

DRDO NEWSLETTER



A Monthly Bulletin of Defence Research and Development Organisation

<https://www.drdo.gov.in>

ISSN: 0971-4391

FEBRUARY 2026 | VOLUME 46 | ISSUE 2



REPUBLIC DAY 2026: DRDO SHOWCASED ITS PATH-BREAKING INNOVATIONS AT KARTAVYA PATH AND BHARAT PARV





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FEBRUARY 2026 | VOLUME 46 | ISSUE 2

46th Year of Publication

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REPUBLIC DAY 2026: DRDO SHOWCASED ITS PATH-BREAKING INNOVATIONS AT KARTAVYA PATH AND BHARAT PARV

The DRDO showcased some of its path-breaking innovations for national security during the 77th Republic Day Parade at Kartavya Path and Bharat Parv 2026. The systems showcased included Long Range Anti-Ship Hypersonic Missile (LR-AShM) and DRDO Tableau-‘Naval Technologies for Combat Submarines’.

The DRDO showcased LR-AShM with launcher during the parade. The weapon system is designed to meet the coastal battery requirements of the Indian Navy. The LR-AShM is a Hypersonic Glide Missile capable

of engaging static and moving targets and is designed to carry various payloads. The missile is a first-of-its-kind with indigenous avionics systems and high accuracy sensor packages.

DRDO Tableau at Bharat Parv

This year, the DRDO tableau was showcased at Bharat Parv at Red Fort during 26-31 January 2026. The theme of the tableau was ‘Sagar Suraksha-Naval Technologies for Combat Submarines’, which displayed the indigenously developed

technologies/systems which act as a force multiplier for conventional submarines of the Indian Navy. These systems are Integrated Combat Suite (ICS), Wire Guided Heavy Weight Torpedo (WGHWT) and Air Independent Propulsion which will ensure combat supremacy in the underwater domain.

Many more DRDO developed systems were also displayed in Armed Forces contingents during the parade at Kartavya Path. These included Arjun Main Battle Tank, Nag Missile System (NAMIS-II), Advanced Towed Artillery Gun





System, BrahMos Missile, Akash, Battle Field Surveillance Radar and Anti Tank Guided Missile.

The DRDO has been a design and development agency for the Armed Forces and to reinforce the spirit of Aatmanirbhar Bharat and is partnering with all stakeholders of defence ecosystem, including academia, industry and Services in developing state-of-the-art defence systems. Indigenous development of these systems by DRDO is a major achievement towards self-reliance in defence technologies and an important step forward towards Aatmanirbhar Bharat.



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BOMB DISPOSAL SYSTEMS

The Hon'ble Union Minister Pralhad Joshi released IS 19445: 2025—Bomb Disposal Systems—Performance Evaluations and Requirements on 24 December, 2025, National Consumer Day, held at Bharat Mandapam, New Delhi. Under the Arms and Ammunition for Civilian Use Sectional Committee (PGD 28), the standard was curated through a consensus-based process. Terminal Ballistic Research Laboratory (TBRL), Chandigarh, and BIS developed this standard following a request from the Ministry of Home Affairs in view of the increasing deployment of bomb disposal systems across security and civilian agencies and the absence of a dedicated Indian standard for performance evaluation of such systems.

The bomb disposal devices

are designed to withstand certain defined levels of blast load, fragment, and fireball effects, thus virtually reducing the risk to the surrounding areas. Bomb blankets, bomb baskets, and bomb inhibitors are various types of bomb disposal systems that have been designed for use by paramilitary forces when a suspected explosive device is found in a public area. These are effective against shrapnel and fragments from hand grenades, small bombs, IEDs, etc.

The Standard has been developed to provide comprehensive guidelines for

the evaluation of bomb disposal systems with respect to their performance against specified blast loads and splinter effects. It outlines the requirements for equipment, test range, and procedures necessary to assess the effectiveness of these systems. Stakeholders of this standard are defence and security agencies, R&D institutions, manufacturers, and testing agencies of bomb disposal systems.

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DRDO SUCCESSFULLY CONDUCTS SALVO LAUNCH OF TWO PRALAY MISSILES IN QUICK SUCCESSION

Defence Research & Development Organisation (DRDO) successfully conducted a salvo launch of two Pralay missiles in quick succession from the same launcher off the coast of Odisha on 31 December 2025. The flight test was conducted as part of user evaluation trials. Both the missiles followed the intended trajectory, meeting all flight objectives, as confirmed by tracking sensors deployed by the Integrated Test Range (ITR), Chandipur. The terminal events were confirmed by telemetry systems installed onboard ship, deployed near the impact points.

Pralay is an indigenously developed solid propellant quasi-ballistic missile employing state-of-the-art guidance and navigation to ensure high precision. The missile is capable of carrying multiple types of warheads against various targets.

The missile has been developed by Research Centre Imarat (RCI), Hyderabad, in collaboration with other DRDO laboratories—Defence Research and Development Laboratory (DRDL), Advanced Systems Laboratory (ASL), Armament Research and Development Establishment (ARDE), High Energy Materials Research Laboratory (HEMRL), Defence Metallurgical Research

Laboratory (DMRL), Terminal Ballistics Research Laboratory (TBRL), Research & Development Establishment (Engineers) (R&DE), and Integrated Test Range (ITR); Development-cum-Production Partners (Bharat Dynamics Limited & Bharat Electronics Limited); and other Indian industries. For the tests, the systems were integrated by the two development-cum-production partners. The tests were witnessed by senior scientists of DRDO, representatives of users from the Indian Air Force and the Indian Army, as well as industry representatives, including the Development-cum-Production Partners.

Hon'ble Raksha Mantri Shri Rajnath Singh has complimented DRDO, the Indian Air Force, the Indian Army, DPSUs, and the industry on the successful launch of the missiles in quick succession. The successful completion of the salvo launch of the Pralay missile has established its reliability, he said. Secretary, Department of Defence R&D & Chairman DRDO Dr Samir V Kamat has congratulated the DRDO teams involved in the successful flight tests and stated that the achievement indicates imminent readiness of induction of the system with the users.



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DRDO SUCCESSFULLY CONDUCTS MAIDEN FLIGHT TEST OF PINAKA LONG RANGE GUIDED ROCKET

The maiden flight test of the Pinaka Long Range Guided Rocket (LRGR 120) was conducted successfully at Integrated Test Range (ITR), Chandipur, on 29 December 2025. The rocket was tested for its maximum range of 120 km, demonstrating all in-flight maneuvers as planned. The LRGR impacted on the target with textbook precision.

All the deployed range instruments tracked the flight throughout its trajectory. This rocket is designed by the Armament Research and Development Establishment (ARDE) in association with the High Energy Materials Research Laboratory (HEMRL) and with support from the Defence Research and Development Laboratory (DRDE) and the Research Centre Imarat (RCI).

The flight trial was coordinated by ITR and Proof & Experimental



Establishment (PXE). The LRGR was launched from the in-service Pinaka launcher, demonstrating its versatility and providing launch capability of Pinaka variants of different ranges from the same launcher.

Hon'ble Raksha Mantri Shri Rajnath Singh congratulated

DRDO on the achievement. He stated that the successful design and development of long-range guided rockets will boost the capabilities of the Armed Forces, terming it as a game changer.

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SUCCESSFUL FLIGHT-TESTS OF MPATGM WITH TOP ATTACK CAPABILITY AGAINST A MOVING TARGET

The Third Generation Fire & Forget Man Portable Anti-Tank Guided Missile (MPATGM) with top attack capability was flight-tested successfully against a moving target in KK Ranges, Ahilya Nagar, Maharashtra, by DRDO's Defence Research & Development Laboratory (DRDL), Hyderabad, on 11 January 2026. The indigenously developed

MPATGM consists of state-of-the-art indigenous technologies like the Imaging Infrared (IIR) Homing Seeker, All-electric Control Actuation System, Fire Control System, Tandem Warhead, Propulsion System, and High-Performance Sighting System, which are developed by DRDO's sister laboratories, namely Research Centre Imarat

(RCI), Hyderabad; Terminal Ballistics Research Laboratory (TBRL), Chandigarh; High Energy Materials Research Laboratory (HEMRL), Pune; and Instruments Research & Development Establishment (IRDE), Dehradun.

The Thermal Target System was developed by Defence Laboratory, Jodhpur (DLJ), to simulate the target tank. The IIR seeker is well

accomplished with day and night combat operation capability. The warhead is capable of defeating modern Main Battle Tanks. Bharat Dynamics Limited and Bharat Electronics Limited are the Development-Cum-Production Partners for the weapon system. The missile can be launched from a tripod or a military vehicle launcher. Hon'ble Raksha Mantri Shri Rajnath Singh complimented DRDO, DcPP Partners, and the industry for the successful test. He termed it as an important step towards Aatmanirbhar Bharat.



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SUCCESSFUL GROUND TEST OF FULL SCALE ACTIVELY COOLED LONG DURATION SCRAMJET ENGINE FOR HYPERSONIC MISSILE PROGRAM

Defence Research & Development Laboratory (DRDL), Hyderabad, has achieved a path-breaking milestone in the development of hypersonic missiles. The DRDL successfully conducted an extensive long-duration ground test of its Actively Cooled Scramjet Full Scale Combustor, achieving a run time of over 12 minutes at its state-of-the-art Scramjet Connect Pipe Test (SCPT) facility on 9 January 2026.

This significant achievement builds upon the earlier subscale test conducted on 25 April 2025, for a long duration, marking a crucial step forward in hypersonic missile development. The combustor and test facility were designed and developed by the DRDL and realised by industry

partners. The Hypersonic Cruise Missile is capable of exceeding five times the speed of sound (over 6,100 km/hr) for extended periods. The remarkable feat is achieved through a cutting-edge air-breathing engine, which utilizes supersonic combustion to sustain long-duration flight. The ground tests conducted at the SCPT facility successfully validated the design of the advanced scramjet combustor, as well as the capabilities of the state-of-the-art test facility.

Hon'ble Raksha Mantri Shri Rajnath Singh complimented DRDO, industry partners, and academia

on the successful ground test of the Full Scale Actively Cooled Long Duration Scramjet Engine. He stated that the achievement is a solid foundation for the nation's Hypersonic Cruise Missile Development Program.

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DIPAS SIGNS MoU WITH DR AMBEDKAR NIT-JALANDHAR

Defence Institute of Physiology & Allied Sciences (DIPAS), Delhi, has signed a Memorandum of Understanding (MoU) with Dr BR Ambedkar National Institute of Technology (NIT)-Jalandhar for academic collaboration on 17 December 2025. The signing ceremony was held at the O/o Director General-Soldier Support System (SSS) in the presence of Dr UK Singh, DS & DG (SSS); Shri Devakanta Pahad Singh, OS & Director, DIPAS; Prof. Binod Kumar Kanaujia, Director, NIT-Jalandhar; and his team. This partnership will provide opportunities for academic interaction, research collaboration,

and practical exposure for students and employees. This partnership will also boost innovation-driven projects in the fields of human

performance, high-altitude survival, energy efficiency, waste management, and other emerging technologies.



SIGNING OF MoA BETWEEN INMAS AND DGAFMS

In a significant step towards strengthening India's preparedness for radiation emergency medical management, Dr Sudhir Chandna, Director Institute of Nuclear Medicine and Allied Sciences (INMAS), Delhi and Surg Vice Adm Arti Sarin, AVSM, VSM, Directorate General of Armed Forces Medical Services (DGAFMS) signed a Memorandum of Agreement (MoA) in the presence of the Dr BHVS Narayana Murthy, Hon'ble Vice Chancellor Defence Institute of Advanced Technology (DIAT), Pune, Dr UK Singh, DS & DG (SSS), Surgeon Vice Admiral Anupam Kapur, NM Director General Hospital Services (Armed Forces), Surg R Adm Rajat Shukla, VSM, Addl DGAFMS (MR, H & Trg) at Kautilya Hall, Army Hospital

R&R Delhi Cantt on 24 November 2025. This landmark initiative underscores the growing synergy between DRDO and Armed Forces Medical Services in addressing emerging CBRN challenges.

The collaboration represents a major stride in strengthening India's capability and national

resilience against radiation threats, whether arising from accidents, hostile scenarios, or disasters.

The MoA marks not just an agreement but a shared commitment to safeguarding lives through science-driven preparedness and inter-institutional cooperation.



MoU SIGNED BETWEEN DMSRDE AND NATIONAL TEST HOUSE, KOLKATA

A Memorandum of Understanding (MoU) was signed between Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, and National Test House (NTH), Department of Consumer Affairs, Ministry of Consumer Affairs, Food & Public Distribution on 24 December 2025. Shri Amit Saraiya, Sc 'F' on behalf of Director, DMSRDE, and Dr Alok Kumar Srivastava, Director General-NTH, exchanged the MoU in the august presence of Shri Pralhad Joshi, Hon'ble Minister of Consumer Affairs, Food & Public Distribution, and New & Renewable Energy, on the occasion of 'National Consumer Day-2025' at Bharat Mandapam, New Delhi, on 24 December 2025. The MoU provides a structured

framework aimed at establishing a long-term collaboration in training, testing, and research for the advancement of scientific knowledge. Both institutions

will jointly undertake projects in identified areas of mutual interest, sharing expertise and resources as required at their respective facilities.



MoU BETWEEN DRDO AND RASHTRIYA RAKSHA UNIVERSITY

DRDO and Rashtriya Raksha University (RRU) signed a Memorandum of Understanding (MoU) to foster collaboration in the area of research, education, training, and technology support for defence and internal security on 22 December 2025. The MoU was signed under the guidance of Dr Samir V Kamat, Secretary DD R&D & Chairman DRDO, by Dr Chandrika Kaushik, DG (PC&SI), and Prof. (Dr) Bimal N. Patel, Vice Chancellor RRU, in the presence of Hon'ble Raksha Mantri Shri Rajnath Singh.



DRDO ALANKARAN SAMAROH-2026

The Directorate of Public Interface (DPI), DRDO HQrs organised a prestigious event titled “गणतंत्र दिवस विशिष्ट आमंत्रण अतिथि मिलन एवं डीआरडीओ अलंकरण समारोह” on 27 January 2026 at DRDO Bhawan, Delhi. The event was graced by the Hon’ble Raksha Mantri Shri Rajnath Singh as the Chief Guest and the Hon’ble Minister of State for Defence Shri Sanjay Seth as the Distinguished Guest.

The event commenced with a welcome address, followed by the DRDO Song and a special video showcasing DRDO’s major achievements and its contribution towards strengthening India’s self-reliance in defence technology. The gathering included senior DRDO leadership, scientists, officials, awardees with their families, officers from various laboratories connected via Intranet, and members of the media.

A major highlight of the ceremony was the DRDO Awards 2024, instituted under the new awards scheme to recognise excellence, leadership, innovation, and service. A total of eight awards across five categories were conferred. These included the Dr Bhagavantam Technology Leadership Award, the Dr Nagchaudhuri Lifetime Achievement Award, Best Scientific Excellence Awards, Best Technical Excellence Awards, and the Best Administrative Excellence Award. The awards acknowledged outstanding contributions in areas such as missile and hypersonic



technologies, armoured systems, electronic warfare, advanced materials, UAV and aerospace platforms, terahertz technologies, and exemplary administrative reforms.

Another major segment was the release of a book titled “The Unprecedented Success Story of the First Indigenous Supersonic Multi-Target Surface-to-Air Missile System—AKASH”, highlighting the inspirational journey of the Akash missile system under the leadership of Padma Shri Dr Prahlada Rama Rao and written by Dr G Chandramouli.

The Hon’ble Raksha Mantri addressed the gathering, emphasizing India’s growing defence self-reliance, innovation-

driven growth, and DRDO’s pivotal role in strengthening national security. The program concluded with a formal vote of thanks, the national anthem, and a group photograph session. The 100 special guests from various DRDO laboratories and directorates along with their spouse were taken to PM Sangrahalaya and National War Memorial where they witnessed the long historic heritage and supreme sacrifice of Soldiers.

Overall, the ceremony celebrated scientific excellence, honoured dedication and innovation, and reinforced DRDO’s commitment to building a secure and self-reliant India in defence technology.

"DECISIVE ROLE OF DRDO WEAPONS DURING OPERATION SINDOOR SERVES AS A TESTAMENT TO ITS COMMITMENT TOWARDS SAFEGUARDING NATIONAL INTERESTS": RAKSHA MANTRI ON DRDO DAY

“The weapon systems developed by DRDO played a decisive role during Operation Sindoor, which serves as a testament to the professionalism and commitment of the organisation towards safeguarding national interests,” said Hon'ble Raksha Mantri Shri Rajnath Singh during his visit to the DRDO HQs in New Delhi on 1 January 2026 on the occasion of the 68th Foundation Day. Commending the DRDO for bolstering India's indigenous capabilities by equipping the Armed Forces with state-of-the-art technologies and equipment, Raksha Mantri stated that DRDO's equipment worked seamlessly during the operation, boosting the morale of the soldiers.

Hon'ble RM exuded confidence

that the DRDO will play a crucial role in the creation of Sudarshan Chakra as announced by Hon'ble Prime Minister Shri Narendra Modi during his Independence Day 2025 address from the ramparts of Red Fort. “Under this initiative, DRDO is responsible for equipping our vital installations with an air defence system to ensure complete aerial protection over the next decade. During Operation Sindoor, we witnessed the importance of air defence in modern warfare. I am confident that DRDO will work wholeheartedly to achieve this goal soon,” he said.

Shri Rajnath Singh praised the DRDO for becoming trust builders along with technology creators, which makes people look

toward it with hope and certainty, and belief. Acknowledging DRDO's collaboration with the private sector, he stated that the increased engagement with the industry, academia, and start-ups has resulted in the creation of a synergetic defence ecosystem. “DRDO has consistently improved its systems, processes, and working methods. From procurement to project management, from industry engagement to collaborating with start-ups and MSMEs, there is a visible effort to make the work easier, faster, and more reliable,” he said.

RM called upon the DRDO to continue marching ahead in sync with the rapidly evolving technological ecosystem and keep coming out with products that are relevant to the changing times.

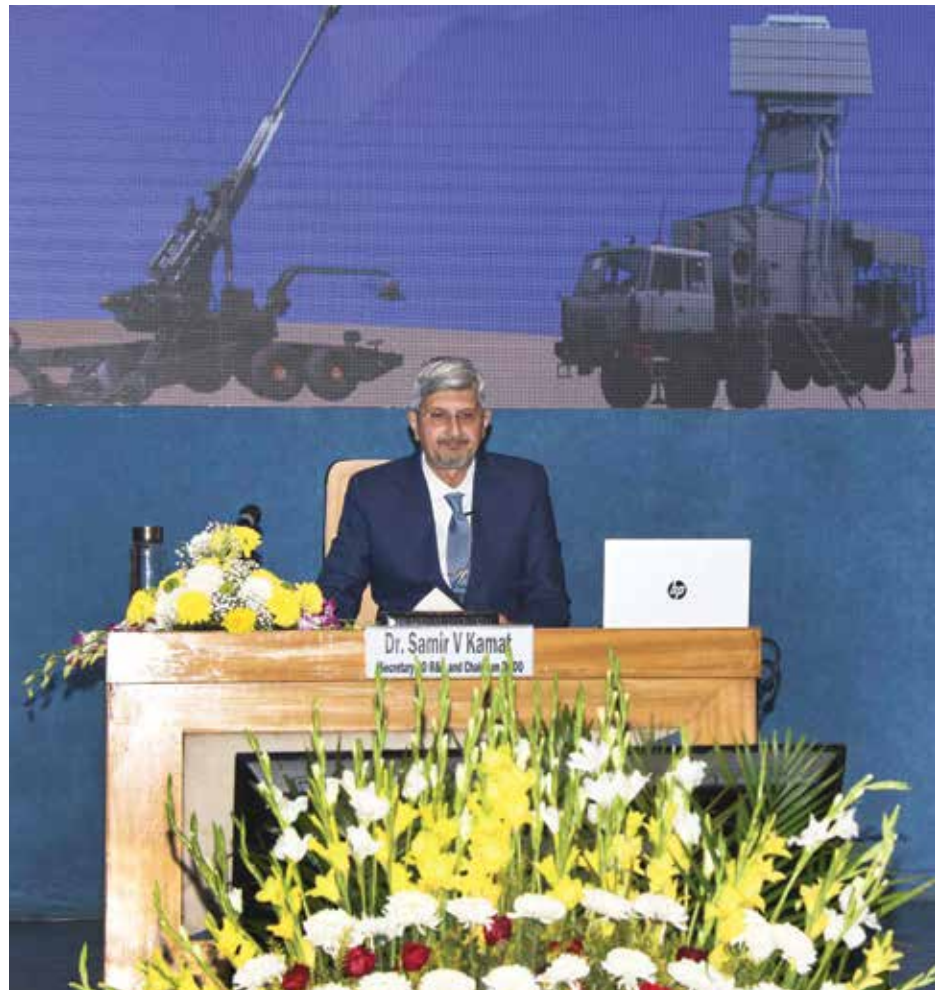


DRDO CELEBRATES 68TH FOUNDATION DAY

DRDO celebrated its 68th Foundation Day on 1 January 2026. Hon'ble Raksha Mantri Shri Rajnath Singh and Raksha Rajya Mantri Shri Sanjay Seth visited the DRDO HQs and reviewed the achievements of DRDO in 2025 and targets for 2026. Later, Secretary, Department of Defence R&D, and Chairman DRDO Dr Samir V Kamat, addressed the DRDO fraternity at DRDO Bhawan, which was streamed live across all the laboratories of DRDO.

Extending warm wishes to DRDO employees and their families, Dr Kamat stated that the efforts of DRDO have given a quantum jump to India's pursuit of self-reliance in defence as part of the 'Aatmanirbhar Bharat' vision. He called upon DRDO scientists to focus on next-generation needs, including cyber security, space, and artificial intelligence. He stated that the immense potential generated through DRDO's research and development has been a catalyst for the growth of industries in the defence manufacturing sector.

Highlighting the achievements of DRDO in 2025, the Chairman DRDO said that several systems developed were delivered, inducted, or handed over to the users. He stressed that DRDO should focus on working together with all stakeholders in the defence ecosphere to meet the country's futuristic challenges and fulfill the Prime Minister's vision of Aatmanirbhar Bharat.



He expressed satisfaction that the 22 Acceptance of Necessity (AoN) had been accorded by the Defence Acquisition Council (DAC) and the Services Procurement Board (SPB) for the induction of several DRDO-developed systems worth approx. Rs 1.30 lakh crores to be manufactured by Indian industries, which is the highest in any single year in history.

Some of the notable systems for which AoN has been accorded include the Integrated Air Defence Weapon System (IADWS), Conventional Ballistic Missile System, Quick Reaction

Surface-to-Air-Missile System 'Anant Shastra,' Long Range Air-to-Surface Supersonic Cruise Missile (LRASSCM), Integrated Drone Detection and Interdiction System (IDDIS) MK II, Beyond Visual Range Air-to-Air Missile (BVRAAM) Astra Mk-II, Anti-Tank NAG Missile System (Tracked) Mk-2, Advanced Lightweight Torpedo, Processor-based Moored Mine – Next Generation (PBMM NG), Airborne Early Warning & Control (AEW&C) Mk-1A, Mountain Radars, and Full Mission Simulator for Light Combat Aircraft (LCA) Mk-1A.



Besides celebrations at DRDO HQrs, following laboratories of DRDO also celebrated DRDO Day at their respective places:

CAS, Hyderabad

The Center for Advanced System (CAS), Hyderabad, celebrated the 68th DRDO Day on 1 January 2026. The address of Dr Samir V Kamat, Secretary DD R&D & Chairman DRDO, was web streamed live on DRONA during the celebrations. After completion of the address, Dr Sivasubramaniam N, DS & Director, CAS, extended his warm wishes to the CAS fraternity for a successful new year ahead and emphasized the need to strive to make CAS a world-class center for high-tech test facilities. Already the Hypersonic Wind Tunnel test is operational and involved in providing support to important projects of not only DRDO but also to ISRO for Gaganyaan project.

Director, CAS appreciated the contribution of the employees and encouraged them to work to expand the horizon of CAS from a mere production facility to world-class test facility. He also reiterated that the establishment of Scramjet, Ramjet and Trisonic test facilities will provide great impetus to R&D and test activities at CAS.



CASDIC, Bengaluru

DRDO Day 2026 was celebrated at Combat Aircraft Systems Development & Integration Centre (CASDIC), Bengaluru, on 1 January 2026. CASDIC Annual Report 2025 was released on the occasion followed by reading of messages from Director, DLRL & DG, ECS.

Centre Head (CASDIC) addressed CASDIC fraternity on the occasion and wished Happy New Year and DRDO Day 2026. Centre Head in his address remarked that timelines are to be strictly followed for successful completion of projects. He reflected on CASDIC achievements of 2025 in terms of projects, techno-managerial, admin & allied, fire & safety, and material management groups. He appreciated the various committees for their effective performance during the year 2025. He also gave way-forward for the Year-2026 in terms of upcoming projects, ongoing project milestones, and so on. He appreciated for winning Running Trophy for Best Laboratory in the ECS Cluster for meeting KPI for the year 2025. He wished Happy and successful New Year for CASDIC family and requested CASDIC fraternity to come together as one force to meet the targets and goals of the laboratory.

Director, IAF-PMT also graced the occasion; he underscored that health should be the primary concern for successfully carrying out all activities on time. He congratulated CASDIC fraternity and IAF team who works hand-in-

hand for successful delivery of all projects.



DESIDOC, Delhi

The Defence Scientific Information & Documentation Centre (DESIDOC), Delhi, celebrated DRDO Day and the New Year 2026 on 1 January 2026. The occasion brought together officers and staff members of DESIDOC in a spirit of reflection, pride, and renewed commitment.

Smt Kiran Chauhan, Director, DESIDOC, addressed the DESIDOC fraternity on the occasion. In her address, she highlighted the major activities and achievements of the laboratory during the previous year, underscoring DESIDOC's continued contributions in the areas of defence knowledge management, scientific documentation, publications, and information services in support of the DRDO. Dr Chauhan also outlined the roadmap and priorities for the upcoming year, emphasizing innovation,



digital transformation, improved outreach, and enhanced efficiency in delivering information and documentation services. She encouraged all personnel to work with dedication and a forward-looking approach to meet emerging challenges and organizational goals.



DMSRDE, Kanpur

Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, celebrated the 68th DRDO Day on 1 January 2026 with zeal and enthusiasm. The event started with the live webcast of targets for the year 2026 by all DGs followed by the New Year message and address of Dr Samir V Kamat,

Secretary, DD R&D & Chairman, DRDO at the DRDO HQrs. This was followed by a DRDO-cum-New Year's Day address by Dr Kingsuk Mukhopadhyay, OS & Director, DMSRDE. He extended his warm wishes to the DMSRDE fraternity for the successful year ahead and briefed about the significant achievements of DMSRDE during the year 2025. He also highlighted the roadmap for the future and urged the employees to work with dedication, sincerity, and discipline.



NSTL, Visakhapatnam

Naval Science & Technological Laboratory (NSTL), Visakhapatnam, celebrated DRDO Day-2026 on 1 January 2026. The celebration commenced with

offering floral tribute to Dr APJ Abdul Kalam by Director and all NSTL fraternity. Dr Abraham Varughese, OS & Director, NSTL, in his address highlighted the significant achievements and progress in the previous year and targets for the year 2026. The celebration was followed by the webcast of the New Year message of Dr Samir V Kamat, Secretary, DD R&D & Chairman, DRDO. On the occasion, all Associate Directors presented their achievements and targets for the year 2026.



RAISING DAY CELEBRATIONS

CAIR, Bengaluru

Centre for Artificial Intelligence and Robotics (CAIR), Bengaluru, celebrated 39th Raising Day on 22 December 2025. Dr Samir V Kamat, Secretary DD R&D & Chairman DRDO, graced the occasion (over a video

conference) as the Chief Guest. Smt Sheena Rani, DS & DG (MCC) was the Guest of Honour. Shri N Sitaram, Fellow INAE & CCR&D (ECS)(Retd); Dr G Athithan, DS & DG (MCC) (Retd); Dr Subrata Rakshit, DS & DG (TM & SAM)

(Retd); Smt Suma Varughese, DS & DG (MCC) (Retd); Dr Sudhir Kamat, Director DIA-RCoE & OS & DG (MCC)(Retd); AVM Rajiva Ranjan VM(Retd), JS NSCS and Dr Kapil Vaswani of IISc were the special invitees. Directors of

sister laboratories and invitees from User Agencies were also present during the event. During his address, Dr Rituraj Kumar, OS & Director, CAIR, highlighted the organization's achievements. The Chief Guest and the Guest of Honour, while addressing the gathering, praised the laboratory achievements and brought out their importance in the current scenario. The laboratory organized number of sports events as part of the celebrations.

The day also marked the celebration of Karnataka Rajyotsava. Dr Byramangala Ramegowda, President – B M Shree Trust, Bangalore was the Chief Guest of the event. Shri Prasanna Kumar KR, OS & Associate Director (Technology), addressed the gathering on the occasion.

CAS, Hyderabad

The Centre for Advanced Systems (CAS), Hyderabad, celebrated its 11th Raising Day on 15 November 2025 with immense zeal and enthusiasm. Shri Sandip Chattopadhyay, OS & Associate Director, welcomed everyone and presented the laboratory's achievements. Dr VK Saraswat, Member of NITI Aayog & Former Secretary DD R&D, graced the occasion as the Chief Guest. He inaugurated the newly established Explosive Environment Test Facilities (EETF) and Agni Prime Hangar building. He also appreciated the various test facilities and the growth of CAS in the direction of becoming a



state-of-the-art national-level test center. Shri U Rajababu, DS & DG (MSS) cluster, graced the event as the Guest of Honour and immensely appreciated the strides CAS was making in evolving as a national test facility. Dr Sivasubramaniam N, DS & Director, CAS, welcomed the august gathering and briefed them about the progress made in different integration, production, and test activities. He also informed the gathering that ISRO was taking help from CAS

in conducting hypersonic wind tunnel tests for the Gaganyaan project.

Commendations were given to staff members for meritorious work, and mementos were given to employees who completed 20 and 25 years of service in the DRDO. Prizes for various sports activities and cultural programs were also given by Director, CAS. The event concluded with a vote of thanks by Shri S Sreenivas, Sc 'G' & DOMS, CAS.





NPOL, Kochi

Naval Physical and Oceanographic Laboratory (NPOL), Kochi, celebrated its 73rd Annual Day on 12 December 2025. The celebrations were conducted within the premises of NPOL and were presided over by Dr Manu Korulla, OS & DG (R&M) (Retd.). Shri P Krishna Kumar, Sc 'G' & Chairperson of the NPOL Annual Day Organizing Committee, welcomed the gathering. The program started with the live address to the employees of the laboratory by Dr Samir V Kamat, Secretary, DD R&D & Chairman, DRDO, in which he lauded the recent notable achievements of NPOL. A DRDO monograph titled "Piezoelectric Underwater Transducers," authored by Dr. R. Ramesh, Sc 'G', NPOL (Retd.), was released online by Chairman, DRDO, during the event. Dr Duvuuri Seshagiri, OS & Director, NPOL, presented a detailed account of the achievements of the organization in both technical and corporate areas. Shri VS Shenoj, OS & Director, Defence Laboratory, Jodhpur (DLJ), was present during both occasions.

Outstanding employees were felicitated with awards and certificates for their contributions. The prize distribution to the winners of the NPOL annual sports meet 2025 was also conducted during the occasion.

GTRE, Bengaluru

Gas Turbine Research Establishment (GTRE), Bengaluru, organized a one-day Annual Industry Partners



Meet on 19 December 2025. The objective of the meet was to present to the industries the various project requirements for their possible contributions and solicit suggestions, concerns, queries, and grievances for mutual discussion.

The event was inaugurated by Dr SV Ramana Murty, OS & Director GTRE, wherein 78 participants from 62 industries participated. Shri Sivakumar S, Sc 'G' Deputy Project Director KDE-II; Shri Manoj Kumar Sahu, Sc 'G', STFE project; Shri Nagaraju D, OS & Project Director, ATGG; Dr P Samuel Mathews, RD-RCMA; Shri Biswajit Chaudhuri, RD-

AQA; and Dr A Manjunath, Sc 'G' & Chairman, IIG, GTRE gave presentations during the occasion. A panel discussion on "Challenges and Opportunities and Way Ahead for Manufacturing Aero Gas Turbine Engines by Indian Industry Partners" was held under the chairmanship of Dr Subrata Das, OS & Project Director, KDE-II. The industry partners visited a technical exhibition of engine hardware and had discussions with designers, project teams, and manufacturing and quality assurance experts. Detailed feedback in writing was obtained from industry partners for further analysis and improvement actions.



SWACHHATA PAKHWADA 2026

DMSRDE, Kanpur

Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, organized Swachhata Pakhwada during 1-15 December 2025. Various activities such as the swachhata pledge; mass awareness activity on Swachhata through banners, placards, and rallies; and Shramadan activities in office premises were conducted. A workshop was also conducted igniting the awareness towards throwing garbage on roads; a competition on swachhata was organised at Silver Oak School, Cantt; A campaign on discarding the use of single-use plastic and swachhata thematic paintings on the DMSRDE boundary wall was planned and executed during the pakhawada. The event was coordinated by Dr Sunil Kumar, Sc 'D' and Shri Shashi Prakash, TO 'B'.



out, including the collection and segregation of biodegradable and non-biodegradable waste at the source and cleaning open areas, pathways, and green areas. Scientific composting of nearly 1000 kg of organic waste converted it into valuable manure to support



and Oceanographic Laboratory (NPOL), Kochi, observed Swachhata Pakhwada 2025 on December 1-15, 2025. The campaign began with the swachhata pledge ceremony led by Dr D Seshagiri, OS & Director, NPOL. As part of community outreach, cleanliness drives and facility improvements were carried out. Key contributions included chairs for OP patients, a feeding booth at the PHC, a water purifier at the canteen, restoration of the basketball ground, and revitalization of the park. A mass awareness program featured a 1 km run, friendly sports, and tug-of-war, with participation from nearly 200 personnel—reinforcing the message that health and hygiene go hand in hand. The campaign was coordinated by Dr PA Maheswaran, Sc 'F'.

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DRL, Tezpur

All officials and employees of Defence Research Laboratory (DRL), Tezpur, collectively observed Swachhata Pakhwada 2025 during 1-15 December. During the campaign, all personnel took the swachhata pledge, reaffirming their commitment to cleanliness and hygiene within the office premises. Shramadaan activities were carried

plantation within the campus, significantly reducing the use of chemical fertilizers. The campaign also featured a seminar on pollution, a photo booth, and a signature campaign.

NPOL, Kochi

Naval Physical



TBRL AWARDED PRESTIGIOUS NABL ACCREDITATION FOR BALLISTICS AND HYPER VELOCITY IMPACT TESTING

Terminal Ballistics Research Laboratory (TBRL), Chandigarh, an ISO 9001:2015 certified premier laboratory of the DRDO under MSS cluster, has been awarded the prestigious National Accreditation Board for Testing and Calibration Laboratories (NABL) accreditation for its Ballistics and Hyper Velocity Impact Testing facilities, in accordance with ISO/IEC 17025:2017 standards.

TBRL is actively engaged in the design and development of advanced armament systems and conducts critical studies in the domain of terminal ballistics. In pursuit of enhancing quality assurance and global benchmarking of its test capabilities, the laboratory had applied for NABL accreditation for several of its test facilities, including Ballistics Evaluation and Hyper Velocity Impact Testing.



These accredited test facilities are extensively utilized by the Indian Army, Indian Air Force, Indian Navy, Paramilitary Forces, Central Armed Police Forces (CAPFs), as well as private industries and academia, for design validation and performance verification of ballistics protective products and systems.

It is noteworthy that TBRL has already been awarded the

AS9100D Aerospace Quality Management System (AQMS) certification for design, development and performance evaluation of armament systems for aerospace applications.

The certification was granted by the International Aerospace Quality Group (IAQG), underscoring TBRL's adherence to internationally recognized quality and technical standards.

WORLD QUALITY WEEK 2025

World Quality Week was celebrated at SFC Jagdalpur during 10-14 November 2025 with the theme "Quality—think differently." A quality awareness campaign and a one-day workshop on quality awareness was also organized. Dr MVL Ramesh, OS & GM, SFC, emphasized the two critical aspects of SFC that are safety of the personnel involved in processing and maintaining quality to produce zero-defect solid rocket motors of various programs for the nation. DGM (Mech, Q&S),

SFC, Shri Deo Kumar Verma, Sc 'F' delivered a talk on how quality standards, tools, and norms evolved over a period of time and their applicability in SRM

processing.

Shri A Madhusudhana Rao, Sc 'G' (Retd) delivered an insightful lecture on mission quality—an introspection.



PRODUCTS OF NSTL STEAL THE SPOTLIGHT AT BHARTIYA VIGYAN SAMMELAN AT NATIONAL SANSKRIT UNIVERSITY, TIRUPATI

Naval Science and Technological Laboratory (NSTL), Visakhapatnam, participated in the Bharatiya Vigyan Sammelan-2025 exhibition held at National University Tirupati during 26-29 December 2025 and exhibited its innovative products HEAUV, Swarm, and ALWT.

The NSTL exhibit products were visited by many dignitaries, including Shri Mohan Bhagwat, Chief of the RSS; Chief Guest BVS-2025; Shri Nara Chandra Babu Naidu, CM Andhra Pradesh; Shri Jitendra Singh, Hon'ble MOS Personnel, GOI; Shri Sathya Kumar Yadav, Minister of Health, Govt. of AP; Dr G Sateesh Reddy,

Former Chairman, DRDO; Dr Chandrika Kaushik, DG (PC&SI); and Prof. GSR Krishna Murthy, Vice-Chancellor of National Sanskrit University, Tirupati.

A brief about the NSTL product was given by M Srinivasa Rao, Sc 'G'. A large number of students and the general public shown keen interest in the NSTL exhibits.



DESIDOC PARTICIPATION IN WORLD BOOK FAIR 2026

Defence Scientific Information & Documentation Centre (DESIDOC), Delhi, participated in the World Book Fair 2026, showcasing a wide range of DRDO publications to researchers, students, academicians, and the general public. The DESIDOC stall attracted a large number of visitors who showed keen interest in DRDO journals, and monographs highlighting India's achievements in defence science and technology. The display aimed at enhancing awareness about indigenous research, innovation, and self-reliance in the defence sector. Officials of DESIDOC interacted with visitors, providing



information on DRDO's knowledge resources, publication activities, and access to scientific information services. The participation also

served as an effective platform for outreach, dissemination of scientific knowledge, and promotion of DRDO publications.

SSPL CELEBRATED SEXUAL HARRASSMENT PREVENTION WEEK

The Solid State Physics Laboratory (SSPL), Delhi, observed the Sexual Harassment Prevention Week during 15-19 December 2025. Various activities were organised including a one-day workshop on Sexual Harassment Prevention at the Workplace in which Ms Pallavi Tayal Chadda, the distinguished Advocate of the Supreme Court of India was the speaker. Dr DS Rawal, Director SSPL, emphasised the significance of gender equality and a safe workplace for all employees to achieve organizational goals in his address. Dr Jaya Lohani, Sc 'F', presented the vote of thanks.



WORKSHOP ON 'PRINCIPLES OF SPACE OBJECT DETECTION, TRACKING & CATALOGUING' AT ARIES

Instruments Research & Development Establishment (IRDE), Dehradun, organised a three-day workshop on 'Principles of Space Object Detection, Tracking & Cataloguing using State-of-the-art Ground Telescopes' at Aryabhata Research Institute of Observational Studies (ARIES), Nainital, during 9-11 December 2025. Dr BK Das, DS & DG (ECS) was the Chief Guest and delivered the keynote address.

Dr Anupam Sharma, DS & Director, DSP addressed the gathering and highlighted the challenges of space situational awareness in defence applications. Dr Ajay Kumar, OS & Director IRDE, emphasized the strategic



importance of space situational awareness and its need for defence applications. Dr Manish Naja, Director ARIES also addressed the gathering during inauguration.

A total of 60 participants from various DRDO laboratories, ISRO, ARIES, and IIT Kanpur attended

the workshop. Dr Manvendra Singh, Sc 'G' & Additional Director, IRDE was the Chairman of the workshop. Shri Abhijit Chakraborty, Sc 'F', IRDE was the workshop coordinator and Shri Siddharth Negi, Sc 'E', IRDE was the PoC for the workshop.



TRAINING ON 3D PRINTING TECHNOLOGIES

As a significant step towards capacity building on modern printing technologies, the Directorate of Human Resource Development (DHRD), DRDO HQrs, successfully organized a comprehensive training program on “3D Printing (Metal/Material/Aerospace/Food)” for 26 DRDO scientists during 11-22 November 2025 at IIT Roorkee. The program aimed to equip DRDO scientists with cutting-edge printing technologies, enabling them to accelerate innovation in manufacturing processes. The program was intensive and application-oriented; participants developed advanced practical skills

in optimizing the 3D printing process, gained exposure to state-of-the-art metal, material, aerospace, and food 3D printing techniques, and gained exposure to real-world case studies and emerging innovations that were presented to contextualize the training. Participants, in small

groups, worked through the complete workflow of the 3D printing process. With this enhanced expertise, scientists are well positioned to drive innovation in Defence manufacturing, reinforcing India’s strategic capabilities in the emerging technology domain.



IRDE PARTICIPATION IN WORLD SUMMIT ON DISASTER MANAGEMENT

Instruments Research & Development Establishment (IRDE), Dehradun, participated in the ‘World Summit on Disaster Management 2025’ organised by the Government of Uttarakhand, the Uttarakhand Council for Science & Technology (UCOST), and the Himalayan Academy of Science & Technology (HAST) during 28-30 November 2025 in Dehradun, Uttarakhand. The objective of the summit was to enhance international cooperation, to foster multi-stakeholder partnerships, and to support innovative technologies





for disaster preparedness. The summit convened experts, scientists, industry leaders, and policymakers to address rising disaster risks.

IRDE displayed its products and technologies under the DRDO pavilion in the summit. IRDE showcased the Hand Held Thermal Imager (HHTI),

Helmet Mounted Thermal Imager (HMTI), and Passive Night Vision Goggle (PNVG) at the summit. The IRDE exhibits elicited widespread response from dignitaries and students from various local universities like Uttaranchal University, Graphic Era University, and IIT Roorkee. Dr Ramesh Pokhriyal 'Nishank,' former Chief

Minister of Uttarakhand, visited the DRDO pavilion. He took keen interest in the products and technologies developed by IRDE. Dr Vinay Kumar, Sc 'F' from IRDE, explained in detail about these products and technologies to Dr Ramesh Pokhriyal 'Nishank' and other VIP dignitaries during the event.

INTERNATIONAL CONFERENCE ON ELECTRO-OPTICS & PHOTONICS (EOP – 2025)

Instruments Research & Development Establishment (IRDE) Dehradun, organised an 'International Conference on Electro-optics and Photonics (EOP-2025)' during 18-20 November 2025. The focus of the conference was on electro-optic instrumentation for multispectral and multiplatform applications. Dr Samir V Kamat, Secretary, Department of Defence Research & Development & Chairman DRDO, was the Chief Guest during the inaugural session, and Dr BK Das, DS & DG (ECS), was the Guest of Honour. Dr Kamat appreciated the IRDE team for organizing the conference on emerging areas of research. Dr Das inaugurated the conference exhibition, scheduled to be organized in parallel with the conference. Shri LC Mangal, DS & DG (TM), brought out the

importance of the topics covered in the conference. Dr Ajay Kumar, OS & Director IRDE, welcomed all the delegates and exhibitors for presenting their research work and displaying products during the conference. Prof. S Prabhu, TIFR Mumbai and technical chair of the conference, spoke about the theme of the conference. Dr

Sudhir Khare, OS & Sc 'H', IRDE, and co-chair of the conference, was also present during the inaugural session. Dr Nimish Dixit, Sc 'G' & convener of the conference, gave a brief overview of the conference during the inaugural session. Mr Ajay Mishra, Sc 'F' & co-convener of the conference, presented the vote of thanks.



LAB CLASSES ON SYSTEM WARFARE PLATFORMS AT VRDE

Lab classes for M Tech. (Defence Technology) students on the subject 'System Warfare Platforms' were conducted

at the Vehicle Research and Development Establishment (VRDE), Ahilyanagar, during 15-17 December 2025 through IDST,

Pune. A batch of 20 students from VJTI Mumbai and MIT Manipal participated in these classes. The students were exposed to



various technologies developed by VRDE in the area of System Warfare Platforms. The students were exposed to the fundamental architecture and advanced design features of warfare platforms and

got the opportunity to discuss and learn with designers of the various platforms, such as AAP, WhAP, WhAP CBRN, MGS, AFVs, and UGVs.

The students also had the

chance to witness various demonstrations & trials of different platforms at the National Centre for Automotive Testing (NCAT) during their session at VRDE.



COURSES BY DMSRDE, KANPUR

Low to Medium Velocity Impact Material Technologies

Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur organised a course on 'Low to Medium Velocity Impact Material Technologies' during 8-12 December 2025. A total of 30 participants from DMSRDE and various sister DRDO laboratories attended the course. The course was inaugurated by Chief Guest Dr Kingsuk Mukhopadhyay, OS & Director, DMSRDE, and Guest of Honour Prof. YM Joshi, IIT

Kanpur. Prof. Joshi delivered the keynote lecture on the topic 'Role of Rheology in Quality Control & Predicting Stability of Industrial Dispersions/Pastes.' Eminent speakers from DMSRDE and various sister DRDO laboratories and reputed national institutes, namely IISc-Bangalore, IIT-Kanpur, IIT-Delhi, IIT-Kharagpur, IIT-Roorkee, IIT-Dharwad, IIT-Gandhinagar, HBTU-Kanpur, ATIRA-Ahmedabad, and industry, delivered scientific talks on recent

technological advancements in the fields of adaptive and stimuli-responsive materials, smart materials with impact-resistant applications, shear-thickening materials for kinetic energy dissipation, and materials for fabrication of blast-proof coatings.

The course participants visited M/s MKU Ltd., Kanpur, to have practical exposure. Dr Debmalya Roy, Sc 'G' was the Course Director, and Dr Subhash Mandal, Sc 'E' was the Deputy Course Director.



Electromagnetic Field Simulation and Analysis Using Ansys Electronic Enterprises

A two-day specialized workshop under the Skill Development Program on “Electromagnetic Field Simulation & Analysis Using Ansys Electronic Enterprises” was organized by DTTC (DMSRDE), Lucknow, during 18-19 December 2025. The program was designed to provide concept-oriented and hands-on training for both industry professionals and engineering students.

A total of 20 participants, primarily from Electronic & Communication Engineering, took part in the program. The technical sessions were delivered by experts in electromagnetic field simulation & analysis using Ansys Electronic Enterprises from DLRL, IET, DMSRDE, MNNIT, DEAL, IIT, and Infinipoint Technologies.

The workshop was inaugurated by the Chief Guest Dr Praveen Kumar Shukla, Dean/Professor, BBD University, Lucknow. Shri Virendra Prasad, Sc ‘E’ and Course Coordinator, provided an overview of the program. Dr Ashish Dubey, Sc ‘G’ & PD, DTTC, highlighted DTTC’s role in supporting MSMEs

and startups and briefed the participants about the Centre’s technical facilities and mandate. During the valedictory session, PD, DTTC interacted with participants, gathered feedback, and underlined the importance of building strong conceptual foundations for developing industry-ready skills.



Cluster Level Workshop on Vigilance and Security Sensitization Program

Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, organized a cluster-level two-day workshop on the ‘Vigilance and Security Sensitization Program’ during 18-19 December 2025. A total of 24 participants from DMSRDE and various NS&M cluster laboratories attended the workshop. The workshop was inaugurated by Chief Guest Dr Kingsuk Mukhopadhyay, OS & Director, DMSRDE, and Guests of Honor Mrs Saumya Pandey, IAS, Director ESIC & Additional Commissioner Labour UP, and Mr KC Jha, Regional Director ESIC. The Chief Guest in his address, said that vigilance and security are



two pillars in an organisation and both are closely linked with each other. Smt Saumya spoke about the iDEX scheme, the Defence India Start-up Challenge, and the Defence Procurement Policy of the Govt. of India.

Eminent speakers from

DMSRDE and SAG, Additional Standing Counsel of the Govt. of India, and the Assistant Commissioner, PF, Ministry of Labour, delivered talks.

The workshop was coordinated by Dr Harish Kumar, Sc ‘F’ & Vigilance Officer, and his team.



LAUNCH OF VIKIRAN PREHRI-PERMANENT FLAGSHIP PROGRAM FOR HANDLING RADIATION EMERGENCIES

Vikiran Prehri-A Permanent flagship program for handling radiation emergencies was launched by Dr Samir V Kamat, Secretary, DD R&D & Chairman DRDO in the presence of Surg Vice Adm Arti Sarin, AVSM, VSM, DGAFMS, Dr BHVS Narayana Murthy, Hon'ble Vice Chancellor Defence Institute of Advanced Technology (DIAT), Pune, Dr UK Singh, DS & DG (SSS), Dr (Ms) Chandrika Kaushik, DS & DG (PC & SI), Lt Gen CG Muralidharan, DG Medical Services (Army), Surgeon Vice Admiral Kavita Sahai, SM, VSM, DG Medical Services (Navy), Air Marshal Sandeep Thareja, SM, VSM** DG Medical Services (Air), Lt Gen Vineet Sharma, AVSM, VSM, DG Dental Services, Lt Gen Avinash Das, Commandant, Army

Hospital (Research & Referral), Lt Gen Pankaj P Rao, Director & Commandant AFMC Pune, Dr Sudhir Chandna, Director INMAS, Sh Amit Sharma, Director DISB at Army Hospital R&R on 24 November 2025, reflecting the high level institutional commitment to this critical national program.

The program is a structured

capacity-building initiative aimed at training AFMS medical officers, specialists, and allied healthcare professionals in handling radiation emergencies and reinforcing DRDO's mandate in preparedness against radiation exigencies while empowering AFMS to serve as a robust medical shield during high-impact emergencies.



WORKSHOP AT RCMA-KORWA

Towards creating awareness of airworthiness and certification procedures and handholding the D&D agencies involved in design, development and manufacturing of military aviation technology/products, a one-day workshop with the theme "Transforming Certification and Strengthening Industry Partnership" was conducted at Korwa (UP) on 25 November 2025 under the aegis of RCMA Korwa.

Approximately 80 members from DRDO, HAL, BEL, Services and various private industries attended the workshop. As special

guests, IFA (R&D), PCDA, New Delhi and Mr APVS Prasad, Sc 'H' & OS, CE (A), CEMILAC were also in attendance.

CE(A) while addressing the gathering emphasised the importance and advantages of digitisation and the efforts made to ensure industry friendly, safe and secure e-Certification portal. He also touched upon the phase-3 reforms and stressed upon usage of Certification Kit Ver 2.0 and Importance of Designated Engineering Representative (DER). Certification kits containing self-explanatory videos, templates,

standards, etc. were distributed to the participating industries.



COURSES AT ITM, MUSSOORIE

Training Program on HR Management and TNA

A two-day training program on Human Resource Management & Training Need Assessment was organized by the Institute of Technology Management (ITM), Mussoorie, in collaboration with the Indian Institute of Management, Kashipur, during 22-23 December 2025. The course was specially designed for personnel working in the HR Division in various DRDO laboratories and ITM faculty members. A total of 30 participants from ITM and other DRDO laboratories participated in the program. The objective of the program was to equip the participants with skills to identify skill gaps and align training initiatives with organisational goals effectively.

The event was inaugurated by Shri SP Dobhal, Director ITM, and Prof. Shubham Sharma, IIM Kashipur. In his inaugural address, Director, ITM, emphasised upon the need for structured TNA for identifying the skills gap of knowledge workers working in R&D organization.

The program covered various topics like foundation of training

needs assessment, methods and analysis of data collection for TNA, individual level tna, organisational level TNA, designing strategic workforce planning for R&D organisations, competency & monitoring, and evaluation & impact assessment of training in scientific institutions. The program concluded with a vote of thanks by Course Director Shri Anuj Kumar, Sc 'B'.



Course on Introduction to DPFM

A five-day course on 'Introduction to Directives on Project Formulation & Management in DRDO (DPFM) with DP&C' was organized by the Institute of Technology Management (ITM), Mussoorie, during 15-19 December 2025. A total of 25 senior scientists from different DRDO laboratories participated in the course. The objective of the course was to update the scientists with project management in DRDO, with emphasis on 'Directives for Project Formulation and Management.'

During his inaugural address, Shri SP Dobhal, Director, ITM, emphasized the importance of pre-project activities and how

the DPFM guidelines serve as a foundation for effective formulation, execution, and monitoring of projects in DRDO and also highlighted the critical role of documentation at every stage of the project life cycle, underscoring it as a key to transparency and accountability.

The program concluded with a valedictory address by Chief Guest, Dr Sumit Goswami, Director DP&C. He interacted with the participants and obtained their views on the course. The course concluded with a debriefing and vote of thanks by Course Director, Dr HS Gusain, Sc 'F'.





Training on Foundation of Project Management by ITM and DVS

A five-day training for security officers of DRDO laboratories and service officers on 'Foundation of Project Management,' in consultation with DVS, was organized by the Institute of Technology Management (ITM), Mussoorie, during 1-5 December 2025 at ITM Mussoorie. A total of 31 officers took part in the course, out of which 21 were security officers from various DRDO laboratories and 5 officers each from the Indian Air Force and Indian Navy.

Chief Guest, Dr Mayank Dwivedi, OS & DG (HR), virtually inaugurated the course. Director ITM also interacted with the

participants and emphasized the importance of the course and urged participants to take full advantage of the training.

During the course, various topics on project management, risk management, cost estimation

under uncertainty, CPM, PERT, RACI, project management methodologies, time estimation under uncertainty, etc., were covered. Course Director Lt Col Gaurav Tewari concluded the course with a vote of thanks.



VO-D MANDATORY TRAINING PROGRAM AT VRDE

The Vehicle Operator-D (VO 'D') mandatory training program was conducted at Vehicle Research and Development Establishment (VRDE), Ahilyanagar, during 3-14 November 2025, with enthusiastic participation from various DRDO laboratories across the country. This was a CEPTAM program conducted at VRDE in accordance with the recruitment rules, with a mandate for a two-week training course for VO-D personnel to qualify for their next higher grade, i.e., VO 'E'. The initiative reflected VRDE's commitment to strengthening the professional competence of vehicle operators, who form the operational backbone of logistics, mobility, and field movement across DRDO's wide spectrum of projects. The



course offered an intensive mix of classroom lectures, practical sessions, case studies, field visits, and interaction with experts.

During the valedictory function, Director VRDE encouraged participants to apply knowledge

gained in the course and wished for further assessment and career progression. The course was a significant step forward in their professional growth for efficient and effective contribution towards future DRDO projects.

CONFERENCE ON EMERGING TRENDS IN VACUUM ELECTRONICS DEVICES & APPLICATIONS–VEDA 2025

Microwave Tube Research & Development Centre (MTRDC), Bengaluru, organised the national conference on Emerging Trends in Vacuum Electronic Devices & Applications (VEDA-2025) jointly with the Vacuum Electronic Devices & Applications Society (VEDAS), Bengaluru, during 3-5 December 2025.

Dr BK Das, DS & DG (ECS), graced the occasion as the Chief Guest, while Shri Unmesh

D Malshe, Director, RRCAT, attended as the Guest of Honour. The session commenced with a welcome address by Dr SK Datta, OS & Centre Head, MTRDC, and President, VEDA.

Shri M Sheikh Altaf, OS & Director, LRDE and MTRDC, graced the occasion as the Chief Guest during the valedictory function, while Shri G Viswam, OS & former Director, LRDE and MTRDC, was the Guest of Honor.



WORKSHOP ON ON-SITE GENERATION OF NUTRIENTS FOR CRITICAL MISSIONS

Defence Institute of Bio-Defence Technologies (DIBT), Mysuru, organized an online workshop “On-Site Generation of Nutrients for Critical Missions” to facilitate deliberations on recent S&T advancements, integration challenges, and future research directions in this emerging domain. The workshop brought together a diverse group of stakeholders, including scientists from various DRDO laboratories, faculty members from academic institutions, researchers, representatives from startups, industry professionals, and participants from DIA–Centres of Excellence. A total of 66 participants attended the workshop, comprising 27 offline and 39 online participants, reflecting strong interdisciplinary and cross-sectoral engagement.

The program commenced



with an inaugural session by Dr R Kumar, Centre Head, DIBT, Mysuru. Dr MM Parida, Director, DRDE, Gwalior, in his introductory remarks, emphasized the relevance of bioprocess engineering and autonomous biomanufacturing systems for future critical missions.

The inaugural address was delivered by Dr UK Singh, DS &

DG (SSS), who highlighted the strategic importance of sustainable and on-site nutrient generation using locally available resources for defence and space missions.

The workshop was organized by Dr OP Chauhan, Sc ‘G’, with Dr Rudragoud P, Sc ‘F’ and Dr Janifer Raj Xavier, Sc ‘E’, who also coordinated the technical sessions during the workshop.



COURSE ON CBRN EMERGENCY MANAGEMENT FOR CRPF PERSONNEL AT INMAS

A five-day specialized training course on CBRN Emergency Management was conducted for 45 CRPF personnel during 5-9 January 2026 at the Institute of Nuclear Medicine and Allied Sciences (INMAS), Delhi. The program began with an inaugural session followed by an overview of CBRN threats by Dr Himanshu Ojha, Sc 'F' & Head, CBRN. Participants received hands-on exposure to key equipment including the whole body counter, radiological detectors, protective gear, DAKSHA remotely operated

vehicle, Netra UAV, and ultra swachh systems. The Hazmat vehicle and its capabilities along with real-time field mock drill on chemical incident management

were demonstrated by Delhi Fire Service and NDRF. The course concluded with a valedictory address by Dr Sudhir Chandna, OS & Director, INMAS.



I-GOT KARMAYOGI TRAINING PROGRAM AT MTRDC

The iGOT Karmayogi Jan Seva Training Program was conducted at the Microwave Tube Research & Development Centre (MTRDC), Bengaluru, in four batches, encompassing employees across all cadres. A total of 36 participants in Batch 1, 36 participants in Batch 2, 22 participants in Batch 3, and 27 participants in Batch

4 participated in the training program. The program was coordinated by master trainer Shri Ravi Ninavath, Sc 'E'.



HEALTH AWARENESS TALK AT NPOL

Naval Physical and Oceanographic Laboratory (NPOL), Kochi, organized a health awareness talk on "Ayurveda: A Way of Life" to create awareness on the benefits of Ayurveda treatment among the employees, in coordination with Parathuvayalil Hospital, Perumbavoor, on 17 December 2025. Dr Rema Devi

M, Sc 'G' & Chairperson, NPOL, Works Committee, welcomed the gathering and briefed the topic. Dr Nina Madappillil, BAMS, Senior Consultant, Parathuvayalil Hospital, Perumbavoor, during her talk explained the importance of Dinacharya for better health and why the Ayurvedic way of disease management is still relevant.



PRESTIGIOUS SKOCH AWARDS IN GOLD CATEGORY

Two major systems D4 Counter Drone system and Dharashakti EW system from ECS cluster have been conferred with prestigious SKOCH award in Gold Category.

D4 Counter Drone System is developed by four DRDO laboratories-LRDE, Bengaluru as the nodal laboratory, and DLRL, Hyderabad; CHES, Hyderabad; IRDE, Dehradun as participating laboratories. Dharashakti is developed by DLRL with IRDE.

the awards were received by Dr BK Das, DG (ECS) during 104th SKOCH summit at New Delhi on 10 January 2026, in the presence of Shri Sheik Althaf M, Director LRDE and Shri K Murali, Director DLRL along with Project Directors.



PK DAS MEMORIAL LIFETIME ACHIEVEMENT AWARD 2025

The PK Das Memorial Lifetime Achievement Award 2025 was conferred on Dr K Kadirvelu, Sc 'G' & Associate Director, Defence Bioengineering and Electromedical Laboratory (DEBEL), Bengaluru, in recognition of his exemplary and sustained contributions in the field of science, technology, and education abetting national development.

The prestigious award, instituted by Nehru College of Educational and Charitable Trust & Nehru Group of Institutions, Coimbatore, Tamil Nadu, in memory of the late Shri PK Das, honors individuals whose lifelong contribution and dedication has



significantly influenced research, innovation, and human resource development. Dr Kadirvelu's career stands as a testimony to mission-oriented basic research for various civil and defence applications. He has 190

publications to his credit with 20000 citations and an h-index of 62 (75 papers published in the journals with an impact factor > 5 and 25 papers published in the journals with an impact factor > 10).



BEST POSTER PRESENTATION AWARD

Dr Geetika, Sc 'E', Defence Bioengineering and Electromedical Laboratory (DEBEL), Bengaluru, won the Best Poster Presentation Award in recognition of her outstanding research presentation and scientific excellence for her poster titled "Design of Plastic Optic Fiber-Based Sensor for Fuel Level

Monitoring." The article authored by Dr Geetika, Ms Madhu Renuka A, Dr JK Radhakrishnan, and Dr Sudhir S Kamble was presented at the 4th Annual International Conference: Women in Optics & Photonics in India 2025, held at Punjab Engineering College, Chandigarh, during 5-7 December 2025.



BOOK PUBLISHED

Dr L Sree Vardhan of Centre for Advanced Systems (CAS), Hyderabad has authored a book titled "Numerical Metallurgy: Problems & Solutions". This textbook represents an attempt to present a relatively brief introduction to numerical calculations related to subjects of metallurgical engineering. Numerical problems are designed in the subject areas of Metallurgical Thermodynamics and Kinetics,

Physical Metallurgy, Heat Treatment, Transport Phenomena, X-Ray Diffraction, Corrosion

Engineering, Metallography, Materials Science and Engineering, Mechanical Behavior of Materials, Mechanical Metallurgy, Metal Casting, Solidification, Manufacturing Processes, and Mineral Processing. The book is published by Ane Publishers and Distributors LLP, New Delhi, India.



SPORTS ACTIVITIES

DRDO SOUTH ZONE CRICKET TOURNAMENT 2025-26

DRDO South Zone Cricket Tournament 2025-26 was organised by Centre for Military Airworthiness & Certification (CEMILAC), Bengaluru during 8-13 December 2025. The tournament was inaugurated by CE (A) CEMILAC, GM, FMD (HAL) & Director (Materials & PI), CEMILAC. CE (A), CEMILAC emphasized the importance of sports in life and how it inculcates the competitive spirit and camaraderie which is required in professional life as well. The



final match was played between GTRE and LRDE, wherein LRDE won its first ever title. This year, tournament witnessed many previous records broken in terms of runs and wickets. Keeping this

in mind CEMILAC sports committee led by Shri Arul Kumaresan, Sc 'F', introduced and awarded Best Batsman and Best Bowler of the tournament.

During the valedictory, Dr Ananth Padmanabha Sc 'G', congratulated all the teams and appreciated organizing committee for smooth and successful conduct of the tournament.



UNMESH-2026

Directorate of Parliamentary Affairs, Rajbhasha and Organization & Methods (DPARO&M), DRDO HQrs along with Naval Physical and Oceanographic Laboratory (NPOL), Kochi, as nodal laboratory organized An All-India Technical Official Language Conference - 'UNMESH-2026' on the occasion of World Hindi Day, during 10-11 January 2026, at Kochi. The conference was graced by Ms Anshuli Arya, IAS, Secretary, Rajbhasha Vibhag, MHA, as the Chief Guest and Dr Samir V kamat, Secretary, DDR&D & Chairman DRDO, as Distinguished Guest. The conference was also beautified by esteemed dignitaries such as DG (NS&M), DG (R&M), Director, NPOL and Director, DPARO&M, Mrs Rama Devi SC 'G' and Shri Chandra Prakash Meena Sc 'F'. The Souvenir of the conference was also released on the occasion.

The Chief Guest praised the DRDO's initiative in her address



for organizing a technical seminar in Hindi and appreciated the inclusion of a special session in regional language Malayalam, highlighting the importance of multilingual technical communication. Dr Kamat addressed the gathering and highlighted that this conference is aligned with the theme of Hon'ble PM's dream of Viksit Bharat

and opened to various reputed institutions and universities such as ISRO, BARC, CSIR, IITs, NITs, IITDM, etc. for papers on the topic of 'Role of S&T in Development of the Nation'. Mr Chandra Prakash; Mr Ram Lochan Awasthi, Sc 'E', Mrs Arun Kamal AD (OL) and Ms Ashwini Shreedhar, STO played a pivotal role in planning and execution of the conference.

ALL INDIA JOINT OFFICIAL LANGUAGE S&T SEMINAR ON ARMAMENT AND WARFARE ENGINEERING SYSTEMS

The High Energy Materials Research Laboratory (HEMRL), Pune, organised the All India Joint Official Language Scientific and Technical Symposium (ACE Systems) during 11-12 December 2025. The theme of the symposium was "Developed India @ 2047: DRDO's Contribution" which focused on showcasing India's technological advancements and self-reliance in defence systems.





The event was inaugurated by the Hon'ble Chief Guest, Padma Shri Dr Santram Deswal, "Soumya", in the presence of Dr Himanshu Shekhar, Officiating Director and Sc 'G' HEMRL.

Prof. (Dr) Prateek Kishore, DS & DG (ACE) and Dr AP Dash, Director & DS, joined the inaugural ceremony via video link. The symposium featured S&T research papers from various DRDO

laboratories across the country. The two-day event featured over 150 technical presentations in various sessions, highlighting DRDO's role in making India self-reliant in defence systems.

HINDI WORKSHOP AT DRDO HQRS

The Directorate of Parliamentary Affairs, Rajbhasha, and Organisation & Methods (DPARO & M) conducted a one-day workshop on 22 December 2025 at DRDO HQrs, reaffirming its commitment to promoting Rajbhasha (OL) in the workplace. Smt Arun Kamal, Assistant Director (OL), welcomed the guest speaker Mr Kamlesh Kumar Kamal, Public Interface Officer, ITBP, New Delhi. Mr Kamlesh highlighted the importance of

the simple use of Hindi in official work and emphasized how to write correct Hindi by connecting to the base of the language, as Hindi is very scientific and logical. He motivated participants to integrate Hindi into daily administrative work and shared practical tips for learning and using Hindi efficiently. More than 40 participants

attended the workshop. The workshop was coordinated by Pratishtha Mishra, STO.



HINDI WORKSHOP AT DESIDOC

A one-day Hindi Workshop was conducted at Defence Scientific Information & Documentation Centre (DESIDOC), Delhi, on 30 December 2025. The workshop was inaugurated by Smt Kiran Chauhan, Director DESIDOC. Dr Rashmi Aggarwal, Sc 'F' & Head of Thyroid Centre INMAS, was the guest speaker on the occasion. Smt Alka Bansal, Sc 'G', Dr Md Yusuf Ansari, Sc 'G' and Shri Tapesh Sinha, Sc 'F' were also present on the occasion. Dr Rashmi delivered a talk on "Rajbhasha Vaigyanic Drishtikon: Swasthaye ke Prati Ek Samagr Chintan". She spoke about how



to present scientific and technical topic in a simple way in Hindi and share her experience's about protection of mental as well as

physical health specially after Corona pandemic. All employees of DESIDOC participated in the workshop.

VISITORS TO DRDO LABORATORIES

DMSRDE, Kanpur

Dr Mayank Dwivedi, OS & DG (HR and R&M), visited Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, on 22 December 2025. Dr Kingsuk Mukhopadhyay, OS & Director, DMSRDE, welcomed DG (HR and R&M) and briefed him about DMSRDE technical activities and ongoing R&D activities. He also interacted with the DMSRDE team, consisting of associate directors and divisional heads.



DYSL-QT, Pune

On 3 November 2025, 22 Tri-Service Officers of the DSTC-08 Course, MILIT, including officers from friendly nations, visited DYSL-QT, Pune, marking a significant level of academic and professional engagement. The visit aimed to familiarize officers with cutting-edge advancements in quantum computing, communication, QRNG, and sensing. Officers were briefed on ongoing research at the lab and witnessed demonstrations of experimental setups that illustrated the potential of quantum technologies in defense and national security.

The interaction fostered knowledge exchange between scientists and officers, emphasizing interdisciplinary collaboration. The visit broadened the officers' technological perspective and strengthened institutional ties, paving the way for future



cooperation in emerging strategic technologies.

HEMRL, Pune

Air Cmde Shine C Dathan (Air Cmde ASE) visited the High Energy Materials Research Laboratory (HEMRL), Pune, on 18 December 2025. During the visit, presentations were made by the senior scientists on IR decoy flares,

the development of the MDC detonator for HAWK CSS, EAX, power carts, impulse cartridges, high explosives for warheads, and solid rocket propellant developed for various rocket motors.

He interacted with senior scientists and discussed various aspects of projects related to the Indian Air Force. He appreciated the contribution of HEMRL to the

Indian Air Force and highlighted the DRDO's role in the present scenario w.r.t. indigenous products.

NPOL, Kochi

Parliamentary Standing Committee on Defence (SCoD), under the Chairmanship of Hon'ble Shri Radha Mohan Singh, undertook a study visit to NPOL, Kochi, on 17 January 2026. Dr Samir V Kamat, Secretary DD (R&D) and Chairman DRDO, Dr RV Haraprasad DS and DG (NS&M), Dr Ravindra Singh, OS & DG (R&M), Dr D Seshagiri OS & Director NPOL welcomed the Chairman and 21 member delegation comprising 14 Hon'ble Members of Parliament, 7 Officials from Lok Sabha Secretariat and Ministry of Defence.

The committee witnessed underwater sensors and related technologies developed by NPOL



including live demonstrations of various systems. The delegation appreciated NPOL's R&D efforts in developing sonar systems for Indian Navy.

Director NPOL, briefed the committee on the R&D activities and the major sonar development programmes and projects of NPOL, considering the Indian

Navy's requirements.

Chairperson, SCoD appreciated the presentation made and the clarifications provided by NPOL. Chairman DRDO replied to the insightful queries posed by the Hon'ble members. The delegation appreciated the efforts of NPOL and wished them success in all their future endeavours.

