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DRDO-INDUSTRY SYNERGY MEET: VIMARSH





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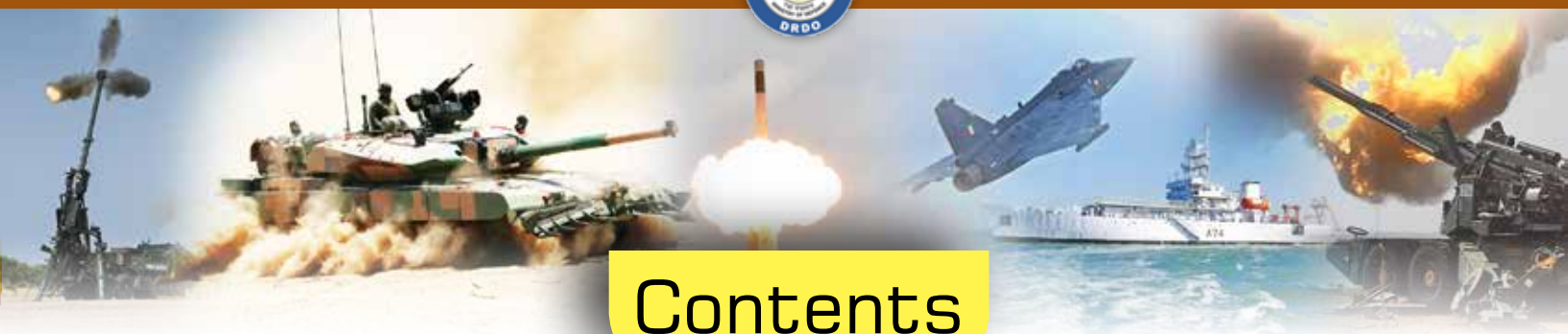
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46th Year of Publication

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DRDO-INDUSTRY SYNERGY MEET: VIMARSH

RAKSHA MANTRI UNVEILS KEY POLICY INITIATIVES TO EMPOWER MSMEs & START-UPS AND LAUNCHES FRAMEWORK TO SHARE SOFTWARE SOURCE CODES WITH LICENSEE INDUSTRIES

Hon'ble Raksha Mantri Shri Rajnath Singh unveiled key policy initiatives during 'VIMARSH', a DRDO-Industry Synergy Meet, in New Delhi on 15 September 2026. The initiatives include a comprehensive framework to lower technical and financial entry barriers for MSMEs and deep-tech start-ups, offering direct funding, incubation support and dedicated access to DRDO testing facilities. A standardised, secure framework for sharing DRDO-developed software source codes with licensee industries was also launched to accelerate software-defined defence capabilities and obsolescence management.

Nine Licensing Agreements for Transfer of Technology (LAToTS) were handed over to 13 manufacturing partners in the presence of the Raksha Mantri to enable commercial production of state-of-the-art systems.

Strategic MoUs were also formally exchanged with the Society of Indian Defence Manufacturers (SIDM) and Laghu Udyog Bharati (LUB) to expand industry outreach and foster grass-roots participation. DRDO also signed a contract with the Quality Council of India for the System for Advanced Manufacturing Assessment and Rating (SAMAR) version 2.0 to benchmark the manufacturing maturity of domestic defence enterprises.

In his address, Hon'ble Raksha Mantri asserted that the DRDO-Industry collaboration should no longer be limited to production alone but should be expanded across the entire value chain, encompassing research, design, testing, certification, and manufacturing, to transform India into a global hub for defence manufacturing. "DRDO possesses knowledge and technology, the industry has scale and manufacturing capability, start-ups bring innovation and agility, and the youth hold the dream of a New India. When these four forces converge and move forward together, no goal is impossible," he said.

Raksha Mantri added that grants are being provided to start-ups through the Technology Development Fund, and numerous technologies have already reached the production stage. He highlighted that iDEX has also created a new ecosystem for defence innovation, where start-ups are developing solutions based on actual operational requirements.

Describing start-ups and MSMEs as the new flag-bearers of innovation in India, Shri Rajnath Singh stated that these industries play a pivotal role in achieving the goal of Aatmanirbhar Bharat as they develop components, sub-systems etc. for major defence

systems alongside state-of-the-art technologies. He underscored the need to integrate MSMEs and start-ups as integral parts of the defence supply chain alongside large industries, expressing confidence that the new initiatives would create fresh opportunities for the defence supply chain alongside large industries, expressing confidence that the new initiatives would create fresh opportunities for industry.

Raksha Mantri highlighted that the new policy initiatives focus on promoting industry-led R&D; providing funding and mentorship to start-ups and MSMEs; fostering academia-industry collaboration; and encouraging investment in futuristic technologies such as AI, quantum computing, hypersonics, and directed energy.

Speaking on the occasion, Defence Secretary and Secretary, Department of Defence R&D, and Chairman, DRDO, Shri Rajesh Kumar Singh said VIMARSH 2026, centered on the theme 'Varta se Vikas', has been strategically designed to align cutting-edge commercial innovation with national defence readiness and systematically integrate private sector capabilities into the core of the defence ecosystem. This forum serves as a key vehicle for transforming the national security framework from a mere transactional buyer-seller



relationship into a collaborative, co-created technology ecosystem, he said.

Shri Rajesh Kumar Singh also highlighted the transformation witnessed by the defence sector in recent years due to the government's self-reliance efforts. "The expansion of technology transfer has not only facilitated the establishment of parallel production lines to meet the Defence Forces' requirements, thereby directly benefiting MSMEs, but has also helped alleviate the constraints that previously hindered a limited manufacturing base.

To date, over 2,300 Technology Transfers (ToTs) have been handed over to more than 1,100 industries. Currently, we have made technologies related to approximately 50 missiles developed by DRDO available to

the industry to foster increased participation," he added.

A book titled 'Defence Systems for Resilient Bharat – Advancing Aatmanirbharta in Defence', a special compilation documenting significant defence systems developed by DRDO's technology clusters between 2014 and 2026, was also released during the event, along with the guidelines for Human Resource Outsourcing Service Contracts in DRDO. The guidelines provide a comprehensive framework for the formulation of service specifications for the procurement, selection of suitable service providers, contract administration, performance monitoring and compliance with contractual as well as statutory obligations for human resource outsourcing across DRDO labs.

Secretary (Defence Production)

Shri Sanjeev Kumar, Secretary (Defence Finance); Shri Vishvajit Sahay and Distinguished Scientist & Director General (Production Coordination & Services Interaction), DRDO Dr (Smt) Chandrika Kaushik was present on the occasion.

During the technical sessions, Directors General of DRDO Technological Clusters outlined technical roadmaps across aeronautical systems, missiles, armaments, microelectronics, and naval systems. DRDO HQ introduced initiatives aimed at simplifying procedural compliance, fast-tracking facility access, and compressing licensing timelines. Over 250 defence industry leaders, industry chamber representatives, senior civil and military officials, and senior DRDO scientists attended the flagship event.



FIRST MILITARY COMBAT PARACHUTE SYSTEM MCPS JUMP AT HIGH ALTITUDE DZ

Aerial Delivery Research and Development Establishment (ADRDE), Agra, has developed the 'Military Combat Parachute System (MCPS)' as per JSQR No: 1670-1 (revised in 2022) for the Armed Forces. MCPS has been inspected by DGAQA and certified by the Centre for Military Airworthiness and Certification (CEMILAC), Bengaluru. The following subsystems of MCPS have been functionally tested during the jumps:

- ◇ Parachute System
- ◇ High Altitude Oxygen Breathing System
- ◇ Navigation Equipment
- ◇ Individual Gears

The jump demonstration of MCPS at the high-altitude landing area Drop Zone (DZ) as per the recommendation of Air HQ (VB). The MCPS jumps at high altitude areas (Leh and Nyoma) are required to be conducted to demonstrate the performance of MCPS in terms of various tactical features like lower rate of descent, superior steering capabilities, enabling paratroopers to safely exit the aircraft, deploy parachutes at predetermined altitudes, navigate accurately and land at designated zones at high altitude areas.

On 25 August 2026, the Military Combat Parachute System (MCPS), the pinnacle of the indigenous parachute system under Atmanirbhar Bharat, achieved yet another milestone by landing at

one of the world's highest altitudes, Drop Zones (Nyoma, Mudh DZ). The jump was undertaken from 22,000 feet AMSL, wherein the temperature was -15 degrees Celsius, and utilised MCPS and all other subsystems, including the indigenous Para computer, oxygen system and jumpsuits. The parachute was deployed at 20,000 feet AMSL, and landing was undertaken at Nyoma, Mudh DZ, which is at 13,700 feet. Even in a rarefied atmosphere, the opening shock was nil, and landing by the jumpers was soft on the DZ. The conditions on the ground were winds at 5 knots, and the ground temperature was 1 degree Celsius.

The ADRDE test jumpers were Wg Cdr Rahul Jha, Chief Test Jumper, MWO R J Singh, VM (G), and MWO Vivek Tiwari.

The jump proved the efficacy and tactical employability of the MCPS parachute in extremely high-altitude terrains. And all subsystems, including indigenous oxygen and para computers, functioned at optimal efficiency. This, in addition to previous jumps from 32,000 feet AMSL, has demonstrated that the indigenous MCPS parachute is capable of not only deployment at altitudes of 30,000 feet AMSL but also of landing at extremely high altitude drop zones.



GROUND INTEGRATION TRIAL OF UNIVERSAL FIAM

Aerial Delivery Research and Development Establishment (ADRDE), Agra, is in the progress for development of Universal Flight-in-Air Material (FIAM) for Light Weight Torpedoes (LWTs). The FIAM is intended to accurately and safely control the trajectory/altitude of the torpedo during launch from aircraft and decelerate it to the desired velocity at splash down to ensure smooth water entry and detachment of parachute. The project aim is to develop advanced technology based single UFIAM to replace all existing FIAM system for light-weight torpedo released from the rotatory wing aircraft (Seaking 42 B and KV 28) to meet the operational requirements as projected in the PSQR. Currently, all subsystems of UFIAM have been successfully developed and qualified.

The ground integration trial of UFIAM was carried out at NFTS, INS Hansa, Goa, during 20-24 July 2026. The objective of ground integration trial was to integrate UFIAM system with D&P versions of ALWT, A224S MoD 0 and A224S MoD 3 torpedoes. The integration of release wires, arming wires of torpedoes with simulated locations was also done. Suspension band assembly holding torpedoes

securely with EMRU and safe release and fly-off of suspension band assembly using pit drop was also demonstrated. High speed video recording was done by DRDL, Hyderabad, to analyse suspension band fly-off velocity vector and angular pitch rate. Ground integration trial was successful in demonstration of subsystems to users and paved the way for further user trials.



HANDING OVER

HANDING OVER OF TECHNOLOGY OF LM2500 GAS TURBINE INFRARED SUPPRESSION SYSTEM

Infrared suppression is a key component in making a naval platform stealthier. As part of Naval Stealth Technologies, Naval Science & Technological Laboratory (NSTL), Visakhapatnam designed the Gas Turbine Infrared Signature Suppression (GT IRSS) System to reduce the infrared radiation associated with exhaust gas and ducts of a naval platform fitted with the LM2500 Gas Turbine.



The IRSS System is a patented technology of the NSTL. The

laboratory holds patent No. 238202 for passive IRSS and

patent No. 414420 for active IRSS. Technology for “Fabrication, Installation, and Commissioning of the LM2500 Gas Turbine Infrared Suppression System for Naval Vessel” was handed over to BHEL on 20 July 2026 by

DG (NS&M) in the presence of Director (NSTL) and DG (WDB).

The ToT aims to develop industrial capability for the manufacture and installation of the GT IRSS System for the LM2500 gas turbine, based on

NSTL’s design, for integration into future Indian Navy platforms.

The ToT will also make the base for export of IRSS systems to friendly nations in the near future as per Ministry of Defence guidelines.

INAUGURATION OF BATTERY GALLERY AT NSTL

Dr RV Hara Prasad, DS & DG (NS&M), inaugurated ‘URJAAYAN’ (Battery Gallery) at the Centre for Advanced Energy Systems on 30 July 2026, at Naval Science & Technological Laboratory (NSTL), Visakhapatnam. Dr Abraham Varughese, OS & Director, NSTL, and Technology Director, Dr (Smt) TVSL Satyavani, Sc ‘G’, accompanied DG (NS&M). ‘URJAAYAN’ represents the journey of energy. Various battery technologies, viz., Zn-



AgO secondary and primary versions, Al-AgO, Mg-AgCl and Mg-CuCl seawater batteries, Li-thermal reserve primary, Li-ion batteries and models of all

batteries developed to date for naval applications, were displayed for better understanding of technologies, highlighting the future trends in battery technologies.

RM APPROVES TOT OF DRDO-DEVELOPED MISSILE SYSTEMS TO INDIAN DEFENCE INDUSTRY

Hon’ble Raksha Mantri Shri Rajnath Singh approved the transfer of DRDO-developed technologies for all conventional missile systems to the Indian defence industry, marking a significant step towards achieving the vision of Aatmanirbharta in defence and enabling production within the country. This transfer of technology marks an important milestone in promoting greater participation of the domestic industries in the defence ecosystem by enabling them to undertake indigenous production,

as per applicable qualifications, certifications and regulatory requirements.

The provision will enable the successful transition of missile system development to industrial production, reflecting the continued efforts of DRDO to leverage the capabilities of the Indian industry for the development and manufacture of advanced defence systems. The objective is to enhance domestic manufacturing capabilities, strengthen the defence industrial base and create opportunities for

the participation of Indian MSMEs and other technology partners in the supply chain.

The initiative aims to enhance operational capability, reduce import dependence and increase domestic value addition, while supporting the growth of India's defence manufacturing sector. DRDO remains committed to working closely with Indian industry to facilitate the transfer and absorption of advanced defence technologies and to further strengthen the country's indigenous defence capabilities.

INDEPENDENCE DAY CELEBRATION

CAIR, Bengaluru

The Centre for Artificial Intelligence & Robotics (CAIR), Bengaluru, celebrated the 80th Independence Day of India on 15 August 2026 with lots of enthusiasm. The programme began with the ceremonial hoisting of the national flag by Dr Rituraj Kumar, OS & Director, CAIR, followed by the national anthem. Dr Rituraj Kumar addressed the gathering and distributed merit awards to the wards of all officers, staff, and contract employees.



CASDIC, Bengaluru

The 80th Independence Day was celebrated with patriotic fervour at Combat Aircraft Systems Development & Integration Centre (CASDIC), Bengaluru, on 15 August 2026. Shri Rajeev Marathe, OS & Centre Head, hoisted the national flag followed by the national song and national anthem. Small flags were distributed to the gathering. All employees of CASDIC attended the ceremony with full enthusiasm. The Centre Head delivered an inspiring address to the gathering paying homage to all

freedom fighters. He highlighted the contributions of CASDIC to the Indian Air Force. He further emphasized on DRDO's role in achieving self-reliance in critical defence systems.



CFEES, Delhi, SDC, Pilkhuwa, BVR, Borkhedi

The 80th Independence Day was celebrated with great enthusiasm and patriotic fervor at the Centre for Fire, Explosive & Environment Safety (CFEES), Delhi, and its centers at SDC, Pilkhuwa, and Borkhedi, Nagpur. The celebrations commenced at SDC, Pilkhuwa, where Shri Arvind Kumar, Director, CFEES, along with AD, SDC Dr MK Kalra, sang the national song, followed by the hoisting of the national flag. Thereafter, the Director proceeded to CFEES and hoisted the national flag in the presence of officers, staff members, and their families.

For the first time the ceremony began with the soulful rendition of "Vande Mataram," followed by the flag hoisting and the singing of the National Anthem. DSC personnel and security guards paid a smart salute to the National Flag along with all those present, adding dignity and solemnity to the

occasion. Similar Independence Day celebrations were held with equal enthusiasm at the other CFEES centers, including Borkhedi, Nagpur, where officers and staff participated wholeheartedly in the patriotic celebration.

The event witnessed enthusiastic participation from all attendees, creating a strong sense of unity and national pride. Addressing the gathering, the Director congratulated all officers, staff members, and their families on the occasion of Independence Day. He outlined the future path and vision for CFEES, highlighting innovation, scientific excellence, and national service as essential factors for advancing both the organisation and the nation.



DMSRDE, Kanpur

Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, celebrated 80th Independence Day amidst great enthusiasm and patriotic fervour on 15 August 2026. The event commenced with hoisting of the national flag by Dr Kingsuk Mukhopadhyay, OS & Director, DMSRDE followed by the rendition of national song and national



anthem in the presence of senior officers, staff, DSC Platoon staff, and family members. To mark the occasion, the Director handed over the sweet packets to DGR Security and DSC Platoon. The Director briefed about the progress of the laboratory during the preceding year and the achievements in various work areas and projects. The event was coordinated by Mohd. Imamuddin, Sc 'F' and Dr Sunil Kumar, Sc 'D'.



DRL, Tezpur

The Defence Research Laboratory (DRL), Tezpur, celebrated 80th Independence Day on 15 August 2026 with enthusiasm and national pride. The celebration began with the hoisting of the national flag by Dr Rajesh K Garg, Sc 'G' & Centre Head, followed by the solemn rendition of the national anthem. In his address, he extended heartfelt Independence Day greetings to all the employees and their families and inspired

the scientific fraternity to work with renewed commitment to building a strong nation. He also highlighted the significance of the day and paid tribute to the freedom fighters who laid down their lives for the nation's independence. It was also celebrated with equal enthusiasm at R&D centres, Salari and Tawang in Arunachal Pradesh. The employees and DSC personnel posted their selfies with the National Flag on www.harghartiranga.com, adhering to the directives given by the Govt. of India.



IRDE, Dehradun

The Instruments Research & Development Establishments (IRDE), Dehradun, celebrated 80th Independence Day on 15 August 2026 amidst great enthusiasm and patriotic fervour. The event commenced with hoisting the national flag followed by national song and national anthem. Dr Ajay Kumar, OS & Director, IRDE, addressed the gathering. He briefed about the progress of the laboratory during the year and the achievements in various work areas and projects. He outlined the various events conducted, welfare measures undertaken and visits of dignitaries at IRDE during the year. He also

accentuated the dedication and whole hearted contribution of IRDE employees in transforming IRDE into a hub of electro-optics.

Dr Ajay Kumar, Dr Sudhir Khare, Sc 'H' and Dr Manvendra Singh, Sc 'H' along with the editorial team released the latest issue of IRDE Newsletter 'DRISHTI'. DRISHTI is a six-monthly publication of IRDE which comprises of all the news related to IRDE's new developed products, trials, important events, visits, retirements, etc.



LRDE, Bengaluru

Electronics & Radar Development Establishment (LRDE), Bengaluru, celebrated the 80th Independence Day with great enthusiasm and patriotic fervour on 15 August 2026. The theme for this year's Independence Day celebration is to honour "150 years of Vande Mataram" and to commemorate "Yuva Shakti for Viksit Bharat @ 2047".

To honour "150 years of Vande Mataram", the national song that inspired millions during the freedom struggle, LRDE commenced this year's Independence Day celebrations with the singing of "Vande



Mataram". There after, Shri Sheik Althaf M, OS & Director, LRDE, hoisted the national flag, followed by the rendering of the national anthem. In his address, Director extended heartfelt Independence Day greetings to all the employees and their family members and also emphasised the importance of 'Vande Mataram' and the contribution of young India in building a Viksit Bharat by 2047. Senior scientists, officers, staff and DSC Platoon staff actively participated in the celebration, making the event memorable.



MTRDC, Bengaluru

On 15 August 2026, Microwave Tube Research & Development Centre (MTRDC), Bengaluru, observed a dynamic and vibrant Independence Day celebration. Dr SK Datta, OS & Centre Head, MTRDC hoisted the national flag and also addressed the gathering. Kid's drawing and colouring event was organised on 13 August 2026. Tiny tots participated in fancy dress and speech events as well on the day as part of the celebration.

NMRL, Ambernath

The Naval Materials Research Laboratory (NMRL), Ambernath, celebrated the 80th Independence Day on 15 August 2026, with patriotic enthusiasm. The event commenced with playing the national song (Vande Mataram), followed by the unfurling of the national flag by Dr Suman Roy Chaudhury, OS & Director, NMRL, and the singing of the national anthem by all staff, officers, DSC troops, and families.

As a prelude to the main celebration, singing, poem recitation, and drawing competitions themed "My Great India" and "My Future India" were organized for employees' children. Forty children participated and showcased their artistic talent with remarkable enthusiasm.

The Director, NMRL felicitated the competition winners and distributed prizes to all participants. The event concluded with a strong sense of communal harmony and patriotic spirit.



NPOL, Kochi

The Naval Physical & Oceanographic Laboratory (NPOL), Kochi, celebrated the "Har Ghar Tiranga" campaign on 13-15 August 2026 as part

of the nationwide initiative to encourage citizens to hoist the national flag at their residential areas and workplaces. 'Har Ghar Tiranga Walkathon', a walk by NPOL employees, was conducted on 14 August 2026 from the NPOL technical campus to the NGO Quarters Circle to promote the campaign and raise awareness about the 'Har Ghar Tiranga' programme.

On 14 August 2026, flags were distributed to various division representatives and employees for hoisting the flag at their respective technical and residential buildings. On 15 August 2026, Dr Duvvuri Seshagiri, DS & Director, NPOL, hoisted the national flag at the NPOL technical complex and addressed the gathering. The event was followed by felicitation of DSC personnel.



NSTL, Visakhapatnam

The Naval Science & Technological Laboratory (NSTL), Visakhapatnam, celebrated 80th Independence Day on 15 August 2026. The celebration commenced with the unfurling of the national flag and the collective singing of the national anthem by Dr Abraham Varughese, OS & Director NSTL, and all officers, Indian



Navy officers, service officers, DSC Jawans, staff, ORs, school children, and family members. Speaking on the occasion, Director, NSTL paid homage to the freedom fighters, who sacrificed their lives for India's freedom. He illustrated how India has been making remarkable strides in science, technology, defense, space, and innovation, and in particular how DRDO is playing a pivotal and key role in this journey. DRDO is actively transferring technology to Indian private and public sector industries,

helping to reduce dependency on imports. He opined that every breakthrough in research must be a step toward strengthening our national security and ensuring peace for our future generations. This year's theme, 'Naya Bharat,' reflects India's mission to become a prosperous, secure, and self-reliant nation. The students of Ramanath Secondary School sang patriotic songs. Members of the Works Committee, the NSTL Civil Employees Union, officers, staff, and family members participated with enthusiasm and patriotic zeal.



TRIBUTE TO DR APJ ABDUL KALAM ON HIS 11TH DEATH ANNIVERSARY

MTRDC, Bengaluru

The 11th death anniversary of the former President of India and the revered "Missile Man of India," Dr APJ Abdul Kalam, was solemnly observed at the Microwave Tube Research & Development Centre (MTRDC), Bengaluru, on 27 July 2026. The occasion was marked to commemorate the life, vision, and invaluable contributions of Dr Kalam to India's defence research and technological advancement.



VRDE, Ahilyanagar

A tribute program was organized at Vehicles Research and Development Establishment (VRDE), Ahilyanagar, on 27 July 2026 to commemorate the 11th death anniversary of Bharat Ratna Dr APJ Abdul Kalam, former President of India, eminent scientist, teacher, and one of the most respected figures associated with India's indigenous defence and space programs.

The program commenced with floral tributes to Dr APJ Abdul Kalam by Director VRDE, followed by floral tributes by all employees of VRDE as a mark of respect and remembrance. Thereafter, Shri GRM Rao, OS & Director VRDE, delivered a talk on the life and contributions of Dr Kalam, highlighting his remarkable achievements, pioneering contributions to India's defence

and space program, leadership in indigenous missile development, and his vision for technologically advanced and self-reliant India.

A film depicting the life, achievements, and memoirs of Dr APJ Abdul Kalam was also screened during the program. The film provided insight into his inspirational life journey and his professional and selfless contributions to the nation. This event provided an opportunity for all employees to reflect upon values exemplified by Dr APJ Abdul Kalam, as lighthouse of wisdom.



SCREENING COMMITTEE MEETING OF JCM-III LEVEL (DRDO) COUNCIL AT DMSRDE

Screening Committee Meeting of Joint Consultative Machinery (JCM)-III Level (DRDO) Council was held on 3 August 2026 at Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, under the chairmanship of Dr Mayank Dwivedi, OS & DG (HR). The official side of JCM-III was represented by DMS, DHRV, Director, CEPTAM, Additional Director (Estates) DCW&E and Under Secretary (R&D). The meeting was attended by Dr Kingsuk Mukhopadhyay, OS & Director, DMSRDE, as the special guest. From the staff side, Shri RN Nagaraj, Leader Staff Side, Shri K Srikanth Goud, Secretary



Staff Side, and six other members from different DRDO laboratories participated in the meeting. In his opening remarks, the Chairman stated that the JCM-III Council

will continue to play its prominent role in resolving various issues related to employee welfare. He assured unstinting support to staff side from the management side.

CAG-ACADEMIA-DRDO INTERACTION MEET AT DMRL

Defence Metallurgical Research Laboratory (DMRL), Hyderabad, organized a one-day CAG-Academia-DRDO Interaction Meet on 21 August 2026. The inaugural session commenced with a welcome address by Dr K Gopinath, OS & OITC, DMRL, who underscored the strategic role of robust DRDO-academia partnerships in accelerating indigenous defence research and technology development. Delivering the inaugural address, Dr N Ranjana, OS & Director, DFTM, highlighted the need for seamless synergy, transparency, and mutual alignment among DRDO, academic institutions, and audit bodies to maximize the

impact of GIA-funded projects.

Mr Avinash Chavan, Director of Audit, then delivered a presentation that set the stage for open dialogue, bridging audit perspectives with institutional R&D priorities.

Perspective from academia was presented by Prof. Prem Pal, Dean

(Academics), IIT-Hyderabad, and technical and administrative insights were shared by Dr SP Mishra, Sc 'G' & Associate Director, ER&IPR, alongside Smt Neena Satti, Sc 'F', DFTM.

The event was managed by Dr Sarabjit Singh, Sc 'F' and Dr Ashish Pathak, Sc 'E'.



COURSE ON NON-DESTRUCTIVE TESTING OF SOLID ROCKET MOTORS AT ACEM

The Advanced Centre for Energetic Materials (ACEM), Nasik, conducted a three-day course on “Non-Destructive Testing (NDT) of Solid Rocket Motors, during 22-24 July 2026. The objective of the course was to cover advancements and new emerging technologies related to NDT of solid rocket motors. The course was inaugurated by Shri GV Siva Rao, OS, DRDL, Hyderabad, in the presence of Dr AP Dash, OS & Director, HEMRL & GM, ACEM, who joined through VC. The course started with the keynote address delivered by Shri Rao, with a focus on the application of futuristic technologies for defect detection in solid rocket motors and allied components. A total of 28 participants from more than nine DRDO laboratories and SSQAG, including ASL, DRDL, HEMRL, SFC, ARDE, TBRL, CFEES,



DMRL, and ACEM, participated in the course.

Eminent speakers from ASL, HEMRL, TBRL, ISRO-SHAR, BARC and industry delivered the talk covering topics related to NDT and emerging technologies. The lectures emphasised practical case studies, acceptance of SRMs

and the effect of various defects on motor performance. Topics such as acousto-ultrasonic, microfocus NDT, terahertz technology, muon scattering and radiation safety were also covered. The course was coordinated by Shri RS Rana, Sc 'F' Course Director, and Shri Umesh Mali, TO 'C' Dy. Course Director.

TECHNO-MANAGERIAL TRAINING BY CEPTAM AT IIM-UDAIPUR

Centre for Personnel Talent Management (CEPTAM), Delhi, organized a five-day training programme on “Project Lifecycle Management” for 25 DRTC officers at the Indian Institute of Management (IIM), Udaipur, during 17-21 August 2026. The event commenced with an inaugural function attended by Shri Ashutosh Bhatnagar, Sc 'F' & Head, Training, CEPTAM, along with dignitaries and senior



representatives from IIM-Udaipur. The programme “Project Lifecycle Management” focused on key aspects including planning, execution, monitoring, risk management and project closure.

The training provided participants with contemporary insights and practical perspectives to enhance their project management capabilities and professional effectiveness.



COURSE ON CHALLENGES IN MANAGING S&T INFORMATION AT DESIDOC

The Defence Scientific Information and Documentation Centre (DESIDOC), Delhi, organised a three-day course on “Challenges in Managing S&T Information: Latest Tools & Techniques” during 1-3 September 2026. Ms Kiran Chauhan, Director DESIDOC, inaugurated the course. The course featured ten technical sessions on key themes, including managing S&T information—advances and challenges; with special reference to the DESIDOC initiatives; PM-ONOS: access and user services; demonstrations of DESIDOC-subscribed standards for DRDO laboratories; citation analysis through Web of Science; and an informative session on the



Janes Defence database.

Prof. M Madhusudan, University of Delhi, gave an informative talk on various tools of AI which can be used in libraries to increase their efficiency and productivity. Dr Parveen Babbar, Deputy Librarian, JNU, Delhi, gave

a lecture on 'Strategy in E-Resource Licensing and Subscription'. The sessions were arranged to provide succinct information on the digital resources in R&D institutions, challenges and management. The course was attended by twenty-five participants.

TECHNICAL TALK ON HIGH-TEMPERATURE CREEP AND ADVANCED STRUCTURAL MATERIALS AT DMRL

The Defence Metallurgical Research Laboratory (DMRL), Hyderabad, organised a technical talk on “Experimental Approaches to High-Temperature Creep and Their Extension to Advanced Structural Materials”, delivered by Dr Shobhit Pratap Singh, Assistant Professor, IIT Bhilai. The programme commenced with a welcome address by Shri Manish Patel, Sc’F’. A key highlight was the development of a bending creep testing methodology integrated with Digital Image Correlation (DIC) for high-resolution strain measurement. The methodology was demonstrated on engineering alloys such as IN738LC and



offers the potential for high-throughput evaluation of creep behaviour along with detailed spatial mapping of deformation. The approach provides several advantages over conventional

uniaxial creep testing techniques.

The talk explored the potential extension of these methodologies to advanced high-temperature structural materials, including Ultra-High Temperature Ceramics.

QUARTERLY INTERACTION MEETING AT DEBEL

The Quarterly Interaction Meeting (QIM) for the QE June 2026: CBRN Equipment was held on 6 August 2026 at Defence Bioengineering and Electromedical Laboratory (DEBEL), Bengaluru, with the participation from representatives of DEBEL, DRDE, INMAS, DLJ, VRDE, R&D(E) and representatives from the Tri-Services of the Indian Armed Forces, CE-CBRN under the Chairmanship of Maj. Gen. Rajesh Bhat, SM, DGCE, E-in-C's Branch and Co-Chairmanship of Dr DT Selvam, Director (PM), O/o DG (SSS). Dr R Indushekar, Director, DEBEL, Bengaluru, gave a brief presentation on the CBRN



equipment developed by DEBEL. The QIM was convened to review the status of the CBRN equipment in use with the Services/Under Development. The meeting served as a platform to review the

progress of ongoing projects and future requirements and discuss technical and operational issues and strengthen coordination among all stakeholders involved in the programme.

WORKSHOP ON NAVAL STEALTH: BEYOND 2030 AT NSTL

A two-day brainstorming workshop on Naval Stealth: Beyond 2030 was organized by Naval Science & Technological Laboratory (NSTL), Visakhapatnam, during 20-21 July 2026, bringing together key stakeholders from DRDO, the Indian Navy, Defence Shipyards, and industry to deliberate on future directions in naval stealth technologies. The inaugural session was presided over by Dr RV Hara Prasad, DS & DG (NS&M), in the presence of R. Adm. Sujit Baxi, DG (WDB), and Director, NSTL.

The inaugural session also featured a keynote address by Dr V Bhujanga Rao, former DG (NS&M) and presently Chairman of the KIMS Foundation & Research Centre, Hyderabad, who shared his perspectives on emerging



trends and future challenges in naval stealth.

The workshop was attended by nearly 125 delegates representing DRDO laboratories, the Indian Navy, defense shipyards, and industry. Technical sessions covered a broad spectrum of

topics, including Radar Cross Section, Infrared Signature Management, Acoustic Stealth, ELFE and Magnetic Signatures, Integrated Multi-Spectral Stealth Concepts, and Future Naval Stealth Technologies Beyond 2030.



COURSE ON ADVANCES IN SYNTHETIC APERTURE RADAR

Electronics and Radar Development Establishment (LRDE), Bengaluru, conducted a course on “Advances in Synthetic Aperture Radar” during 17-20 August 2026. The objective of the course was to enhance the understanding of DRDS and DRTC officers in advanced techniques of Airborne and Spaceborne Synthetic Aperture Radar (SAR) with Application. The course was inaugurated by Shri Sheik Althaf M, OS & Director and Shri Abid Hussain VA, Sc ‘H’ & Associate Director. The course broadly encompassed the topics such as SAR imaging principles and



algorithms, SAR image processing and exploitation, FOPEN, Scan SAR, video SAR, Interferometry & tomography, passive, bistatic & multistate SAR, and Cognitive SAR. A total of 25 participants

from LRDE, RCI and DLJ, CAIR, ISSA, CABS, CASDIC attended the course. Experienced faculty members from, IIRS-ISRO, M/s Piersight, M/s ANSYS, and LRDE Scientists delivered the lectures.

PATENTS GRANTED

DEBEL, Bengaluru

A Patent No. 59840 for “A 3 DOF Adaoptive Bionic Hand with Control-Assist Mode Functionality” has been granted by Indian Patent Office jointly to DRDO and MS Ramaiah University of Applied Sciences. The inventors are Shri SP Singh, Shri KMohanavelu, Shri T MKotresh from Defence Bioengineering and Electromedical Laboratory (DEBEL), Bengaluru, Dr UK Singh from the O/o DG(SSS) and Shri KG Rangaswamy, Shri BR Karthikeyan, Shri JD Prasad, Shri YS Sannaveerappa, Shri PN Mallya, Shri VN Kallahalli, Shri N Shashikumar, Shri HB Hiremath, Shri PLS Reddy, and Shri H Mani from MS Ramaiah University of Applied Sciences, Bangalore-560054. The patent is the outcome of an LSBD project.

NPOL, Kochi

A Patent No. 590334 for "Portable Insitu Pressure Testing System for Spliced Submarine Cable Joints" has been granted by Indian Patent Office to Shri Lalu PK, Shri Roni Francis, Shri Vinod Pand Sabu Sebastian, of Naval Physical & Oceanographic Laboratory (NPOL), Kochi.

A Patent No. 590851 for “An Automatic Trend Normaliser-based Active Sonar Echo Detector” has been granted by Indian Patent Office to Shri Vijayan Pillai S, Shri Anoop Rand Ms Deepa B, of Naval Physical & Oceanographic Laboratory (NPOL), Kochi.

NSTL, Visakhapatnam

A Patent No: 592974 for "System for Suppressing Thermal and Acoustics Signatures of Gas Turbine Exhaust" has been granted by Indian Patent Office to Shri Pakki Venkata Satya Ganesh Kumar, Shri Anavilla Venkata Satya Narayana Murthy and Shri Khagesh Kumar Choudhary inventors from Naval Science & Technological Laboratory (NSTL), Visakhapatnam.

COURSE ON QUALITY, RELIABILITY AND SAFETY AT MTRDC

Microwave Tube Research & Development Centre (MTRDC), Bengaluru, organised a course on 'Quality, Reliability and Safety' during 3-5 August 2026. The course covered a wide variety of topics, including the introduction to quality, reliability, and safety; safety by design; integrating reliability and quality into aerospace products; safety analysis; independent verification and validation of airborne system software; reliability and safety engineering in mission-critical systems; exponential distribution;

mean time between failures (MTBF) and failure rates; software reliability; and an introduction to electronics reliability prediction. Dr Khilawan Chaudhary, Sc 'F', was the Course Director, and Dr Venkat, Sc 'F', was the Deputy Course Director. Shri M Sheik Altaf, OS & Director LRDE & MTRDC, graced the occasion as the Chief Guest and the Keynote Speaker of the Inaugural session. On the onset, Dr SK Datta, OS & Centre Head MTRDC welcomed the gathering. The topic of the keynote address was 'Quality,

Reliability & Safety of Radar Systems' by the distinguished Chief Guest. The course included presentations from Dr Siddappaji, Sc 'F' (ADE), Shri Raghvendra Shenoy, Sc 'F' (CABS), Shri Amit Kumar, Dir.(QRS), DG (ECS) and Dr Antony, Sc 'F' (ADA). Lt Col (Retd.) Navneet Sood, BAE, BEL, was also one among the eminent speakers. The valedictory session was chaired by Dr S Subramanian, Sc 'G' from MTRDC, and Shri Rajagopal Suchith, Sc 'H', LRDE, graced the occasion as Chief Guest of the event.



MTRDC PARTICIPATION IN SES 2026

Microwave Tube Research & Development Centre (MTRDC), Bengaluru, participated in the 15th Strategic Electronic Summit 2026 (SES 2026) held during 23-24 July 2026 at the Bangalore International Exhibition Centre (BIEC), Bengaluru. The summit brought together stakeholders from the defence, aerospace, electronics, drones and security sectors, with a focus on emerging technologies and advanced electronic systems for strategic applications.





During the event, MTRDC showcased two of its indigenously developed products, namely Ku-Band Travelling Wave Tube Amplifier (TWTA) for aerospace applications and X-Band Microwave Power Module (MPM) for BrahMos. The exhibits highlighted the Centre's

work in the development of high-power microwave devices and associated technologies for advanced defence and aerospace systems.

The participation provided an opportunity to showcase MTRDC's technological capabilities and interact with

industry, research organisations and other stakeholders working in the strategic electronics domain. The summit also facilitated discussions on emerging requirements, technological developments and potential avenues for collaboration in advanced electronic systems.

SPECIALIZED TRAINING PROGRAMME FOR SENIOR OFFICERS OF ADMINISTRATIVE CADRE OF DRDO

The Directorate of Human Resource & Vigilance (DHR&V), DRDO HQrs, organized one week of residential "Specialized Training Programme for Senior Officers of Administrative Cadre of DRDO" at COD, Hyderabad, during 3-7 August 2026. A total of 30 Joint Director (Admin), Chief Administrative Officer (CAO), and Senior Administrative Officer-I (SAO-I) from various DRDO laboratories attended the program. The objective of the training was 'To Enhance Administrative and Leadership Skills' of Senior Officers of the Administrative Cadre of DRDO.

The topics covered in the training were the emerging role of administrative officers in achieving organizational excellence at DRDO, leadership and decision-making for administrative excellence,



teamwork, collaboration and relationship management, communication effectiveness and professional interactions, conflict management and workplace harmony, motivation, employee engagement, accountability and performance orientation, workplace well-being, resource management and administrative efficiency, time management, learning from the Government of

India best practices, etc.

Dr Mehbuba Begam, Head (Training), DHR&V, DRDO HQrs felicitated the valedictory session and interacted with the participants to obtain their feedback on the program. The participants shared their experiences and provided valuable suggestions for further improving and enriching such training programmes in the future.

COURSE ON TECHNOLOGIES FOR INTEGRATED POWER PACK AND RUNNING GEAR SYSTEMS AT VRDE

The Vehicles Research and Development Establishment (VRDE), Ahilyanagar, organized a course on "Technologies

for Integrated Power Pack and Running Gear Systems" during 3-7 August 2026. The initiative reflected VRDE's

commitment to strengthening professional competence in the field of technologies for combat platforms. 12 participants from

various labs like CVRDE, R&DE (E), PXE, DRDL, and ARDE, along with 11 participants from VRDE, attended the course. The course was inaugurated by Chief Guest Dr Shantipal Ohol, Associate Professor & Head of Robotics Division, CoEP Tech. University, Pune, along with Shri GRM Rao, OS & Director, VRDE, and senior scientists from the laboratory.

The course covered various topics, including an overview of armored fighting vehicles, integrated power packs, running gear, engines and cooling systems, automatic transmissions, mobile hydraulics, composites in combat vehicles, design/simulation/analysis software, and the latest rubber technologies for application



in fighting vehicle design. Expert speakers from VRDE and CVRDE provided in-depth knowledge during their respective lectures.

Lectures were also arranged by industries and IRMRI. A visit to the Tank Museum and Auto Wing of ACC&S was also organized.

COURSE COMPOUND SEMICONDUCTORS FOR RF, POWER ELECTRONIC AND PHOTONIC APPLICATIONS AT SSPL

A Continuing Education Programme (CEP) on Compound Semiconductors for RF, Power Electronic and Photonic Applications was conducted at the Solid-State Physics Laboratory (SSPL), Delhi, 3-7 August 2026. The inaugural session was graced by Dr Anesh Kumar Sharma, OS & Director SSPL, Dr DS Rawal, OS & Associate Director and keynote speaker Prof. Rajendra Singh, Project Director, Quantum Materials and Devices (QMD) T-Hub, IIT Delhi. In his keynote address, Prof. Rajendra Singh highlighted the importance of compound semiconductors and their role in realizing the objectives of the National Quantum Mission.



Eminent speakers from IIT-Delhi, IIT-Bombay, IIT-Madras, IIT-Bhubaneswar and IIT-Roorkee, faculty members from the University of Delhi, as well as experts from industry and DRDO, delivered the talks in the course. A dedicated session on well-being

and stress management was also included as part of the programme. Various aspects of compound semiconductor technology were discussed, including material growth, device physics, fabrication techniques, device simulation, characterisation and application



areas relevant to RF, power electronics and photonics. As part of the programme, laboratory visits were arranged at SSPL to provide participants with first-hand exposure to the cleanroom facilities and capabilities available at the laboratory. A total of 47 participants from various DRDO laboratories

attended the programme. To assess the participants' understanding of the topics covered during the CEP, a quiz was conducted as part of the programme.

The course was concluded with a valedictory session where Director SSPL presented the course certificates to the participants. The

Course Director, Robert Laishram, Sc 'F' invited feedback from the participants and interacted with them regarding their experiences and learnings from the course. The session concluded with a formal vote of thanks delivered by the Deputy Course Coordinator, Shri Mohan Lal, Sc 'E'.

COURSE ON OPTOELECTRONIC DEVICES: ADVANCEMENTS IN SEMICONDUCTOR LASERS

The Solid-State Physics Laboratory (SSPL), Delhi, organized a five-day course on 'Optoelectronic Devices: Advancements in Semiconductor Lasers' during 17-21 August, 2026. The inaugural ceremony was graced by Dr Anesh Kumar Sharma, OS & Director SSPL; Dr Vikram Kumar, former Director of SSPL, as Chief Guest; Dr RK Sharma, former Director of SSPL, as Keynote Speaker; and Dr DS Rawal, OS & Associate Director. Eminent speakers from IIT, CSIR, DRDO, DU, the Indian Army, and industry delivered the talks on the

basics of optoelectronic devices, their military and civil applications, fabrication, packaging, and testing, especially semiconductor lasers. A total of fifty participants from SSPL and various DRDO laboratories attended the course. The lectures also included topics such as material design & growth, material & device characterization, recent advancements in GaN, GaAs, and InP lasers, fiber coupling of lasers for DEWs, and various underwater applications of blue-green lasers. In addition, the lectures were followed by laser diode fabrication laboratory

visits and demonstrations of high-power GaN laser diode operation to both the participants and the speakers.

The course was concluded with a valedictory function graced by Dr. Seema Vinayak, former Director of SSPL, as Guest of Honor, and Dr. Al Shah, OS & Associate Director. The course participation certificates and quiz prizes were awarded to the participants, followed by a course summary & vote of thanks by Course Director Mr Kamal Lohani, Sc 'F' & Deputy Course Coordinators Mr Abhishek Sharma and Mr Subodh Chandra.



MENTOR-MENTEE PROGRAM AT COEP, PUNE

The Vehicles Research & Development Establishment (VRDE), Ahilyanagar, has signed an MoU with COEP (Technological University), Pune, for cooperation in the domain of research and development of various defence technologies. Under this MoU, Shri GRM Rao, OS and Director VRDE, also introduced an initiative for the inclusion of a mentor-mentee programme, in addition to the proposed research area for collaboration.

To initiate the collaboration, a visit to COEP TU was organised, serving as a crucial step in connecting theoretical academic



expertise with significant defence research challenges. The visit was concluded in two sessions. In the morning session, key domain experts provided comprehensive overviews of their respective department specialisations, and in the second session, scientists

visited various labs and observed testing rigs, simulation software and prototyping facilities. The success of this inaugural mentor-mentee interaction provides a robust framework for upcoming collaborative endeavours and long-term knowledge exchange.

INTERACTIVE SESSION ON POSH AT NMRL

The Naval Materials Research Laboratory (NMRL), Ambernath, organized an interactive session for awareness and sensitization regarding the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) POSH-Act, 2013, on 21 August, 2026. The initiative reflected NMRL's continuous commitment to fostering a safe, respectful, and equitable work environment for all employees. The session opened with an address by the Presiding Officer (IC), Ms Debyani Chattaraj, Sc 'F', who emphasized the vital role of regular sensitization drives. Dr Suman Roy Choudhury, OS & Director, NMRL, highlighted that a transparent, harassment-free workplace is essential for driving professional excellence and



scientific innovation and urged all employees to uphold high ethical standards to build an inclusive organizational culture.

The detailed presentation was delivered by Ms Sarika Prakash, advocate and core member of the Sheradil Foundation. Drawing from her extensive legal expertise and social advocacy experience,

Ms Prakash shared a structured overview of workplace safety, scope and definitions under the POSH Act, classification of physical, verbal, and non-verbal misconduct, redressal procedure, and proactive preventive measures. Around 200 employees, including contractual personnel, attended the session.



COURSE ON HOT AND COLD ROLLING OF MATERIALS

Defence Metallurgical Research Laboratory (DMRL), Hyderabad, organized a course on “Hot and Cold Rolling of Materials” during 26-28 August 2026. The programme aimed to provide an in-depth understanding of the fundamental theories of hot and cold rolling, mill configurations, and structure property correlations across key materials, including aluminium alloys, steels, and titanium alloys. It also covered advanced characterisation techniques such as EBSD, XRM, and TEM, along with ultrasonic methods for rolling defect evaluation, achieving a balanced focus on both the mechanical and metallurgical dimensions of rolling.

The inaugural session commenced with a welcome address by Dr SN Sahu, Sc ‘F’, followed by an inaugural address and course overview by Dr Amit Kumar, Sc ‘F’ & Course



Director. Shri B Ramakrishna, OS & Associate Director, and Dr Partha Ghosal, Sc ‘G’ and Associate Director, addressed the gathering, urging scientists to generate innovative ideas in rolling technology and rapidly build domain expertise to address emerging strategic challenges. A keynote address titled “Some Thoughts on Aluminium” was

delivered by Dr RK Satpathy, Sc ‘G’ (Retd.), drawing upon his extensive contributions to the field.

The course featured expert lectures by speakers from premier academic institutions, R&D laboratories, and industry, including VSSC, BAPL, NIT Warangal, BrahMos Aerospace, and DMRL.

LECTURE AT SURVEILLANCE, C4I2 AND ELECTRO-OPTICS SEMINAR AT NEW DELHI

Shri Ram Saran, Sc ‘F’, Instruments Research & Development Establishment (IRDE), Dehradun, delivered a lecture on 18 August 2026 in a seminar titled ‘Surveillance, C4I2 and Electro-Optics’. The seminar was organised by Centre for Aerospace Power & Strategic Studies (CAPSS) and Indian Military Review (IMR). The seminar was inaugurated by Air Marshal Ashutosh Dixit, PVSM, AVSM, VM & VSM and Vice Chief of

Air Staff. The seminar was focused on three themes, ‘Surveillance Across Domains’, ‘C4I2 Systems & Net Centric Operations’ and ‘Electro-Optics for Target Acquisitions & Engagement’. The topic of his lecture was ‘Electro-Optical Tracking Systems (EOTS) – Perspective of DEW Systems and Missile Guidance Application’. Shri Ram Saran was also a session panellist for the session on ‘Electro-Optics for Target Acquisitions & Engagement’.





APPOINTMENT



Eminent materials scientist and defence researcher, Dr Gopinath K, has officially taken charge as the Director of the Defence Metallurgical Research Laboratory (DMRL), Hyderabad, effective September 21, 2026. Prior to this elevation, Dr Gopinath served as an Outstanding Scientist (OS) and Associate Director at the laboratory, where he spearheaded multiple high-priority aeronautical materials projects and core research activities.

Dr Gopinath joined DRDO in 1994, dedicating over three decades to building indigenous capabilities for India's national security. Between 1994 and 2008, he played a vital role in the indigenous development of materials and components for the Kaveri Engine Programme in collaboration with multiple industries.

Upon moving to DMRL in 2008, he focused his scientific expertise on critical advancements in high-temperature materials and specialized naval steels, directly impacting the structural integrity of India's modern naval and aerospace platforms.

An alumnus of India's top engineering and research

institutes, Dr Gopinath holds a B.E. from PSG College of Technology, Coimbatore (1992), an M.Tech from IIT-Kanpur (1994), and a Ph.D. from the Indian Institute of Science (IISc), Bangalore (2009).

Beyond laboratory research, Dr Gopinath has been a key architect in integrating defence development with national academic institutions. Serving as the Coordinator of the Gas Turbine Materials & Processes (GTMAP) Programme under the aegis of the Aeronautics Research and Development Board (AR&DB), he successfully nucleated aero-engine materials research in Indian academia. His leadership directly led to the establishment of advanced research infrastructure across multiple premier institutions nationwide.

As Director, Dr Gopinath will lead DMRL's vision to provide total material solution for defence, aligning closely with the national objective of self-reliance in strategic defense material domains.

AWARD

Dr Anesh Kumar Sharma, OS & Director, Solid State Physics Laboratory (SSPL), Delhi, has been conferred the Distinguished Alumnus Award for 2025-26 by the University College of Engineering, Osmania University, during its Graduation Day ceremony. The award recognizes his exceptional technological contributions, visionary leadership, commitment to Atmanirbhar Bharat and nation building, and exemplary service to the country, particularly

in the areas of semiconductor technology, strategic electronics, and national missile programs. Dr Sharma continues to lead national initiatives in advanced semiconductor materials, photonics, quantum technologies, and MEMS-based sensors, contributing significantly to self-reliance in defence electronics.



HIGHER QUALIFICATION ACQUIRED



Shri Shajahan K, Sc 'F', Naval Physical and Oceanographic Laboratory (NPOL), Kochi, has been awarded Ph.D. under the faculty of Technology from Cochin University of Science and Technology, for the thesis titled, "Studies on Low Frequency Anti-vibration Mounts for Naval Applications".

RAJBHASHA WORKSHOPS

DRDO HQrs, Delhi

A one-day workshop on “Global Expansion of Hindi: Possibilities, Challenges and a New Identity” was organised at DRDO Headquarters on 24 August 2026. The workshop was graced by Dr Jitendra Srivastava, Poet and Professor, IGNOU, New Delhi, as the Guest Speaker. Other distinguished personalities present over there were Shri Vipin Kumar Kaushik, Director, Rajbhasha, Parliament and Public Interface, Director,



Human Resources and Vigilance, and Shri IR Ansari, Sc ‘F’ & Associate Director. In his address, Dr Srivastava highlighted that Hindi is not merely an official

language but a powerful medium of national expression, unity, and cultural identity. The event was coordinated by Smt Arun Kamal, Assistant Director (Rajbhasha).

DMRL, Hyderabad

Defence Metallurgical Research Laboratory (DMRL), Hyderabad, organised its First Hindi Workshop of the financial year 2026–27 on 25 June 2026, reaffirming its continued commitment to promoting the effective use of Rajbhasha (Official Language) in official communication and day-to-day workplace activities.

The programme began with a welcome address by Shri Pawan Kumar, Assistant Director (OL), who welcomed the guest speaker, Shri Santosh Kumar, Assistant



Director of the Central Hindi Training Sub-Institute in Central Hindi Training Sub-Institute, Hyderabad.

Shri NB Jagtap, TO 'D' Convener, Rajbhasha Section, DMRL, subsequently addressed

the gathering. Delivering the main session, Shri Santosh Kumar emphasised the importance of incorporating Hindi into routine administrative work and shared practical approaches for learning and using Hindi effectively.

DMSRDE, Kanpur

The second Hindi workshop for the FY 2026-27 on ‘Takniki shetra mein Hindi ka Vikas’ was organised by Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, on 21 August 2026. The workshop was inaugurated by Dr Kingsuk Mukhopadhyay, OS & Director, DMSRDE. Shri Narendra



Singh, Rajbhasha Pratinidhi Hindi Parishad, Kanpur, was the invited speaker. Shri Narendra Singh told

IRDE, Dehradun

The Instruments Research & Development Establishment (IRDE), Dehradun, organised second Hindi Workshop on 20 August 2026 on 'Use of Hindi in Scientific and Technical Works: Problems and Solutions'. During his inaugural address, Dr Sudhir Khare, Sc 'H' & Officiating Director, emphasised that it is the constitutional and moral responsibility of all of us to promote and develop official

that Hindi should be encouraged to be used in technical field. He said that GoI has launched various

Hindi tools and interfaces for usage of Hindi in government as well as private sector.



language Hindi in accordance with the official language policy, rules and instructions of the Government of India and to bring it into office use in practical form. During the workshop, a lecture on 'Use of Hindi in Scientific and Technical Works'

was also delivered by Dr Gaurav Mittal, Sc 'F', DEAL and another lecture was presented by Shri Madhusudan Upadhyay, Technical Officer 'C', IRDE on 'Use of Hindi in Scientific and Technical Work and Hindi Correspondence'.

PXE, Chandipur

Proof & Experimental Establishment (PXE), Chandipur, organised a three-day 103rd Hindi Workshop for the Admin and Allied cadre during 25-27 August 2026. The workshop was inaugurated by Shri Subodha Kumar Nayak, OS & Director, PXE. In his inaugural address, he told the participants to actively attend all the classes during the



workshop. A total of 32 employees participated in the workshop. During this workshop, the faculties enhanced the knowledge on Hindi

Inter Office Note, applications, Noting & Drafting, the importance of Rajbhasha and its policies, Hindi terminologies, etc.

TOLIC AWARD TO PXE

Proof & Experimental Establishment (PXE), Chandipur has been honoured at first place under the guidance of the Director Shri Subodha Kumar Nayak, OS by Town Official Language Implementation Committee (TOLIC), Baleshwar for outstanding performance and work related to implementation of Official language for the year 2025-26 among other government offices

in the town. PXE has been an active member of TOLIC, Baleshwar. The achievement reflects the consistent efforts and commitments of PXE towards promoting the effective use of Hindi in official work. Three participants of PXE also received prizes and certificates for progressive performance in Official language activities/competitions conducted by



different government offices under the banner of TOLIC, Baleshwar.

FELICITATION OF SPORTS ACHIEVERS ON THE OCCASION OF NATIONAL SPORTS DAY

On 3 September 2026, The DRDO Sports Board (DSB) celebrated National Sports Day at the High Energy Materials Research Laboratory (HEMRL), Pune, recognising the outstanding sporting achievements of DRDO employees and their wards.

Ms Rekha Bhide, former Vice-Captain of the Indian Women's Hockey Team and Arjuna Awardee was Chief Guest for the event. The programme was graced by Prof. (Dr) Prateek Kishore, DS & DG (ACE), Dr Ravindra Singh, OS & DG (R&M) and Vice Patron-in-Chief, DSB, Dr AP Dash, OS & Director, HEMRL and Shri Arun Chaudhary, Director-DIIQM & Vice President, DSB. Shri Umesh Zirpe, Veteran Mountaineer and Pioneer in Adventure Education in India and Shri Chaitanya Velhal, Ultra Endurance Cyclist, Ultra Runner, Iron Man Coach were also present. Sharing her experience from a distinguished career in hockey, Ms. Rekha Bhide spoke about the importance of dedication and perseverance in

achieving success in sports and life.

The programme concluded with the felicitation of DRDO employees and their wards that excelled in various sporting disciplines. The achievers included Krush Sunil Suryawanshi, son of Sunil Ananda Suryawanshi, TA 'B', ARDE, for Ice & Roller Skating; Vivaan Bisht, son of Geeta Bisht, AO, ISSA, for Badminton; Prabhav Atwal, son of Balwinder Kumar, SC 'E', DRDL, for Chess; Gaurav Pandya, TO 'B', IRDE, for Para-

Badminton; Lavanya Hazari, daughter of Dr. Puja Panwar Hazari, SC 'F', INMAS, for Yogsana; and Vignesh Dakshinamurthy, son of Dakshina Murthy, SAO-II, GTRE, for Football.

The DRDO also recognised achievers from the PwD category, underscoring DRDO's commitment to an inclusive sporting environment. The celebration reaffirmed the organisation's focus on employee well-being and sporting excellence alongside its scientific and technological pursuits.



NORTH ZONE CHESS TOURNAMENT AT SSPL

The North Zone Chess Tournament 2025-26, organized by the Solid State Physics Laboratory (SSPL), Delhi, was successfully conducted from 12 to 14 August 2026 under the aegis of the North Zone Sports Council and DRDO Sports Board. The tournament was conducted under the guidance and encouragement of the Dr Anesh Kumar Sharma, OS & Director, SSPL, and witnessed enthusiastic participation of 87 players representing 16 DRDO laboratories of the North Zone. The tournament comprised the Team Event, Open Men's Individual Event, and Open Women's Individual Event. The tournament was conducted with technical support from IGSSF Academy, Delhi. The event was managed through dedicated chess tournament software, with results also made available online.

The tournament was carried out under the mentorship of Dr



Raghavendra Sahai Saxena, Sc 'G', who provided valuable guidance and support to the Organizing Committee. The organizing team was led by Shri Mohan Lal, Sc 'E', Chairman, and Shri Mohd. Imran, Sc 'E', Co-Chairman, with Shri Satyadhari Yadav, Secretary, and Shri Sudama Sharma, Treasurer, as members of the Organizing

Team. In the Men's Individual Event, Shri Nemank Yadav secured the first position, followed by Dr Vikash Kumar Sharma. In the Women's Individual Event, Ms Nikita Kumari emerged as the winner, followed by Ms Shashi Jaint. TBRL took first place in the Team Event, with ISSA coming in second.

DIHAR HOSTS DRDO NORTH ZONE AND NATIONAL CARROM TOURNAMENTS 2026

Defence Institute of High Altitude Research (DIHAR), Leh, hosted the DRDO North Zone Carrom Tournament-2026 during 7-9 September 2026, followed by the DRDO National Carrom Tournament-2026 during 10-12 September 2026.

The North Zone tournament witnessed a record participation of 157 participants from more than 25 DRDO laboratories/establishments, making it the





highest-ever participation recorded in DRDO carrom tournament. In the team championship, DEAL, Dehradun emerged as the winner, while DMSRDE, Kanpur secured the runner-up position.

The National Carrom Tournament brought together 63 players representing the North, Central, West and South Zones, along with four team managers and four coaches, for competitions in singles, doubles, mixed doubles and team championship categories. The central zone emerged as the team championship winner,

with west zone as runner-up. The tournaments were inaugurated by senior DRDO officials and representatives of DRDO Sports Board and the respective Sports Councils, including Dr OP Chaurasia, OS & Centre Head, DIHAR; Dr Neeraj Sharma, Sc 'G' & Associate Director, DIHAR; Shri KPC Rao, Sc 'G' & Chairman, West Zone Sports Council; Shri Ram Prakash, Sc 'E' & Member, DSB, Shri Suryakant Kumar, Sc 'E' & Secretary, North Zone Sports Council; and Shri Vishal Mhetre, Sc 'B' & Chairman, Organising Committee.

The successful conduct of the two tournaments back-to-back marked a significant milestone for DIHAR, as it was the first Carrom tournament hosted by the institute in its nearly six-decade history. Despite the logistical challenges associated with organising a major sporting event at a remote high-altitude location and with limited resources, the tournaments were successfully conducted with the coordinated support of DRDO Sports Board, North Zone Sports Council, participating DRDO laboratories, referees, officials and DIHAR officers and staff.

PXE CELEBRATED DRDO NATIONAL SPORTS DAY

The DRDO National Sports Day was celebrated by Proof & Experimental Establishment (PXE), Chandipur, with great enthusiasm on 3 September 2026, marking the beginning of a series of sporting activities aimed at promoting fitness, teamwork and camaraderie among employees.

The celebration commenced with a friendly football match among the employees, creating an energetic and enjoyable atmosphere. The match provided an excellent opportunity for 250 employees of PXE to come together beyond their regular work environment, demonstrating team spirit, sportsmanship and healthy competition.

Shri Subodha Kumar Nayak, OS & Director, PXE, other senior officers along with the sports committee members graced

the occasion, encouraging the participants and appreciating their enthusiasm towards sports and physical well-being. The celebration reinforced the importance of a healthy

lifestyle, team spirit and camaraderie among employees. Their enthusiastic participation made the event memorable and successful start to the annual sporting activities at PXE.



ACUPRESSURE THERAPY AWARENESS CAMP

The Directorate of Management & Security (DMS), DRDO HQrs, organised an Awareness Camp on Acupressure Therapy (Acupuncture without Needles) on 2 September. The programme was organised in association with Acupressure Shodh Prashikshan Evam Upchar Sansthan (ASPUES), Prayagraj, an acupressure institute working in the field since 1995. The awareness camp was organised with the objective of creating awareness about

acupressure as a complementary wellness practice and to provide an opportunity to learn about acupressure techniques. The programme was inaugurated by OS & DG (R&M) in the presence of Director, DMS, Associate Director Ms Sweta Singh and Shri BS Solanki. Representatives and practitioners associated with ASPUES, conducted the awareness sessions and apprised about the basic principles of acupressure and commonly practised techniques.



BLOOD DONATION CAMP AT HEMRL

A voluntary Blood Donation Drive was organized by the High Energy Materials Research Laboratory (HEMRL), Pune, on 2 September 2026 in association with Jankalyan Blood Bank, Pune. An overwhelming response was received from 117 donors. Keeping in line with prescribed guidelines and protocols, the camp was conducted under the supervision of trained healthcare professionals



and specialists, ensuring medical standards. Each donor was

acknowledged with a certificate for their participation in the drive.

CANCER AWARENESS TALK AT ACEM

To empower Advanced Centre for Energetic Materials (ACEM), Nasik, employees with knowledge, reinforce safety culture, and support early detection, ACEM organised a 'Cancer Awareness Talk' on 7 August 2026 by inviting experts from Ashoka Cancer Centres of America (CCA) Hospital, Nasik. The hospital is empanelled under CGHS. The purpose of the talk was to educate employees about the significance of early cancer detection and treatment.

The talk was delivered by Dr Shraddha Walvekar (preventive oncologist) with her team of qualified medical professionals who specialize in oncology. She shared valuable insights about what cancer is, various types of cancer, their symptoms, and the latest advancements in cancer treatment. The speakers also emphasized the importance of regular health check-ups and a healthy lifestyle in preventing cancer.



VISITORS TO DRDO LABORATORIES

CAIR, Bengaluru

Lt Gen Sanjeev Chauhan, AVSM, YSM, Dy C-in-C, HQ-SFC, visited the Centre for Artificial Intelligence and Robotics (CAIR), Bengaluru, on 13 August 2026. During the visit, Dr Rituraj Kumar, OS & Director, CAIR, delivered a comprehensive briefing on the Centre's activities, technological capabilities and ongoing R&D initiatives. The briefing was followed by detailed discussions and demonstrations of various technologies developed by CAIR in the area of command and control systems for Land Forces.



DEBEL, Bengaluru

Shri MK Anand Kumar, Regional Director, ALISDA, DGAQA, Bangalore visited Defence Bioengineering and Electromedical Laboratory (DEBEL), Bengaluru, along with other DGAQA representatives on 11 August 2026. Dr R Indu Shekar, OS & Director, DEBEL briefed about various ongoing and futuristic activities of DEBEL. The interaction was followed by demonstration of DEBEL developed products by Smt Subbulakshmi MS, Sc 'G'.



DMRL, Hyderabad

Defence Metallurgical Research Laboratory (DMRL), Hyderabad, hosted a technical field visit on 28 August 2026 for a delegation of 42 B.Tech scholars accompanied by three faculty coordinators from the Hyderabad Institute of



Technology and Management (HITM), Hyderabad. Dr Sarabjit Singh, Sc 'G', briefed them about the laboratory's activities followed by visit to state-of-the-art laboratory facilities.

HEMRL, Pune

□ Air Vice Marshal (AVM) Kaustubh Apte, VSM, ACAS Procurement, visited High Energy Materials Research Laboratory (HEMRL), Pune, on 10 August 2026. During the visit, presentations were made by the senior scientists on the Indignation and Life Extension Study of EAX/PC, the MDC Detonator used in Hawk, and the CSS set for LCA.

He interacted with senior scientists and emphasised the involvement of start-ups and MSMEs after the development of indigenous stores.

□ Rear Admiral Nirbhay Bapna, AVSM, VSM, visited the High Energy Materials Research Laboratory (HEMRL), Pune, on 11 August 2026. During the visit, presentations were made by the senior scientists on the indigenisation of pyro cartridges for u/w articles 2556 & 2600, the indigenous development of insensitive munitions (IM) composition for naval warheads, the indigenous development of signal flares (green and red) & anti-sonar decoys for Kalveri-class submarines, the 36 mm IR flare for P-8I aircraft, the IR flare PPR-50-3-110 for the Mig 29 A/c, the smoke flares (red & green) for the P-75 submarine, the development of propellants, igniters and pyro cartridges for HEM-NM, and the development of insensitive



munition (IM) technology for the 500 kg class. General Purpose (GP) bomb, Development of Long Range Anti-Ship Missile (LR-AShM) and Naval Anti-Ship Missile Short Range (NASM-SR)

IRDE, Dehradun

□ Vice Admiral Deepak Goswami, AVSM visited Instruments Research & Development Establishment (IRDE), Dehradun, on 14 August 2026. Dr Ajay Kumar, OS & Director, IRDE welcomed Vice Admiral Deepak Goswami. Dr Ajay Kumar presented major R&D initiatives taken by IRDE and technologies developed at IRDE. He also briefed about

various products which have been developed and inducted into the Services. Dr Ajay Kumar also presented future technologies and systems in which IRDE is spearheading the development work and also make him aware about the the presence of IRDE products in land, water, air and space. Vice Admiral Deepak Goswami was delighted for the R&D activities happening in the field of electro-optics in IRDE. He appreciated the role of IRDE in providing electro-optics solutions for users.

Vice Admiral Deepak Goswami also visited IRDE Diamond Jubilee Gallery and watched the

features of Gallery. He saw the Technology Area, System Area, Down-the-Memory Lane and Lab WOW moments in the Gallery. He appreciated the efforts of scientists and officers in achieving the targets and developing state-of-the-art systems. He wished all the very best to the lab towards excellence.

□ Dr Anesh Kumar Sharma, OS & Director, Solid State Physical Laboratory (SSPL), Delhi, visited Instruments Research & Development Establishment (IRDE), Dehradun, on 13 August 2026. He was welcomed by Dr Ajay Kumar, OS & Director, IRDE. Dr Sharma interacted with the senior scientists of IRDE and was appraised about the systems and technologies developed by the laboratory. Dr Sharma showed keen interest in major R&D initiatives taken by IRDE and technologies developed at IRDE. Dr Ajay Kumar briefed Dr Sharma about various products which have been developed and inducted into Services. Dr Sharma appreciated the efforts of IRDE in developing state-of-the-art systems.

NPOL, KOCHI

□ R Adm Biplab Hota, VSM, ACNS (Air) visited Naval Physical & Oceanographic Laboratory (NPOL), Kochi, for an in-depth review of all the air borne projects on 10 August 2026. He reviewed the progress in the development and testing of all the indigenous sonobuoys, dunking sonar and the air dropped underwater target simulator. The future plans for the MRMR program were also discussed. ACNS commended NPOL on the new



developments and technical trial results concerning all the new technologies being developed. A periodic monitoring and review mechanism was also suggested to monitor all the airborne projects.

□ A group of 15 final-year students visited Naval Physical & Oceanographic Laboratory (NPOL), Kochi, on 11 August 2026 as part of DRDO–Accademia activity, from Cochin University of Science and Technology (CUSAT), to familiarize themselves with the surface buoy system developed under project Varunamaalaa.

NPOL scientists briefed on the design aspects of the surface buoy-based noise measurement system “Varuna Dhwani,” the attached sensors, their functions, and the data acquisition and transmission operations.

SSPL, Delhi

An industrial visit by students from Delhi Technological University (DTU) and Maharaja Agrasen Institute of Technology



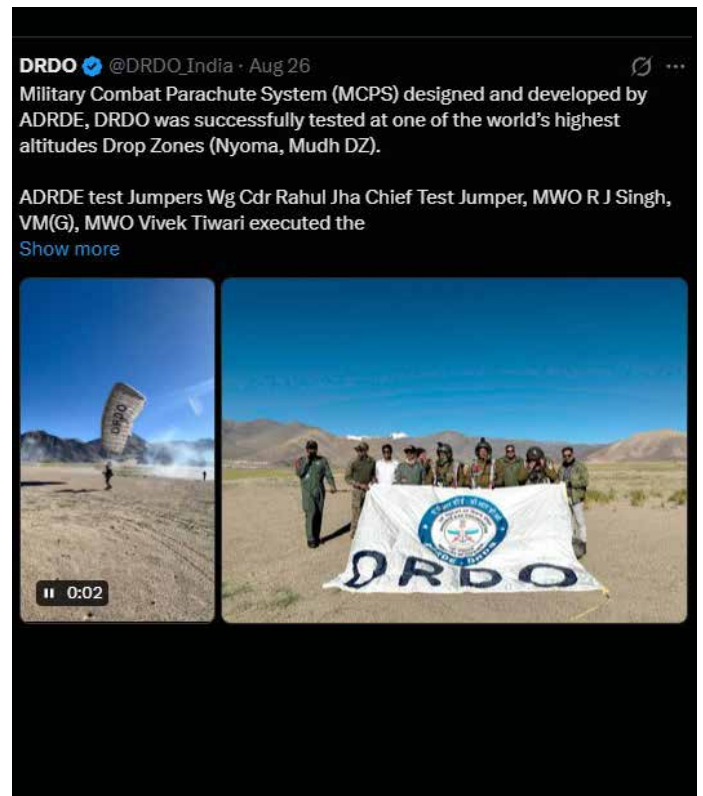
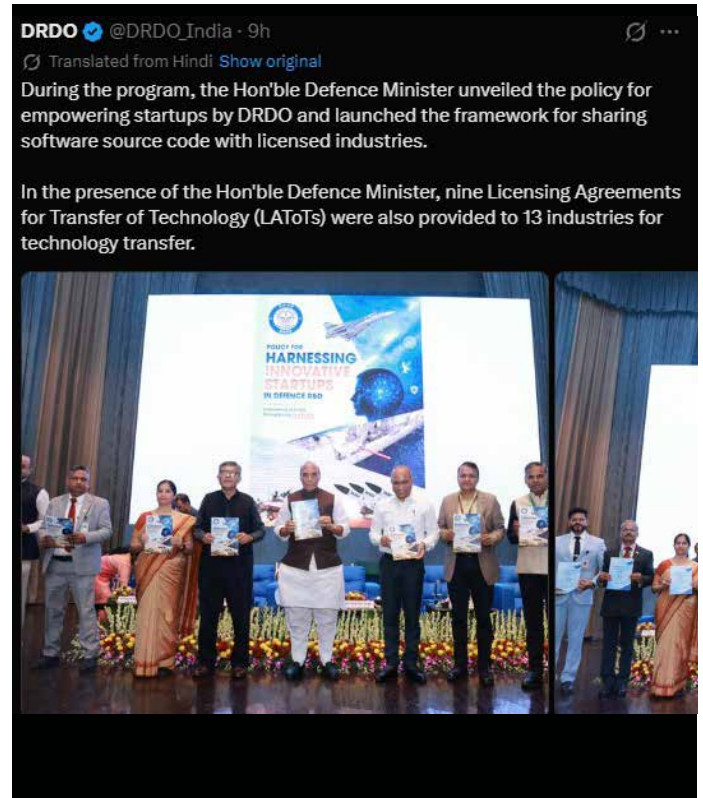
(MAIT) was organised at the Solid State Physics Laboratory (SSPL), Delhi, to provide students with first-hand exposure to semiconductor technology and its strategic applications. The visit was coordinated by Dr Ram Ashish Chouksey, Sc 'F' and Dr Shaveta, Sc 'F'. Dr Pika Jha, Sc 'G' & Group Director, welcomed the visiting students and briefed them on the objectives of the interaction. Dr Rupesh Kumar Chaubey, Sc 'F', provided an overview of the laboratory and highlighted

the significance of semiconductor technology in modern electronics and strategic systems. The students were familiarised with various semiconductor technologies and facilities and guided them on a tour of the laboratory facilities. The visit also included an interactive session with SSPL scientists, providing students an opportunity to understand ongoing research, career opportunities and emerging areas in semiconductor technology.





DRDO ON X: HIGHLIGHTS





DRDO @DRDO_India · Aug 25

DRDO & Indian Army signed a Joint Working Arrangement on 25 Aug 2026 to accelerate development of futuristic military technologies for bringing together DRDO, industry, academia & the Armed Forces.

The JWA was signed today between DG Technology Management, DRDO and DG Military
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DRDO

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DRDO @DRDO_India · Aug 24

[Translated from Hindi · Show original](#)

Today, on 24 August, the dignified Inaugural ceremony of Hindi Pakhwada was successfully concluded with great enthusiasm and joy at the DRDO headquarters. The chief guest of this program was Dr. Jitendra Srivastava, poet and professor, IGNOU, New Delhi; Shri Vipin Kumar Kaushik, Director, Official Language, Parliament and Public Relations; and Dr. Sanjay Dwivedi, Director, Human Resources and Vigilance, were present.

In his inspiring address, Dr. Jitendra Srivastava Ji stated that Hindi is not merely our official language, but a powerful language of the nation's expression, unity, and self-respect. The program emphasized the extensive and effective use of Hindi as well as promoting Hindi in scientific and technical works. This event conveys the message of a strong bridge between the rich heritage of Hindi and modern knowledge-science.

Hindi Pakhwada will be organized at the DRDO headquarters from 24 August to 18 September, in which 22 competitions will be held.



DRDO @DRDO_India · Aug 23

Celebrating the remarkable journey of India's space endeavour on [#NationalSpaceDay](#), DRDO salutes the vision, scientific excellence and unwavering dedication of the nation's space scientists, engineers and innovators who continue to propel India to new frontiers.

DRDO remains committed to advancing indigenous technologies and strengthening national capabilities towards a technologically empowered, secure and [#AtmanirbharBharat](#).

[#NationalSpaceDay](#) [#DRDO](#) [#JaiHind](#) 🇮🇳



DRDO @DRDO_India · Aug 21

Naval Science & Technological Laboratory (NSTL), DRDO signed two Licensing Agreements for Transfer of Technology (LAToT), strengthening indigenous defence manufacturing capabilities.

The agreements cover Submarine Fired Decoy (SFD) with M/s Bharat Dynamics Limited (BDL) and
[Show more](#)

