with other DRDO labs and participation from industries.

The target range of the SANT missile is upto 10 KM..

6. DRDO Successfully test Multi-barrel rocket launcher Pinaka ER (Dec. 11, 2021)

- Defence Research and Development Organisation (DRDO) has successfully tested multi barrel rocket launcher Pinaka Extended Range **at Pokhran, Rajasthan**
- The system is jointly designed by laboratories of Defence Research and Development Organisation (DRDO) - Armament Research & Development Establishment (ARDE), Pune and High Energy Materials Research Laboratory (HEMRL), Pune.
- The enhanced range version of the Pinaka Rocket System can destroy targets at distances up to 45km.

7. Air version of BrahMos supersonic cruise missile successfully test-fired from Sukhoi 30 MK-I off Odisha coast (Dec. 8, 2021)

Air version of BrahMos supersonic cruise missile was successfully test fired from the supersonic fighter aircraft Sukhoi 30 MK-I at 1030 hrs from Integrated Test Range, Chandipur off the coast of Odisha .

The launch is a major milestone in the BrahMos development. It clears the system for the serial production of air-version BrahMos missiles within the country.

Brahmos

BrahMos is a Joint Venture between India (DRDO) and Russia (NPOM) for the development, production and marketing of the supersonic cruise missile.

The company was established on 12 February 1998 with India holding 50.5% share and Russia holding 49.5% shares.

Brahmos is the first supersonic cruise missile in the world with a range of 290 km.

Brahmos missile is being developed for the Air force, Navy and Army .

8. DRDO successfully tests VL-SRSAM (Dec. 8, 2021)

Defence Research & Development Organisation (DRDO) successfully flight tested Vertical Launch Short Range Surface to Air Missile(VL-SRSAM) today by Defence Research & Development Organisation (DRDO) from Integrated Test Range, Chandipur, off the coast of Odisha.

The air defence system is being developed by DRDO for naval warships and the new system can engage targets at a range of 15 KM.

DRDO

It is a premier research and development agency engaged in developing new weapons and systems for the Indian Armed forces .

Under the Integrated Guided Missile Development Programme(IGMDP) launched in the 1980s it developed a number of missile systems for India like Prithvi, Agni ,Akaash, Nag etc.

- It was established in 1958
- Its Headquarters : New Delhi
- Its current chairman :Dr G Satheesh Reddy
- It comes under the Ministry of Defence. Government of India .
- **Missile Testing site in India :**

The Integrated test range of DRDO to test missiles is at **Abdul Kalam Island**(earlier called as wheeler Island)and **Chandipur Island** off the coast of Odisha in Bay of Bengal.