



Embassy of India, Berne

INDIA SCIENCE AND INNOVATION WEEKLY

13 December 2021

*Ask the right questions, and nature will open the door to her secrets
- Dr. C.V. Raman, The Nobel Prize in Physics 1930*

DRDO successfully tested the indigenously developed fuzes, Pinaka-ER and ADM

Defence Research and Development Organisation (DRDO) successfully carried out the tests of Pinaka Extended Range (Pinaka-ER), Area Denial Munitions (ADM) and indigenously developed fuzes. The Pinaka-ER system is jointly designed by laboratories of DRDO – Armament Research & Development Establishment (ARDE), Pune and High Energy Materials Research Laboratory (HEMRL), Pune. DRDO further updated that with this, the initial phase of technology absorption of Pinaka-ER by the Industry Partner has successfully been completed making the Industry Partner ready for series production of the rocket system. These tests are part of performance evaluation under technology absorption.

Ministry of AYUSH established Research Projects on Ayush Medicines

To undertake research projects on Clinical Research, Drug standardization research, Pharmacovigilance research, Clinical verification of medicines, Fundamental Research and Literary research, Ministry of AYUSH established 4 separate Central Research Councils i.e. 'Central Council for Research in Ayurvedic Sciences (CCRAS)', 'Central Council for Research in Unani Medicine (CCRUM)', 'Central Council for Research in Siddha (CCRS)' and 'Central Council for Research in Homoeopathy (CCRH)'. Ministry is also implementing AYURGYAN Scheme for Research & Innovation in AYUSH.

DRDO successfully flight tested the Vertical Launch Short Range Surface to Air Missile

Defence Research & Development Organisation (DRDO) successfully flight tested the Vertical Launch Short Range Surface to Air Missile from Integrated Test Range, Chandipur. The launch was conducted from a vertical launcher against an electronic target at a very low altitude. DRDO also reported that the launch of the system was conducted to validate integrated operation of all weapon system components including the vertical launcher unit with controller, canisterised flight vehicle, weapon control system etc. required for future launches of the missile from Indian Naval Ships.

DRDO & IAF successfully flight-tested the Helicopter launched Stand-off Anti-tank (SANT) Missile

Defence Research and Development Organisation (DRDO) and Indian Air Force (IAF) successfully flight-tested the indigenously designed and developed Helicopter launched Stand-off Anti-tank (SANT) Missile from Pokhran. DRDO further updated that the missile is equipped with a state-of-the-art MMW seeker, which provides high precision strike capability from a safe distance and could neutralise targets in a range up to 10 kms.

Special Update: Ministry of Heavy Industries launched Six Technology Innovation Platforms

In order to bring together the Industry & Academia to foster technological innovations in Heavy Industries, Ministry of Heavy Industries launched six web-based technology innovation platforms, which provides opportunities to industries to seek optimum solutions for technological problems faced by them from the vast pool of scientific & technical manpower in the academia. The Six Technology Innovation Platforms are as follows:

- i. **TechNovuus**: focussing on Automotive sector
- ii. **SANRACHNA**: focussing on power sector and renewable energy sector
- iii. **DRISHTI**: focussing on technologies associated with Capital goods
- iv. **ASPIRE**: focussing on Automotive Technologies development
- v. **KITE**: focussing on Robotics and Virtual Reality, Machine Tools
- vi. **SURGE**: focussing on Machine Tools sector