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# समाचार पत्रों से चयनित अंश Newspaper Clipping

समाचार पत्रों से रक्षा अनुसंधान और विकास संगठन (डीआरडीओ) से  
जुड़ी खबरों का संकलन

A compilation of news related to Defence Research and Development  
Organisation (DRDO) from newspapers



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Defence Research and Development Organisation



## Will induct Zorawar light tank in 2028-29: Army chief Gen Upendra Dwivedi

*Source: Hindustan Times, Dt. 07 Jun 2026*

The Indian Army expects to induct the Zorawar light tank in 2028-29 after issues flagged during its development and trials are fixed, a move that will significantly boost the deployment speed and combat response of armoured regiments in the mountains, army chief General Upendra Dwivedi said. "Issues noticed during development and testing are being addressed through the normal design refinement cycle. Based on present timelines, Zorawar's induction is likely in the 2028-2029 timeframe, subject to successful completion of trials, user evaluation and production readiness," Dwivedi said in an interview with HT.



The tank—earlier expected to be ready for induction in 2027—will strengthen the army's posture against Chinese forces along the contested Line of Actual Control (LAC). The tank has been jointly developed by the **Defence Research and Development Organisation (DRDO)** and Larsen & Toubro under Project Zorawar to meet the Indian Army's requirement for 354 light tanks—a capability boost that is likely to cost around ₹17,500 crore.

Zorawar, a 25-tonne tank, is a major stride towards indigenous capability and reflects the spirit of Atmanirbhar Bharat, the army chief said. "It is being designed as a light, agile and technologically advanced armoured platform tailored for our terrain, especially high-altitude areas. The requirement is for a protected, mobile, manned-unmanned teaming-enabled platform with substantial firepower, surveillance and communication capabilities."

Dwivedi made those comments in the interview on June 4, a day before Prime Minister Narendra Modi reviewed the first prototype of the tank at L&T's Hazira facility in Gujarat and was briefed on its capabilities. "The role played by L&T in furthering self-reliance in the defence sector is commendable," the PM said on Friday. Of the 354 tanks needed, DRDO-L&T will provide 59 and the remaining tanks will be built under a separate programme for which other companies will also compete. The light tank can be transported by air, perform amphibious operations, and fire at high angles of elevation to serve as limited artillery.

The Chinese People's Liberation Army has inducted and fielded several modern tanks, including light tanks with a high power-to-weight ratio, along the LAC. The Indian Army has deployed scores of heavier Russian-origin T-72 and T-90 tanks in the Ladakh theatre, but they have their own limitations as they were designed for operations in plains and deserts. The need for light tanks with adequate firepower, protection, surveillance and communication capabilities became apparent after the India-China border row began in 2020—disengagement of rival troops from all friction points in eastern Ladakh was completed four years later.

The tank has been named after the legendary general, Zorawar Singh, who led the Dogra forces a record six times, between 1834 and 1841, to victories in Ladakh and Tibet. In May 1841, he led a 5,000-strong Dogra force into Tibet and within weeks overran the Chinese forces and captured their Mantalai flag. "We need Indian solutions for Indian challenges because our terrain, threat matrix and operational demands are unique," Dwivedi said, adding that indigenisation is central to the army's modernisation journey. India's geography and security environment is unique, spanning mountains, deserts, jungles, plains, riverine areas, island territories and long unsettled borders, the army chief said. "This demands preparedness across all five generations of warfare, from traditional contact battles to hybrid, non-contact, technology-driven and cognitive warfare," he added.

<https://www.hindustantimes.com/india-news/will-induct-zorawar-light-tank-in-2028-29-army-chief-101780772367368.html>

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## **Raksha Mantri inaugurates an Advanced Weapon System Complex at DRDL, Hyderabad**

***Source: Press information Bureau, Dt. 12 Jun 2026***

Raksha Mantri Shri Rajnath Singh inaugurated an Advanced Weapon System Complex at DRDO's Defence Research & Development Laboratory (DRDL), Dr APJ Abdul Kalam Missile Complex during his visit to Hyderabad in Telangana on June 12, 2026.

In his address, Raksha Mantri commended the Missile Systems & Strategic Systems Cluster of DRDO for its pivotal contributions to India's technological excellence, strategic autonomy, and national security. He asserted that the exceptional performance of indigenous missile systems during Operation Sindoor is testimony to the growing strength of India's defence R&D ecosystem.

"The systems developed by DRDO, such as Akash and BrahMos, proved that India possesses the capability to compete in the global defence technology ecosystem. Strength is essential for peace, and self-reliance is the most reliable foundation for that strength. It is a fact proven by DRDO," said Shri Rajnath Singh.

Highlighting the pivotal role played by air defence during Operation Sindoor, Raksha Mantri said "When aerial threats loomed over borders, our air defence system completely thwarted the enemy's intentions". He added that the vital role of air defence can be witnessed in the conflict zones of the Middle East, voicing Prime Minister Shri Narendra Modi-led Government's commitment to create a multi-level missile defence system through 'Mission Sudarshan Chakra'.

"'Mission Sudarshan Chakra', announced by PM Modi during his 2025 Independence Day address, is set to become a multi-level missile defence system of modern India. It will not only protect military installations and critical infrastructure, but also ensure the safety of civil infrastructure &

key establishments. The system will possess the capability to deliver a decisive punch whenever needed. Its three-layered protection will ensure minimal inconvenience to citizens and prioritise their safety. It is a system designed to provide a robust protective shield for all assets of vital importance,” said Shri Rajnath Singh.

Raksha Mantri highlighted the importance of possessing ‘resilience’ and ‘deterrence’ to safeguard national security interests in light of the rapidly evolving nature of warfare, and global uncertainties. “Precision-strike capabilities, Integrated air defence systems, hypersonic weapons, autonomous platforms, artificial intelligence, electronic warfare, and advanced sensor technologies are redefining the nature of modern warfare. The international order is undergoing a period of tension and transformation; where old assumptions are crumbling, and new alliances & challenges are taking shape. In such an environment, there is a need to possess ‘resilience’ - the capacity to absorb any shock and bounce back; and ‘deterrence’ - the ability to instill fear in the mind of the aggressor that a befitting reply would be given if a hostile eye is cast,” he said.

Acknowledging DRDO’s efforts in building ‘resilience’ and ‘deterrence’ capabilities of the nation, Shri Rajnath Singh stated that the organisation is instilling confidence in the nation that it will neither bow down to instability nor allow any shortcomings in its preparedness. “Today’s inauguration is a symbol of our resolve to become alert, capable, and self-reliant in tackling every challenge,” he said.



Raksha Mantri praised DRDO for its persistent efforts towards addressing present-day challenges while working on futuristic technologies that provide India with a strategic advantage. “DRDO’s responsibility is not limited to merely adapting to technological changes, but also anticipating future needs. It has accepted this challenge with confidence. In recent years, it has achieved numerous milestones in the field of indigenous missile technologies. Advanced missile systems have been successfully tested, and continuous progress is being made in strategic and tactical weapon programmes. These achievements are not just technological milestones; they also demonstrate India's growing self-reliance, self-confidence, and strategic capabilities,” he said.

Shri Rajnath Singh stressed the need of equipping the defence forces with state-of-the-art systems in sufficient quantity and at the right time to tackle future challenges. Success in war is not ensured

by technological superiority alone; large-scale production capability is equally crucial, he said, calling upon DRDO, the Services, and the industry to function as an integrated ecosystem to rapidly transition technologies from development to large-scale production and ensure timely induction. Urging DRDO to consider production as an integral part of the development process, Raksha Mantri underscored the importance of reducing development-to-production timelines, simplifying manufacturing processes, increasing indigenous content and developing systems that can be rapidly mass-produced for the defence forces when the need arises.



Shri Rajnath Singh underlined that the Government has taken a number of measures to promote R&D over the last 12 years with the objective of realising the vision of 'Make-in-India' and 'Aatmanirbhar Bharat' in the field of defence technologies. He appreciated DRDO's contribution to this endeavour, highlighting the transformation of the defence ecosystem due to enhanced collaboration among DRDO laboratories, Defence Public Sector Undertakings, private industry, start-ups, MSMEs, and academia.

"This collaborative model will help India accelerate its journey from innovation to production, and from production to operational capability," he hoped. He expressed confidence that DRDO will continue to strengthen national capabilities, reduce technological dependence, and enhance the operational effectiveness of the Defence Forces.

Raksha Mantri also visited a technical exhibition showcasing cutting-edge defence technologies, advanced weapon systems, and indigenous missile platforms developed by DRDO. Director General (Missile & Strategic Systems) Shri U Raja Babu, Director, DRDL Dr Ankathi Raju and other senior DRDO officials were present on the occasion.

<https://www.pib.gov.in/PressReleasePage.aspx?PRID=2272327&reg=3&lang=1>

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## DRDO demonstrates the nation's next-gen defence capabilities

*Source: Press information Bureau, Dt. 13 Jun 2026*

**Defence Research and Development Organisation (DRDO)** has successfully demonstrated multiple crucial technologies bolstering the nation's defence capabilities against different types of enemy threats. Three consecutive flight-tests were conducted on June 10 & 11, 2026 to demonstrate multi-layered defence against long range ballistic missiles and anti-ship capability at medium range.



Multi-layered Ballistic Missile Defence (BMD) capability was successfully demonstrated. The interceptors successfully engaged their respective targets. The systems are designed and developed with latest technologies to address the emerging missile threats.

These tests have put the country in the elite group of nations having BMD capability to engage up to Intercontinental Ballistic Missiles. The maiden flight-test of the Naval Anti-Ship Missile-Medium Range (NASM-MR) was also carried out successfully. The flight-tests were witnessed by senior officials of DRDO and Defence Forces.

Raksha Mantri Shri Rajnath Singh has congratulated DRDO on successfully demonstrating these crucial technologies. Secretary, Department of Defence R&D and Chairman DRDO Shri Rajesh Kumar Singh closely monitored the trials and applauded the combined efforts of DRDO and industry.

<https://www.pib.gov.in/PressReleasePage.aspx?PRID=2272374&reg=3&lang=1>

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## **DRDO conducts successful flight-test of Long Range Land Attack Cruise Missile**

**Source: Press information Bureau, Dt. 15 Jun 2026**

Defence Research & Development Organisation (DRDO) conducted a successful flight-test of Long Range Land Attack Cruise Missile (LRLACM) from Dr APJ Abdul Kalam Island off the coast of Odisha on June 15, 2026. All the test objectives were fully met, as per the data captured by various tracking instruments deployed by Integrated Test Range, Chandipur.

The LRLACM is an indigenously developed missile with all sub-systems developed by various DRDO laboratories and Indian Industry partners. Aeronautical Development Establishment, Bengaluru is the Nodal Laboratory. The launch was witnessed by senior officials from DRDO and user representatives from the Indian Navy & the Indian Air Force.



Raksha Mantri Shri Rajnath Singh congratulated the DRDO team and the Industry Partners on the successful flight-test of LRLACM. Defence Secretary & Secretary, Department of Defence (R&D) and Chairman DRDO Shri Rajesh Kumar Singh monitored all activities during the launch. He congratulated all the team members involved in the successful flight-test.

<https://www.pib.gov.in/PressReleasePage.aspx?PRID=2273160&reg=3&lang=1>

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## **Seven CSIR Technologies Licensed to Industry; Bharatiya Nirdeshak Dravyas Released and Quantum Sensing Components Delivered to DRDO**

**Source: Press Information Bureau, Dt. 16 Jun 2026**

The Council of Scientific & Industrial Research (CSIR) today organized a Technology Transfer and Bharatiya Nirdeshak Document (BND) Release Function at the CSIR Headquarters, New Delhi,

bringing together scientists, industry partners, technology adopters and strategic stakeholders. The programme, jointly organized by CSIR-National Physical Laboratory (CSIR-NPL) and CSIR-Central Road Research Institute (CSIR-CRRI), witnessed the transfer of seven technologies to industry, release of ten Bharatiya Nirdeshak Dravyas (BNDs), and handing over of critical components developed for quantum sensing applications to DRDO.

Welcoming the gathering, Prof. Venu Gopal Achanta, Director, CSIR-NPL, highlighted the foundational role played by measurement science and metrology in scientific advancement, industrial development and national quality infrastructure. Tracing the origins of CSIR-NPL and its mandate in establishing measurement standards for the country, he emphasized that reliable measurements form the backbone of modern manufacturing, trade, healthcare, environmental monitoring and emerging technologies. He noted with satisfaction the steadily expanding repository of Bharatiya Nirdeshak Dravyas being developed by CSIR-NPL and its partner institutions, which are helping strengthen India's quality ecosystem and reduce dependence on imported reference standards.

A major highlight of the programme was the release of ten Bharatiya Nirdeshak Dravyas (BNDs) covering eight phytochemicals, one precious metal and one propane gas. These BNDs are expected to support laboratories, industry and regulatory agencies by providing reliable reference materials and measurement standards, thereby improving accuracy, traceability and quality assurance across sectors.



The event also marked another important milestone in India's quantum technology journey with the handing over of five vapor cells developed by CSIR-NPL to the Solid-State Physics Laboratory (SSPL), DRDO, for quantum sensing applications. The transfer reflects the growing capabilities of Indian laboratories in developing advanced components required for next-generation strategic technologies.

Addressing the gathering, Dr. P. K. Trivedi, Director, CSIR-CIMAP, underscored the importance of quality standards and reference materials in supporting India's bioeconomy and phytochemical sector. He noted that scientific standardization plays a crucial role in enhancing the credibility, quality and global acceptance of plant-based products and natural ingredients.

Dr. Ch. Ravi Sekhar, Director, CSIR-CRRI, highlighted the increasing momentum of technology commercialization efforts at the institute. He noted that the number of technology transfers from

CSIR-CRRI has been growing steadily over the last few years, reflecting both the industry's confidence in CSIR-developed technologies and the institute's focus on developing deployable solutions for infrastructure, transportation, road safety and environmental sustainability. He emphasized that the technologies transferred today address real-world challenges and are expected to create tangible societal and economic impact.

Addressing the gathering, Dr. N. Kalaiselvi, Director General, CSIR and Secretary, DSIR, observed that the monthly technology transfer events organized at CSIR Headquarters have emerged as an effective platform for showcasing innovations from across the CSIR network and facilitating their adoption by industry. The DG, CSIR noted that the number of technology transfers being witnessed through this platform has been steadily increasing, reflecting the growing relevance of CSIR research to national priorities and industrial needs. Dr Kalaiselvi emphasized that technology transfer is not merely a transaction but the culmination of scientific research reaching society through industry partnerships. The DG, CSIR, Dr. Kalaiselvi also reiterated CSIR's commitment to accelerating innovation-led growth through stronger industry engagement, commercialization of research outcomes, and development of indigenous technologies aligned with the vision of Atmanirbhar Bharat.

### **Technologies Transferred:**

#### **CSIR-NPL**

1. Rydberg Systems Based Broad Band E-Field Sensing Technology to M/s Nostradamus Technologies Private Limited, Hyderabad, Telangana.
2. High-Volume PM2.5 Impactor Sampler Technology to M/s Engineering and Environmental Solutions Private Limited, Aligarh, Uttar Pradesh.
3. Environment Friendly and Scalable Process for Recycling of Pharmaceutical Blisters (PBs) and Allied Packaging Wastes to M/s GM Industries, New Delhi.

#### **CSIR-CRRI**

1. VInSD-VAIU: Drone-Based NDT System for Bridges to M/s Dronix Technologies Private Limited (Aero360), Chennai, Tamil Nadu.
2. PAVE-SEAL: Air-Cleaning Nano Photocatalytic Pave Sealing Emulsion to M/s Ashita Renewables, Muzaffarnagar, Uttar Pradesh.
3. PATCHFILL: Pothole Repair Machine to M/s Petrochem Specialities, Muzaffarnagar, Uttar Pradesh.
4. CLARIVISOR: Glare Mitigation Device to M/s Intelligent Diagnosis LLP, Gurugram, Haryana.

### **Bharatiya Nirdeshak Dravyas Released:**

1. Phytochemicals BND
2. Precious Metals BND
3. Propane Gas BND

<https://www.pib.gov.in/PressReleasePage.aspx?PRID=2273706&reg=48&lang=1>

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