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MAIDEN RAIL LAUNCH OF AGNI PRIME



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- Visakhapatnam** : Smt Jyotsna Rani, Naval Science & Technological Laboratory (NSTL)



Contents

COVER STORY	4
INNOVATION	5
LATOT & MOU	7
FEATURE ARTICLE	9
EVENTS	11
HRD ACTIVITIES	20



PERSONNEL NEWS	33
RAJBHASHA ACTIVITIES	33
SPORTS ACTIVITIES	36
SOCIAL ACTIVITIES	37
VISITS	39

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MAIDEN RAIL LAUNCH OF AGNI PRIME

A significant strategic milestone was achieved on 24 September 2025 when Defence Research & Development Organisation (DRDO) and Strategic Forces command jointly carried out the successful maiden launch of Intermediate Range Agni Prime Missile from a Rail Mobile Platform.

The Agni Prime Rail Launch was first-of-its-kind, carried out from a specially designed Rail-based Mobile Launcher, designed to move on rail network without any pre conditions. The rail entities which participated in maiden launch are all self-sustained and are also equipped with all independent launch capability features including multi launch support, state-of-the-art communication systems and protection mechanisms.

The system is a game changer with launch on the move capability from rail network that allows the user to have a cross country mobility and launch within a short reaction time with reduced visibility. Also, this class of system enhances the capability of strategic forces as a force multiplier with road cum rail missile configuration.

This state-of-the-art new generation Agni Prime missile is designed to cover a range of up to 2000 km and is equipped with various advanced features. It is a two staged canisterised solid propellant ballistic missile equipped with dual redundant navigation and guidance system. The canister-based missile system facilitates rapid deployment,





storage and mobility. It is to be noted that Road Mobile Agni Prime has already been inducted into the Services after a series of successful flight trials.

The maiden flight test was carried out in full operational scenario with User participation. The missile trajectory was tracked by various ground stations and it was a copy book launch with performance on par with road launched system and met all mission objectives.

This successful first operational use of rail configuration for Agni Prime, will pave way to all futuristic rail-based systems induction into services.

Secretary DD (R&D) & Chairman DRDO Dr Samir V Kamat; Director General (MSS) Shri U Rajababu; Director, ASL Shri G.A. Srinivasa Murthy; and C-in-C Strategic Forces Command Vice Admiral Suraj Berry monitored all events from

stop to launch and up to terminal event during mission.

Hon'ble Raksha Mantri Shri Rajnath Singh congratulated DRDO, Strategic Forces Command and the Armed Forces on successful test of Intermediate Range ballistic missile and stated that the successful flight test has put India in the group of select nations having capabilities that have developed canisterised launch system from on the move rail network.

INNOVATION

DEVELOPMENT OF THE SIGNAL STAR NAVAL FLARE FOR KALVARI-CLASS SUBMARINES

High Energy Materials Research Laboratory (HEMRL), Pune, has achieved a milestone with the development of the Signal Star Naval Flare for Kalvari-Class Submarines. The laboratory has successfully achieved a significant milestone in the development of critical naval flares—the Star Signal Naval Flare.

The flares will be used in the Kalvari-class submarines. At a ceremony, held on 29 August 2025, Dr AP Dash, Director HEMRL, formally delivered the system to Rear Admiral Rupak Barua, DG-NAI. This achievement marks a significant step towards Atmanirbhar Bharat in the field of critical defence pyrotechnics.

The Star Signal Naval Flare, designed and developed by HEMRL, is a vital visual communication tool used primarily for signaling during day and night operations or in adverse





weather conditions. Engineered to produce a bright, intense light that is visible over long distances, the flare ensures effective identification, distress signaling, and coordination among naval units.

Incorporating advanced pyrotechnic formulations, the flare delivers extended burn time with consistent brightness, ensuring reliability in critical situations.

The flares were tested successfully from the submarine in strict accordance with Provisional Staff Qualitative Requirement.

These tests ensure the flare met all the necessary safety, performance, and reliability standards under the operating conditions specific to the submarine deployment.

The successful completion of these trials validates the flare's functionality and effectiveness as a critical signaling device in the underwater environment, confirming compliance with the rigorous criteria set forth in the PSQR. These flares not only meet the stringent quality and performance of defence standards but also offer cost-effective

solutions tailored to the specific operational requirements of the Indian Navy.

The successful development of the system eliminates the dependence on foreign suppliers for a critical submarine pyrotechnic. It demonstrates the growing mastery in formulating advanced pyrotechnic compositions (for high-brightness red and green signals), designing robust housings, and ensuring long shelf life reliability in harsh marine environments.

SUCCESSFUL MAIDEN FLIGHT-TESTS OF INTEGRATED AIR DEFENCE WEAPON SYSTEM

DRDO successfully conducted the maiden flight tests of the Integrated Air Defence Weapon System (IADWS) off the coast of Odisha on 23 August 2025. IADWS is a multi-layered air defence system comprising all indigenous Quick Reaction Surface-to-Air Missiles (QRSAM), Advanced Very Short Range Air Defence System (VSHORADS) missiles, and a high-power laser-based Directed Energy Weapon (DEW).

Integrated operation of all the weapon system components is controlled by a Centralised Command and Control Centre developed by the Defence Research & Development Laboratory (DRDL), being the nodal laboratory of the program. VSHORADS and DEW are developed by Research Centre Imarat (RCI) and Centre for High Energy Systems and Sciences (CHESS), respectively.

During the flight tests, three different targets, including two high-speed fixed-wing unmanned aerial vehicle targets and a multi-copter drone, were simultaneously engaged and destroyed completely by the QRSAM, VSHORADS, and high-energy laser weapon system at different ranges and altitudes. All the weapon system

components, including the missile systems and drone detection & destruction system, weapon system command & control, along with communication and radars, performed flawlessly, which was confirmed by Range instruments deployed by Integrated Test Range (ITR), Chandipur, to capture the flight data.



DRDO TRANSFERS THREE ADVANCED MATERIALS TECHNOLOGIES TO THE INDUSTRY

The Defence Metallurgical Research Laboratory (DMRL), Hyderabad, has transferred three advanced materials technologies to the industry partners. Secretary, Department of Defence R&D and Chairman DRDO Dr Samir V Kamat, handed over the Licensing Agreement for Transfer of Technology (LAToT) documents to the industry partners at an event organised on 30 August 2025 at Hyderabad. The technologies transferred are:

- Manufacturing of high-strength radomes for BHEL, Jagdishpur, for enabling production of high-quality radomes (protective covers for crucial missile sensors) to support key defence programs and enhance self-reliance in missile systems.
- Manufacturing of DMR-1700 steel sheets and plates for defence applications to JSPL, Angul, offering an excellent combination of ultrahigh strength and high fracture toughness at room temperature.
- DMR 249A HSLA Steel Plates for naval applications to BSP, Bhilai, SAIL, offering a robust and reliable material, meeting the stringent dimensional, physical, and metallurgical requirements for the construction of naval vessels.

In his address, the DRDO Chairman appreciated DMRL's commitment to fostering industry-research partnerships and advancing technological innovations that will have a



substantial impact going forward.

This ToT represents a major improvement in indigenous materials technology for strategic applications.

The technologies span diverse applications, demonstrating DMRL's multi-disciplinary expertise and its ability to meet critical industry needs.

Partnering with established industrial players will ensure that these innovations are

rapidly scaled and deployed for commercial and strategic use.

Further strengthening DRDO's collaborative ecosystem, an MoU was also signed between DMRL and the Aircraft Accident Investigation Bureau of the Ministry of Civil Aviation for utilising the lab's experience, facilities & capabilities to support the bureau's activities. The event was attended by DG (NS&M), DG (R&M), and Director, DMRL.



MOU BETWEEN SAG AND JNU

Scientific Analysis Group (SAG), Delhi and Jawaharlal Nehru University (JNU) have signed a strategic partnership through Memorandum of Understanding (MoU) on 1 September 2025. The collaboration is designed to accelerate joint research and academic exchange in vital, cutting-edge fields. The core areas of focus include cybersecurity, Artificial Intelligence (AI), big data analytics, and Natural Language Processing (NLP) for strategic defence applications, such as advanced machine translation and information retrieval.

This partnership not only provides JNU students and



researchers with invaluable hands-on experience but also, by fostering mutual growth, strengthens the critical connection between

academia and government, paving the way for the development of indigenous technologies essential for India's self-reliance.

MOU BETWEEN SOLAR ENERGY CORPORATION OF INDIA AND DRDO

A Memorandum of Understanding (MoU) has been executed between Solar Energy Corporation of India (SECI) and DRDO under National Solar Mission and its thrust towards achieving energy neutrality and Net Zero Carbon goals. Under this, 250 MW solar power generation is aimed to make DRDO a Green Organisation. As part of this, a land use agreement has been signed for handing over of 402 acres of land at Aeronautical Test Range, Chitradurga, Karnataka to SECI for generation of 100 MW solar power for use of DRDO laboratories in the country at concessional rates.

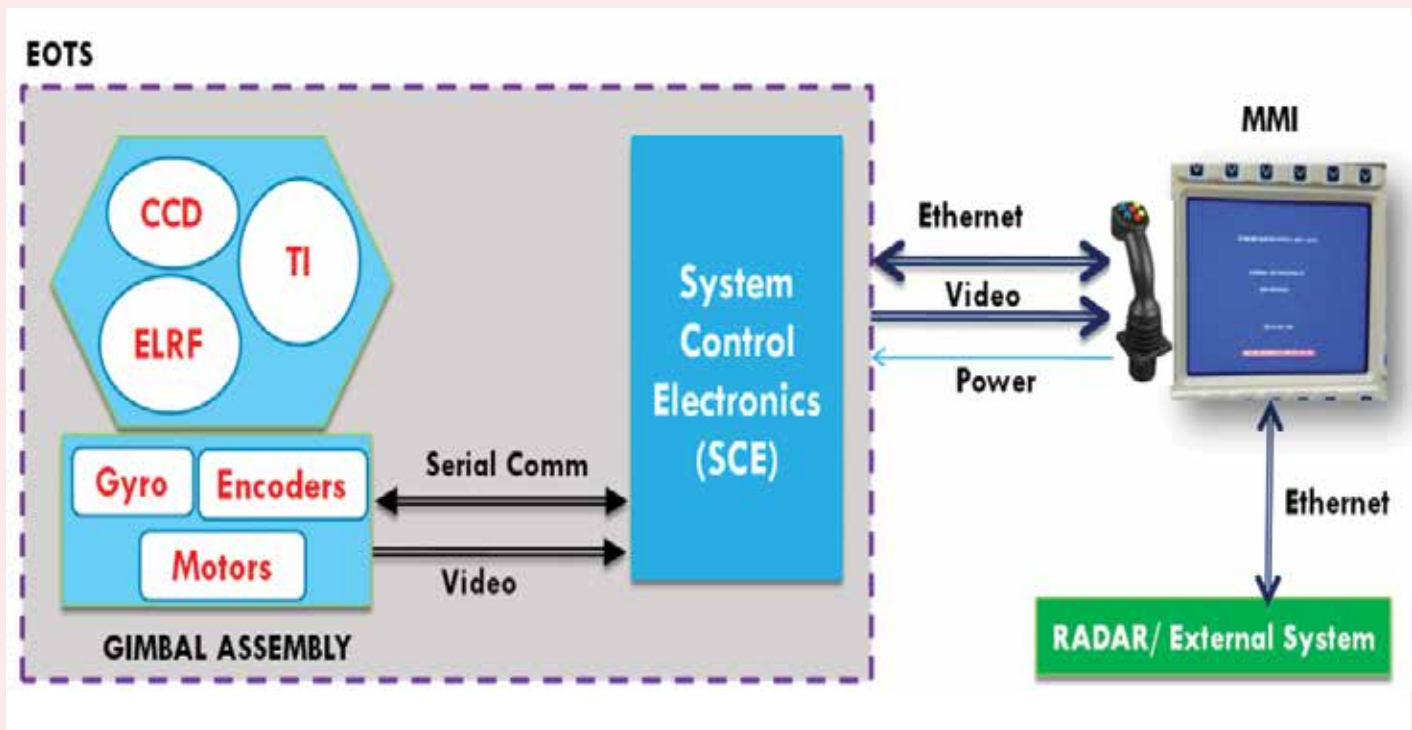


NEW GENERATION ELECTRO-OPTICAL TRACKING SYSTEM (EOTS)—AN ADVANCED PASSIVE SYSTEM FOR PRECISION MISSILE GUIDANCE

Short and Medium Range Surface-to-Air Missile (SMRSAM) system provides air-defence coverage against fighter aircrafts, helicopters, UAV, Anti-Radiation Missile (ARM) and subsonic cruise missile. These weapon systems are generally capable of engaging multiple targets simultaneously. These air-defence systems generally uses ground-based Radars for missile guidance to engage targets. But Radars are always vulnerable to ARM and cruise missiles. The Battery Command Post (BCP)/ Command Centre (CC)/ Command & Control Unit (CCU)/ Radar vehicle is the part of weapon system firing Unit. The augmentation of new generation EOTS to SMRAM systems can supplement Radar and enhance the performance by providing passive

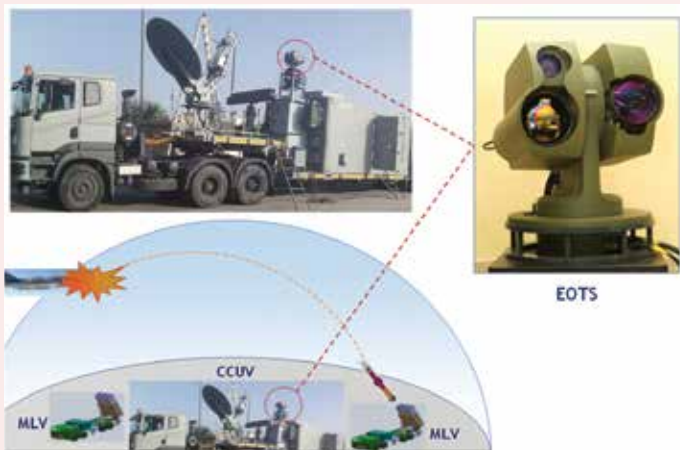
surveillance, detection, tracking and precise missile guidance capability, covertly.

Electro-Optical Tracking System (EOTS) provides stabilized Line of Sight (LOS) to perform the surveillance, target detection, and automatic acquisition of target. EOTS allows the EO Sensor's LOS to be aimed and maintained, in required orientation, in the field of regard, independent of platform altitude and motions. The EOTS consists of EO sensors, servo-sensors/actuators, EOTS Control Electronics (ECE) with Advanced AI/ML Enabled Automatic Video Tracker (AI-AVT), a power supply unit and a gimbal assembly as depicted in the following block diagram.





EOTS can be mounted on BCP/CU/CCU/Radar of any weapon system and it works with Radar or any other external designation source in integrated mode. After getting the initial target cue from Radar or by manual search, EOTS orients its LOS towards designated position for target acquisition. EOTS automatically detects & locks the target and invokes auto-tracking. EOTS is compatible with missile guidance system and became an important passive precision guidance unit. EOTS can also help in target confirmation as received from Radar. A typical operational scenario of SMRSAM System is shown below.



Salient Features of EOTS

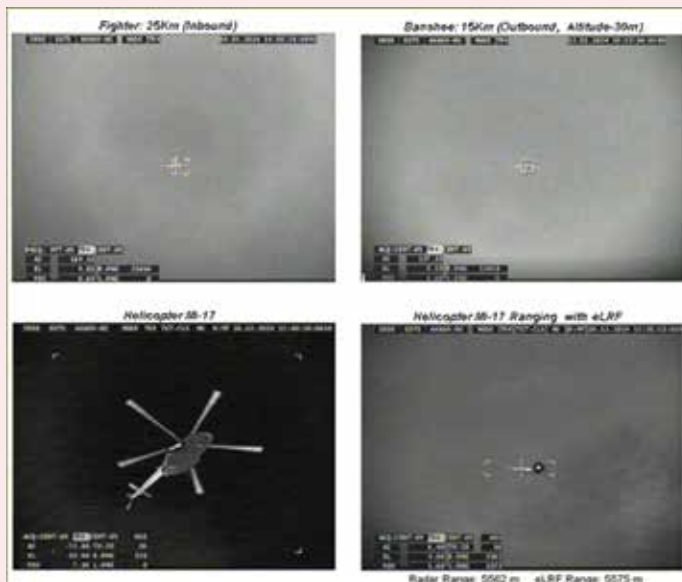
- Panoramic 2-axis stabilized gimbal system
- Day & night operation
- 3-D data generation
- Tracking range upto 45 Km (fighter aircraft and ARM)
- Automatic target acquisition and tracking
- Automatic/manual surveillance for air-defence
- Target acquisition from external designation systems like Radar/IACSS Network, etc.
- Compatible with missile guidance system

Recent Breakthrough & Achievements

User Trials of Akash-NG (EOTS Mission):
Tracking of high speed manoeuvring target (Banshee)

and real time guidance of Akash-NG Missile using EOTS. In the historic maiden flight for missile guidance using EOTS, missile directly hit the target successfully Off Chandipur Coast in the month of June 2025. Results of real-time auto tracking of high speed target and missile guidance for EOTS Mission is presented below. The auto tracking performance by EOTS for different types of targets like fighter aircraft, Banshee, helicopter, etc. is also shown below.

Akash-NG User Trial (EOTS Mission) - Missile Guidance & Target Engagement Using EOTS



Conclusion

EOTS has been used for the purpose of surveillance, reconnaissance, and tracking of targets in SMRSAM Systems. IRDE's New Generation- EOTS can supplement Radar and enhance the performance by providing passive surveillance, detection, tracking and precise missile guidance capability, covertly.

(Ram Saran, Instruments Research & Development Establishment (IRDE), Dehradun)

DEMONSTRATION OF WOUND HEALING DEVICE

Demonstration of Portable Advanced Wound Healing Device (Punaravartan), developed under Technology Development Fund (TDF) Scheme through M/s Inochi



Care Pvt. Ltd. The mentoring of DRDO laboratories, including the Institute of Nuclear Medicine & Allied Sciences (INMAS), Delhi, and the Defence Bioengineering



and Electromedical Laboratory (DEBEL), Bengaluru, was organized by the Directorate of Low Intensity Conflict (DLIC) and the Directorate of Technology Development Fund (DTDF) on 9 September 2025. A large number

of officers from Central Armed Police Forces (CAPFs), National Disaster Response Force (NDRF), and Delhi Police were present and expressed keen interest in the device for its faster and effective healing properties.

ANNUAL DAY CELEBRATIONS AT CHESS

The Centre for High Energy Systems and Sciences (CHESS) celebrated its 12th Annual Day on 1 August 2025 with great enthusiasm and fervor. Shri VB Patil, Sc 'G' & Chairman, organizing committee

gave welcome address and Dr Jagannath Nayak, DS & Director, CHESS presented the laboratory's achievements and the future road map. Dr VK Saraswat, Member of NITI Aayog and former secretary

DD R&D graced the occasion as Chief Guest.

He appreciated CHESS's growth as beyond imagination and motivated the CHESS fraternity to develop more and more advanced





DEW systems during his address. Dr BK Das, DS & DG (ECS) cluster, graced the event as the Guest of Honor and immensely appreciated the growth journey of CHES and urged all stakeholders to be more innovative and aggressive in developing DEW technologies and systems.

Shri LC Mangal, DS & DG (TM); Dr SS Sundaram, former DG (ECS); Dr Srinivas Rao,

former DG (NS&M); Director, DIITM; Director, DFTM; Director, HEMRL; Director, DRDL; Director, DSP; Program Directors; more than 45 industry heads; and 30 premier academics attended as special invitees.

Mementos to industry and academia partners to acknowledge their contribution, commendation certificates, 25-year service mementos to employees, and

appreciation certificates to meritorious children of classes X and XII were presented by the Chief Guest in the presence of Guest of Honour.

Various sports activities and cultural programs were also organized showcasing in-house talents. Shri Sanjeev Kumar, Sc 'F' & Director Management Services (DMS), presented the vote of thanks.

RAISING DAY CELEBRATIONS AT DIPR

Marking the glorious occasion, the Defence Institute of Psychological Research (DIPR), Delhi, celebrated its 77th Raising Day on 29 August 2025. Dr BK Das, DS & DG (ECS) was Chief Guest of the event, and Dr Chandrika Kaushik, DS & DG (PC&SI), was the Guest of Honour. The event was also graced by Directors from Delhi-based DRDO laboratories, Corporate Directors from DRDO HQrs, senior officials from armed forces, central armed police forces, former directors, senior scientists, service officers, other distinguished guests and the DIPR family.

Dr Devakanta Pahad Singh, OS & Director, DIPR, welcomed the dignitaries and highlighted the achievements and provided a snapshot of the various R&D initiatives undertaken by the laboratory in diversified areas of selection, training, placement, screening for specialised roles & rendering psychological support to the Indian Armed Forces and Central Armed Police Forces. He also highlighted the successful Transfer of Technology (ToT) of Computerised Pilot Selection



System (CPSS), jointly developed by DIPR and ADE to M/s Bharat Electronics Limited, the first ToT of the laboratory.

Dr Das congratulated each of the past and present members of the DIPR family for their unparalleled contributions that have defined DIPR's illustrious legacy and resolute strides forward. As part of the event, he also released the "SAKSHAM" Training Module.

Dr Kaushik extended her warm greetings to the DIPR family and urged upon the scientific fraternity

to explore technology-enabled solutions for the development of novel psychological solutions for the DRDO and Armed Forces. She handed over the lab-level commendation awards and certificates to the children of the DIPR fraternity for their meritorious academic performance.

The event was followed by a cultural showcase with captivating performances. Many sports events were also conducted as part of the Raising Day celebrations.



RAISING DAY CELEBRATION AT NSTL

Naval Science & Technological Laboratory (NSTL), Visakhapatnam, celebrated its 56th Raising Day in a festive manner. Dr Samir V Kamat, Secretary DD R&D & Chairman was the Chief Guest of the occasion and Dr RV Haraprasad, DS & DG (NS&M) as the Guest of Honour and Rear Admiral Arvind Rawal, Assistant Chief of Material (Dockyard & Refit) as Distinguished Guest.

In his welcome address, Dr PK Pattanayak, Sc 'F' & Chairman LRDC-2025 gave a brief of all the events organized as part of LRDC-2025; Dr HN Das, OS & Chairman, Works Committee gave Annual Report of activities undertaken by Works Committee during the year 24-2025. Dr Abraham Varughese, OS & Director, during his address



briefed the notable technological achievements of NSTL during the year.

Dr Samir V Kamat handed over Transfer of Technology (ToT) of Balloon Recovery System for Varunastra to Sri PV Raja Ram, Director (Production) of Bharat Dynamics Ltd. He handed over

NSTL-developed Hybrid GT-IRSS to Rear Admiral Rawal. The indigenous RADAR Cross-Section (RCS) prediction software NIRVANA was released by the dignitaries. Also, 9th edition of Manthan, NSTL's in-house Hindi Magazine was released on this occasion.

DRDO LAUNCHES ITS NEW WEBSITE

DRDO launched its redesigned official website on 1 October 2025 aimed at providing a more user-friendly, informative, and engaging digital platform. Defence Scientific Information & Documentation Centre (DESIDOC), Delhi, has designed and developed the new DRDO Website as per Digital Brand Identity Manual (DBIM 3.0). Dr Samir V Kamat, Secretary DD R&D & Chairman DRDO, launched the new website in the presence of DGs, Corporate Directors and senior scientists at DRDO Hqrs, Delhi.

The new website features an enhanced interface with simplified navigation, responsive design for multiple devices, and enriched content covering DRDO's laboratories, technologies,



publications, and achievements.

It also integrates interactive features for easier access to information for researchers, industry partners, and the general public.

The new website also have the provision of pushing content from live feed from PMO and is designed as per the government guidelines.

Speaking on the occasion,

Dr Samir V Kamat, Secretary DD R&D & Chairman DRDO emphasized that the revamped website reflects DRDO's commitment to transparency, outreach, and digital excellence, making information about defence R&D initiatives more accessible. The platform will also serve as a bridge for collaboration with academia, industry, and young innovators.

INDUSTRY-ACADEMIA MEET 2025 AT CHESS

The Centre for High Energy Systems & Sciences (CHESS), Hyderabad, organised the CHESS-Industry-Academia Meet 2025 on 1 August 2025. More than 45 industries encompassing various PSUs and private industries, and more than 30 academics from various IITs, IISc, central universities, and other premier institutes involved with CHESS participated in the meet. DS & DG (ECS) was the Chief Guest and DS & DG (TM) was the Guest of Honour during the event. Director, HEMRL; Director, DIITM; and Director, DFTM were also present during the occasion. Dr KK Rai, Sc 'G', welcomed all the participants and dignitaries. Director, CHESS during his address, stressed the importance of this event as a platform for interaction and understanding each other's work areas, fostering future collaborations for realisation of DEWs. Director, DIITM in his address, highlighted the importance of industries for DRDO and policies. DG (TM)



addressed the gathering and briefed about the initiatives taken by DRDO HQrs for the promotion of industry-academia interaction with DRDO and future events at the technology cluster level.

DG (ECS) addressed the participants, highlighting the need for robust ecosystems of industries and academia with synchronized

and coordinated efforts towards the development of state-of-the-art laser DEW systems in our country.

Shri JV Choudhary, Sc 'F', CHESS, briefed the gathering about the exhibition set up by industry and academia partners and invited all for an interactive walk through the exhibition.

NATIONAL SCIENCE EXHIBITION AT KOLKATA

Directorate of Human Resource Development (DHRD), DRDO HQrs, along with Integrated Test Range (ITR), Chandipur, as the nodal laboratory, Proof and Experimental Establishment (PXE), Balasore, and DYSL-SM, Hyderabad, participated in the 28th National Science Exhibition, organized by the Central Calcutta Science & Culture Organisation for Youth at Salt Lake City, Kolkata,





during 21-24 August 2025. The exhibition's theme was 'Pledges to Make India a Golden Nation.' The exhibition aimed to inform students, youth, academicians, scholars, scientists, and the general public about the latest developments and achievements in various scientific fields. Along with DRDO, the exhibition featured

notable institutions like the Indian Armed Forces, Indian Navy, Air Force, Indian Ordnance Factories, CSIR, ICMR, MeitY, and CMFRI. Models of products developed by DRDO, like Aakash, Agni, BrahMoS, Pinaka, and ATAGS, were displayed in the DRDO stall that made a lot of students take keen interest in DRDO. DYSL-SM

exhibited prototypes for auxetic structures, terrestrial millibots, flapping wing micro air vehicles, and thermoelectric panels for stealth applications. Shri KNS Pavan Kumar, Sc 'C' and Shri Arijit Murmu, Sc 'B' from DYSL-SM attended the event. Hon'ble MP Shri Kirti Azad presented the award to the DRDO team.

HAR GHAR TIRANGA-INDEPENDENCE DAY CELEBRATIONS

CAIR, Bengaluru

The Centre for Artificial Intelligence & Robotics (CAIR), Bengaluru, celebrated the 79th Independence Day on 15 August 2025 with lots of enthusiasm. The event started with flag hoisting by Director, CAIR followed by the national anthem. Dr Rituraj Kumar, OS & Director, CAIR, addressed the gathering and distributed merit awards to the wards of CAIR employees. All officers and staff of CAIR



enthusiastically celebrated the "Har Ghar Tiranga" during 12-15 August 2025 by hoisting the Tiranga at their residential premises and uploading selfies with the Tiranga on www.harghartiranga.com.

DIPR, Delhi

The Defence Institute of Psychological Research (DIPR), Delhi, celebrated the 79th Independence Day on 15 August 2025. DIPR hoisted the national flag, followed by the rendition of the national anthem in the presence of senior scientists and officers from the armed forces.



Marking the significant occasion, invoking a sense of patriotism among the citizens, and honoring bravehearts who protect our country, the 'Har Ghar Tiranga' campaign was wholeheartedly celebrated by the enthusiastic members of the DIPR family.

DRDO HQrs, Delhi

The Ministry of Culture and the Ministry of Tourism, Government of India, had launched the patriotic initiative "Har Ghar Tiranga" under the aegis of Azadi Ka Amrit Mahotsav. The campaign aimed to inspire every citizen to proudly hoist the national flag, the Tiranga, at their homes and workplaces, reinforcing the spirit of nationhood and unity.

In alignment with this national movement, the Directorate of Management Services (DMS), DRDO, organized a special program on 14 August 2025 at DRDO Bhawan to encourage all officers and staff to actively participate in the campaign and celebrate the glory of our National Flag. The Tiranga is



not just a flag—it symbolizes our nation's sovereignty, sacrifice, and pride. By hoisting it, officers and staff of DRDO reaffirmed their commitment to the ideals of freedom, harmony, and progress.

The event witnessed enthusiastic participation, where the spirit of patriotism and unity was celebrated with pride and reverence. Together, the DRDO fraternity honored the Tricolour and strengthened the message of national integrity.

DMSRDE, Kanpur

Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, celebrated the Har Ghar Tiranga Campaign during 2-15 August 2025. Flags were hoisted at the DMSRDE office premises as well as on the residential buildings located at War Memorial Colony and Raksha Vihar Colony by all the officers, staff, and DSC personnel. Har Ghar Tiranga Rally was also conducted from DMSRDE



Main Gate to Swada Kothi, War Memorial Colony, Cantt, and back under this campaign on 14 August 2025. The event was coordinated by Dr Sunil Kumar, Sc 'D'. The laboratory also celebrated the 79th Independence Day amidst great enthusiasm and patriotic fervor on 15 August 2025. The event commenced with the hoisting of the national flag by Dr Kingsuk Mukhopadhyay, OS & Director DMSRDE, followed by the rendition of the national anthem in the presence of all employees of DMSRDE, DSC Platoon staff, and family members.

MTRDC, Bengaluru

Microwave Tube Research & Development Centre (MTRDC), Bengaluru, observed a vibrant and energetic Independence Day 2025 celebration on 15 August

2025. Dr SK Datta, OS & Centre Head, hoisted the national flag and addressed the gathering. Kid's drawing & colouring event was organised on the eve of the day, and tiny tots participated in fancy dress and singing events as well on the day as part of the celebration.

NMRL, Ambarnath

The 79th Independence Day was celebrated at the Naval Materials Research Laboratory (NMRL), Ambarnath, on 15 August 2025 with a patriotic spirit. The celebrations commenced with Dr Suman Roy Choudhary, OS & Director, NMRL, hoisting the national flag. Director, NMRL wished the august gathering well. A prize distribution ceremony was organized to felicitate the winners of the drawing competition conducted for the children of NMRL employees.



EDITORIAL BOARD MEETING OF DLSJ AT DESIDOC

The biennial Editorial Board Meeting of Defence Life Science Journal (DLSJ), the quarterly research journal of DRDO published by Defence Scientific Information & Documentation Centre (DESIDOC), Delhi, was held on 22 August 2025. The meeting was attended by eminent Editorial Board members from across India, both in person and virtually.

Ms Kiran Chauhan, Director, DESIDOC, welcomed the members and highlighted the importance of enhancing the quality and visibility of the journal. She emphasized the crucial role of the Editorial Board in strengthening policies, processes, and overall impact of DLSJ.

The Board deliberated on key issues, including journal



promotion strategies, enhancing impact factor, future special issues and guest editors, strengthening the peer-review process, and broadening the scope of the journal.

Mr Yogesh Modi, Sc 'F' & Editor,

presented the current status of the journal, including updates on policies, indexing, and Editorial Board activities. The meeting concluded with a vote of thanks by Dr Mohd. Yusuf Ansari, Sc 'G' & Ass. Editor-in-Chief, DLSJ.

LIBRARIANS' DAY CELEBRATION AT ISSA

The Institute of System Studies & Analyses (ISSA), Delhi, celebrated Librarian's Day, commemorating the 133rd birth anniversary of Dr SR Ranganathan, the father of library science in India, on 12 August 2025. The program featured an insightful talk by Shri Sanjay Kumar, Sc 'E' on "Writing High-Quality Research Papers." The session was attended by 40 participants who actively engaged with the speaker and gained valuable insights into enhancing their research writing skills. The event highlighted the



importance of effective research communication and celebrated

the pivotal role librarians play in supporting academic excellence.



CELEBRATION OF NATIONAL TECH. DAY AT CAIR

The Centre for Artificial Intelligence and Robotics (CAIR), Bengaluru, celebrated National Technology Day (NTD) 2025 on 19 August 2025. Dr Rituraj Kumar, OS & Director, CAIR, delivered the welcome address. This was followed by keynote talks by invited guests, Prof. K Thyagarajan (retd.), IIT Delhi, on “Quantum Photonics,” and Sqn Ldr Sameer Joshi (retd.), Newspace Research and Technologies, on “Next Generation Missions and Technologies.” The Technology Day medal and certificate were presented to Shri Neelesh Kumar Tamrakar, Sc ‘F’ by Director,



CAIR and dignitaries. Shri Neelesh delivered an NTD oration on “Secure-SDR Based on Zero Trust Architecture Principles.” Dr S Rakshit, former DG (TM), also graced the occasion.

VISHWAKARMA DAY CELEBRATIONS AT DESIDOC

Defence Scientific Information & Documentation Centre (DESIDOC), Delhi, celebrated Vishwakarma Day with great enthusiasm and devotion at its premises. Vishwakarma, regarded as the divine architect and engineer in Hindu tradition, is worshipped as the patron of craftsmanship, technology, and innovation—values that resonate deeply with DESIDOC’s mission of knowledge and service to the scientific community.

The programme began with a traditional puja ceremony where employees collectively offered prayers for precision, innovation, and safety in work. Ms Kiran Chauhan, Director, DESIDOC, along with senior scientists, officers, and staff, participated



in the rituals and highlighted the relevance of Vishwakarma’s ideals in today’s context of scientific research, engineering, and technology development.

The event concluded with the distribution of prasada, fostering a sense of unity, positivity, and renewed dedication among all participants.

ICC WORKSHOP AND POSH EVENTS

DL, Jodhpur

The Internal Complaints Committee (ICC), Defence Laboratory Jodhpur (DLJ), organised a Poster and Slogan Competition on the theme of the Prevention of Sexual Harassment (PoSH) Act in the month of August 2025. The competitions aimed to spread awareness about the provisions of the PoSH Act and to encourage creative expression among employees. Participants actively showcased their ideas through impactful posters and thought-provoking slogans highlighting the importance of safe, respectful, and gender-sensitive workplaces. Director, DLJ, appreciated the efforts of the participants and felicitated the winners with awards.



DMSRDE, Kanpur

A poster-making and slogan-writing competition was conducted at Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, on 12 August 2025. The sole purpose of the competition was to create awareness and sensitisation of all employees of the establishment about the "Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act," or

POSH Act, 2013". The competition was conducted both in Hindi and English so as to ensure compliance with all the provisions of the Act. All the employees, including both permanent and contract staff, participated enthusiastically. Finally, prizes were distributed to the winners of the poster and slogan competition by Dr Kingsuk Mukhopadhyay, OS & Director, DMSRDE. The event was organised by Dr Jyoti Srivastava, Sc 'G' & Presiding Officer ICC, DMSRDE.



ISSA, Delhi

The Institute of System Studies & Analyses (ISSA), Delhi, organized a lecture on gender sensitization on the POSH Act. Smt. Alka Thakur, Asst. Director (OL), delivered a talk on "Creating Safe Environment at Workplace," through the POSH Act, on 14 August 2025. Poster & slogan competitions were also conducted. Winners of the competitions were felicitated during the event.



SFC, Jagdalpur

The SFC, Jagdalpur, organized a one-day ICC workshop on 1 August 2025. The theme of the workshop was "Woman Empowerment & Work-Life Balance." All women employees of SFC attended the workshop. ICC chairperson Smt S Sankari, Sc 'G' & Project Director A5 (C), delivered a talk on work-life balance. Smt Sankari focused on the importance of work-life balance in our daily life, especially for working women, for better output and better health. The work-life balance also enhances the quality of life. She explained the concept of 8+8+8, in which 8 hrs are for work, 8 hrs are for sleep, and 8 hrs are for family and other routine work. Smt Chandan Bala Modi, an NGO member of ICC SFC Jagdalpur, delivered a talk on women's empowerment. Shri Khilawan Singh, Sc 'E' & member of ICC, explained the functioning at ICC and shared the message from Dr MVL Ramesh, OS, GM, SFC, that SFC Jagdalpur is committed to providing a safe and healthy working environment. The organization has a well-established framework to receive and resolve the complaint, which falls under the prerogative of the ICC. Smt Shweta Mandavi, Convener, ICC SFC, Jagdalpur, gave the vote of thanks.





DTTC-MSME CONCLAVE: DRDO'S INITIATIVES FOR DEFENCE INDUSTRIAL CORRIDOR, UP

The Uttar Pradesh Defence Industrial Corridor (UPDIC) is a flagship initiative of the Ministry of Defence (MoD), Government of India, and the Government of Uttar Pradesh to promote Make in India and Atmanirbhar Bharat. To accelerate its development, a MoU was signed between the Uttar Pradesh Expressways Industrial Development Authority (UPEIDA) and Defence Research & Development Organisation (DRDO) during the Defence Expo on 7 February 2020 at Lucknow. The MoU mandated the creation of advanced facilities for modeling and simulation, testing and Characterisation, advanced manufacturing, training & skill development, technology incubation, and technical consultancy.

In pursuance of this vision, the Hon'ble Raksha Mantri and Chief Minister of Uttar Pradesh laid the foundation stone of the Defence Technology & Test Centre (DTTC) at Lucknow on 26 December 2021. Spread over 22.4 acres of land at Amausi and Nadarganj, DTTC is designed to provide centralized infrastructure and comprehensive technical support to MSMEs, startups, and defence industries in UPDIC. The center follows an iterative design and development approach—design, build, test, and learn—enabling accelerated product development, faster induction of systems, and reduced turnaround time, thus strengthening India's indigenous defence ecosystem. Presently,

DTTC Lucknow is working as a center under Defence Materials & Stores Research & Development Establishment (DMSRDE), Kanpur.

In line with this mandate, a State Level DTTC-MSME Conclave was conducted on 6 September 2025 for capacity building of regional MSMEs for development of defence industrial corridor in UP. The conclave was inaugurated by the Secretary DDR&D & Chairman, DRDO, in the august presence of DG (NS&M), DG (TM), DG (HR), State General Secretary (Laghu Udyog Bharati), Director (DMSRDE), and Project Director (DTTC). The conclave was attended by more than 100 participants representing 40 MSMEs and 10 startups.

In the inaugural address, the Chairman highlighted DTTC as a visionary initiative of Hon'ble Raksha Mantri, Shri Rajnath Singh, that is now yielding significant results for India's defence manufacturing ecosystem.

The first technical session, a DRDO session chaired by the DG (TM), focused on DRDO initiatives for MSMEs. In this session, four technical talks were delivered from DTTC, DIITM, DTDF, and RCMA, highlighting the DRDO's infrastructure and schemes available to MSMEs. The second technical session, an industry session chaired by the GM (HAL, Lucknow), was based on industrial development and initiatives and outlined their expectations from DRDO. Various regional MSMEs from technical domains such as armor, textiles, composites, and drone technologies made six presentations in this session. At the end of the session, a SIDBI representative presented various financial schemes for MSMEs.

A panel discussion was also conducted where participants engaged in dialogue with eminent members from DRDO and HAL. During the session, a number of queries were addressed by the panel.



RASHTRIYA KARMAYOGI JAN SEVA TRAINING PROGRAM

ISSA, Delhi

The Institute of System Studies & Analyses (ISSA), Delhi, conducted a one-day workshop on the Rashtriya Karmayogi Jan Seva Training Program on 25 August 2025, aimed at fostering a spirit of dedicated public service. The program was led by a group of master trainers Dr SK Das, Sc 'F', Shri Avdhesh Kumar Gautam, Sc 'E', Shri Pankaj Kumar, Sc 'E' and Shri Akash Priya, Sc 'E'—who passionately nurtured a culture of Seva Bhav—the core essence of the Rashtriya Karmayogi Jan Seva initiative. A total of 31 participants engaged throughout the program, contributing to discussions and activities.

SFC, Jagdalpur

A training program on the Rashtriya Karmayogi Mission was held in the month of September for all employees of SFC, Jagdalpur. The training focused on capacity building, ethical governance, and citizen-centric service delivery. The initiative aimed to familiarize officials with the principles of the mission, including the Tree of Fulfilment, Seva Bhaav, and their role in nation building.

The training was given by master trainers Shri Amarjeet Kumar Sc 'F' and Shri Murali Krishna Sc 'C'. They explained that the Tree of Fulfilment symbolizes holistic growth: Outer fruit represent external rewards and achievements, such as recognition, praise, or professional success.



The inner fruit represents the growth of one's character, values, resilience, and empathy that occurs as a result of selfless work. The trunk represents the joy a government official gets due to outer and inner fruits.

Interactive sessions and case discussions helped participants understand how Seva Bhaav can be translated into daily practices that strengthen trust between citizens and the administration.

Speakers also underlined the contribution of every official

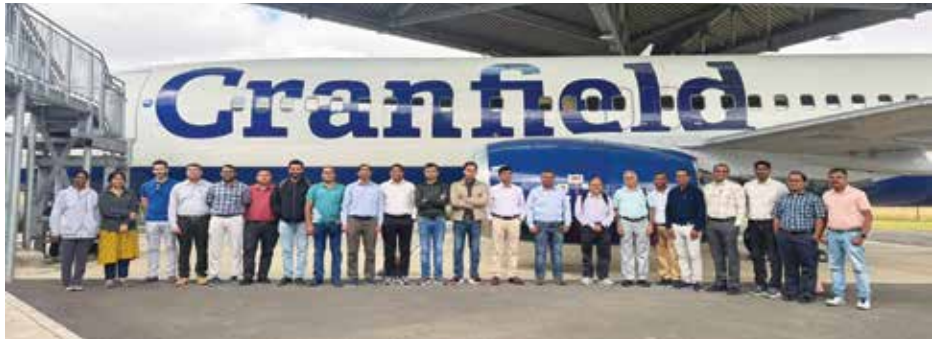
in nation building, noting that effective public service directly contributes to social progress, inclusive growth, and India's long-term development goals. The training encouraged participants to align their individual roles with the broader vision of a capable and responsive government.

Dr MVL Ramesh, GM SFC, appreciated the efforts made by Shri Amarjeet Kumar Sc 'F' and Shri Murali Krishna Sc 'C' and the HRD team for organizing a successful training program.



PIONEERING LEADERSHIP TRAINING IN DEFENCE MANUFACTURING TECHNOLOGY: LDMT

The Directorate of Human Resource Development (DHRD), DRDO HQrs organized a comprehensive leadership training program on “Leadership in Defence Manufacturing Technology (LDMT)” in collaboration with the National Institute of Advanced Studies (NIAS), Bangalore, and Cranfield University, UK. The program was designed to equip participants with cutting-edge knowledge and leadership skills critical for advancing India’s defence manufacturing sector and foster international collaboration and knowledge in defence technology and management. The training was conducted for 20 DRDO scientists in three rigorous modules spanning a total of 30 days.



Module 1: 21-25 April 2025, NIAS Bangalore: Focused on foundational leadership principles and an introduction to emerging defence manufacturing technology.

Module 2: 30 June 2025 to 18 July 2025, Cranfield, UK: Emphasized advanced defence manufacturing strategies, and international practices.

Module 3: 11-12 August 2025, NIAS Bangalore: A concluding module aimed at synthesizing learning outcomes, leadership application, and future roadmap development. The initiative represents an important move towards building a cadre of skilled leaders ready to spearhead innovation and self-reliance in India’s defence manufacturing landscape.

COURSE ON ADVANCED SOLID PROPELLANT FOR ROCKET MOTORS AT ACEM

Advanced Centre for Energetic Materials (ACEM), Nasik, conducted a three-day course on “Conventional and Advanced Solid Propellant for Rocket Motors” during 6-8 August 2025 to cover conventional and advanced propellant overview, design, and structural integrity of solid rocket motors. Quality control and assurance, NDT, performance evaluation, and safety during propellant production were also covered. The course was inaugurated by Dr BV Paparao, OS & Director, ASL, Hyderabad,



and Shri TV Jagadeeswar Rao, OS & GM, ACEM. During his keynote address, Director,

ASL highlighted wax mandrel development, challenges in aero thermodynamics and scramjet



engines, and the remarkable technological advancement done at ACEM, starting from the processing of 3-ton class motors to 50-ton class motors by introducing new technologies like the dust-free metal powder sieving

system, rotary vacuum dryers, the development of a 5-ton vertical planetary mixer, and the multiple rocket motor casting technique. A total of 48 participants from DRDO, Brahmos Aerospace & SSQAG attended the course.

Shri Arvind Kumar, OS & Director, CFEES, graced the valedictory session as the Chief Guest. Shri RS Patil, Sc 'F' was the Course Director and Md Ziyaur Rahman, Sc 'E' was the Dy. Course Director.

FIRE SAFETY TRAINING COURSES AT PILKHUWA

The DRDO Skill Development Centre, Pilkhuwa, is a premier training and testing institute of the Centre for Fire, Explosive, and Environment Safety (CFEES) to impart a high standard of professional training to the personnel of defence and various government organizations. The Centre has conducted the following two courses during the last two months for Defence Fire Service (DFS) personnel and combatants from the Army, Navy, Air Force, DRDO, and Indian Coast Guard:

□ **Basic Course in Elementary Firefighting** (for combatants) was conducted during 14 July 2025 to 8 August 2025. A total of 28 participants successfully qualified for the course. The objective of the course was to make combatants confident in operation and maintenance for first aid and firefighting equipment. The course



content included conventional firefighting methods, merits, demerits, and applications of the entire range of small extinguishers and equipment and an elementary introduction to hydraulics, pumps, rescue equipment, and first aid.

□ **Senior Fire Supervisors' Course** (primarily for DFS officials) was conducted during 7 July 2025 to 29 August

2025. A total of 22 participants from different organisations successfully qualified for the course. The objective of the course was to enhance the career of firefighting professionals to take up the responsibilities as Shift-in-Charge/Fire Supervisor/Station Officer of a Fire Station by imparting them knowledge of fire science.

SAFETY MOCK DRILL

As part of the safety routine to enhance the preparedness of the Microwave Tube Research & Development Centre (MTRDC), Bengaluru personnel for emergency exit from the premises during fire accidents, a mock drill was conducted on 14 August 2025 at the Centre.





HANDS-ON TRAINING ON BASIC LIFE AND BASIC DISASTER LIFE SUPPORT

A two-day hands-on training program on Basic Life Support (BLS), certified by the American Heart Association (AHA), and Basic Disaster Life Support (BDLS), certified by the National Disaster Life Support Foundation (NDLSF), was organised by the Institute of Nuclear Medicine & Allied Sciences (INMAS), Delhi, in collaboration with the Directorate of Management Services (DMS), DRDO, at DRDO Bhawan during 12-13 August 2025.

The training aimed to enhance the preparedness and emergency response skills of DRDO officers and staff, equipping them with life-saving techniques and disaster management competencies. The course content included:



Cardiopulmonary Resuscitation-Techniques to revive individuals in cardiac emergencies; Automated External Defibrillator-Safe and effective usage for life-threatening arrhythmias; Mass

Triage-Prioritizing patient care during large-scale emergencies; Emergency Response-Coordinated actions to handle critical situations; PPE-Proper use for safety.

PROGRAM ON BLOCKCHAIN TECH. AT DTTC

A two-day skill development program on "Blockchain Technology: Concepts & Applications" was conducted during 21-22 August 2025 at Defence Technology & Test Centre (DTTC), Lucknow. The program was formally opened with the keynote address by Dr JN Srivastava, Associate Director, DMSRDE Kanpur, highlighting the importance of blockchain technology in the context of Defence. The program sessions, following the inaugural event, engaged 23 participants from emerging local industries, as well as academia and DRDO laboratories in the Kanpur and Lucknow regions. These



sessions provided participants with the opportunity to explore the blockchain technology field in depth, fostering learning, collaboration, and knowledge sharing across this cutting-edge domain.

The program sessions were led by eminent experts from DRDO

laboratories such as SAG, Delhi, and DMSRDE, as well as academia, including HBTU Kanpur, BBAU, and IIIT Lucknow.

Prof. (Dr) Anita Yadav, Harcourt Butler Technical University (HBTU), Kanpur, was the Chief Guest during the valedictory session.



STRATEGIC ELECTRONICS SUMMIT 2025

The 14th annual event of the Strategic Electronics Summit (SES) 2025 focused on the defence and aerospace electronics sectors in India, held on 7-8 August 2025, and was organized by the Electronic Industries Association of India (ELCINA). The Summit featured an exhibition, a conference, technology sessions by institutions like GAETEC and SAMEER, and vendor development programs by defence PSUs such as BEL and HAL.

DG (ECS) cluster, was conferred with a Special Jury Award during the Summit. The award recognizes the cluster's exemplary contributions in the field of R&D, design, and manufacturing showcasing innovative approach and excellence in developing



critical systems for India's defence and security.

COURSE ON RECENT ADVANCEMENTS IN CHEMICAL-BIOLOGY APPLICATIONS AT INMAS

Institute of Nuclear Medicine & Allied Sciences (INMAS), Delhi, conducted a three-day course on "Recent Advancements in Chemical-Biology Applications for Enhancing Troop Efficiency" during 20-22 August 2025. The event was inaugurated with the release of the CEP booklet by Dr Sudhir Chandna, OS & Director, INMAS, in the presence of Dr Vinod Kumar, Sc 'F' & Head, CBRN Defence; Dr Himanshu Ojha, Sc 'F' & Course Director and Dr Rajeev Goel, Sc 'F' and Dr Pradeep Goswami, Sc 'E', Course Coordinators. The program drew enthusiastic participation from various DRDO laboratories, including R&DE(E),



CFEES, DIPAS, DEBEL, and INMAS. Distinguished experts from INMAS, along with eminent

academicians from Jawaharlal Nehru University and the University of Delhi.



COURSE ON AEROSPACE QUALITY MANAGEMENT SYSTEMS AT CEMILAC

A six-day training course on AS-9100D, “Aerospace Quality Management Systems,” was organised by the Centre for Military Airworthiness & Certification (CEMILAC), Bengaluru, during 18-23 August 2025 as part of an upskilling program. The course was conducted in two modules: a three-day internal auditor training and a further three-day implementation training with the aim of facilitating airworthiness & certification of aerospace and defence applications.

The course content included audit program setup, audit planning, execution, etc. The second three-day module focused on the implementation of AS-9100D towards quality management systems. Special



attention was paid to integrate Design Organisation Approval Scheme (DOAS) requirements inline with international AS-9100D standards.

A total of 34 officers were trained by Shri Karthi Thiyagarajan, lead consultant of Nucleus

Consultants, Chennai. This course enhanced participants’ skills to perform effective internal audits, implement process-based quality systems, and reinforce CEMILAC’s role in ensuring airworthiness, safety, and reliability in defense aerospace projects.

COURSE ON COMPUTERIZED MILITARY WARGAMING

The Institute for Systems Studies & Analyses (ISSA), Delhi, organised a course on ‘Computerized Military Wargaming’ during 18-22 August 2025. The objective of the course was to provide the participants with a comprehensive understanding of computerized military wargaming, its principles, applications, components, and benefits in defence planning and training. A total of 20 participants attended the course. Speakers from ISSA, service officers, and academia delivered the lectures



during the CEP. Shri Amit Dhawan, Sc ‘G’, was the course Director and

Shri Anurag Pathak, Sc ‘F’ was the Deputy Course Director.



INDIAN NAVY- CEMILAC INTERACTION

The 3rd Indian Navy-CEMILAC interaction was organised at NFTS, INAS 552, Goa, on 25 July 2025 under the chairmanship of Mr APVS Prasad, OS & CE(A), Centre for Military Airworthiness & Certification (CEMILAC), Bengaluru. The agenda of the interaction was operationalization of the newly formed CEMILAC Centre RCMA (Goa) and reviewing certification of ongoing naval projects.

The meeting was attended by representatives from HQGNA, INS Hansa, NAY (Goa), NFTS, NHQ/ DNAS & HQNA. The CEMILAC delegation comprised of Dir (A/C), Dir (Mat & PI), Dir (Sys), GD (MS), & RDs of RCMA (Nasik, Kanpur, & Helicopters).

The meeting commenced with an address by CE(A), CEMILAC,



highlighting reforms in CEMILAC towards certification. Dir (Sys) also gave a lecture on e-Certification. Various lectures were organized by AeSI, Goa, under the aegis of the material organisation, the Indian Navy, on certification-related topics with the aim of familiarizing the industry with the airworthiness certification processes and procedures.

The outcome of the Indian Navy-CEMILAC meeting was positive and paved the way towards the arrangement of land by the Navy for the construction of an office building & residential accommodations for RCMA (Goa) within INS Hansa. As an interim measure, Navy also agreed to provide office space in the MSMSE building in the UWR complex.

INDUSTRY INTERACTION ON E-CERTIFICATION

Centre for Military Airworthiness & Certification (CEMILAC), Bengaluru, has developed an e-Certification System (e-CS) to facilitate a web-based interface for design agencies over the Internet & Intranet. The objectives of the system are:

- Online interaction with industries without direct human intervention.
- Time-bound and transparent certification process.
- Streamlined, balanced, and monitored workflow within CEMILAC and its 18 RCMA.
- Real-time monitoring by user & certification agencies at each level.



On 2 August 2025, CEMILAC conducted an industry interaction on the e-certification system at HAL, Bangalore, with the participation of approximately 250 members from DRDO, HAL, BEL, NAL, ADA, services, and various private industries.

The Chief Guest of the event was Shri Ajay Kumar Srivastav, Director (R&D), HAL, along with Air Commodore Harpal Singh, CSDO, New Delhi, as Guest of Honour and Mr APVS Prasad, Sc 'H' & OS, CE(A), CEMILAC, in attendance.



COURSE AT CABS

Course on Selection, Acquisition, and Modification of Platform for Manned Airborne Surveillance Systems

A five-day course on “Selection, Acquisition, and Modification of Platform for Manned Airborne Surveillance Systems” was conducted during 28 July 2025 to 1 August 2025 at the Centre for Airborne Systems (CABS), Bengaluru. The course began with the importance of accurately capturing user needs through PSQR, then moved to covering key technical requirements such as performance, stability, integration challenges and operational constraints, certification processes, and real-world challenges, including those faced by the AEW&C program. Dr K



Tamilmani, former DG (Aero), inaugurated the course as the Chief Guest. Dr Y Purushottam, Sc ‘G’ & Offc. Director, CABS, was the Guest of Honour. In the inaugural speech, the Offg. Director CABS and Chief Guest emphasized the importance of the course as a platform to share knowledge and acquire practical exposure on

DRDO products from the domain experts. The session was attended by 60 officers from the Indian Air Force, the Indian Navy, the Indian Coast Guard, sister laboratories of DRDO, DGAQA, and CABS.

Dr MR Shankar, Sc ‘G’ was the Course Director, and Shri Sunil Kumar Yadav, Sc ‘E’, was the Dy. Course Director.

Workshop on Reservation Matters at CABS

A two-day workshop on ‘Reservation Matters: Handling of Complaints, Conduct of Disciplinary Proceedings’ was organized by the Directorate of Personnel (DoP), DRDO HQrs during 21-22 August 2025 at the Centre for Airborne Systems (CABS), Bengaluru, for interaction with representatives (Liaison Officers/SAOs/AOs) of the laboratories/establishments of DRDO in the Bengaluru region. The workshop was inaugurated by Ms Santhya P, Director, CABS, Bengaluru. The welcome speech was given by Shri Abhinavjeet Ojha, Associate Director, DOP. He expressed his gratitude to Director, CABS for hosting the workshop. The very distinguished faculty members, namely Shri Sandeep Singh, Joint Director, DOP; Shri Pravesh Kumar, Joint



Director, DOP; Shri Manoj Kumar Sharma, SAO-I, IRDE, Dehradun; and Shri SK Srivastava, ex-CAO, delivered lectures on reservation rosters, disciplinary proceedings, implementation of reservation in DRTC cadre, and the role of LO’s, as well as the handling of complaints/representations from NCSC/NCST. Dr Mayank

Dwivedi, OS & DG (HR), delivered the valedictory address, and encouraged the participants to implement the reservation policy in true spirit. The workshop completed with the votes of thanks from Dr SK Dwivedi, Director, DoP, who shared his experiences from earlier workshops conducted at various laboratories of DRDO.



COURSE ON PROJECT MANAGEMENT AT ITM

A three-day course on 'Pre-Project Activities in Project Management (Time Estimation & Cost Estimation)' was organized by the Institute of Technology Management (ITM), Mussoorie, during 20-22 August 2025. The objective of the course was to update the scientists with 'Directives for Project Formulation and Management' with emphasis on pre-project activities, time & cost estimation. A total of 35 scientists from different DRDO laboratories participated in the course.

The course was inaugurated by Shri SP Dobhal, Director, ITM. In his inaugural address, he emphasized the importance of pre-project activities. The program covered the following thrust areas:

- Planning and Management Issues in DRDO Project



- DPFM: Provision of Pre-Project Planning
- Developing Work Breakdown Structure and creating a network diagram with suitable illustrations.
- Estimating Activity Duration and Determination of PDC
- Understanding the algorithm behind Monte Carlo simulation for time estimation software.
- Activity on Cost Estimation and Ascertaining Project Cost with Illustration

The program concluded with a valedictory address by Shri Sangeet, IFA (R&D). Director ITM thanked the participants and assured that their feedback would be given due consideration for deliberation and implementation in future programs.

COURSE ON TRANSLATIONAL GENOMICS AT DIPAS

Defence Institute of Physiology and Allied Science (DIPAS), Delhi, organized a three-day course on "Translational Genomics: Advancing Healthcare through Next Generation Sequencing" during 20-22 August 2025. The course emphasized the importance of next-generation sequencing technique for critical and deeper analysis of human genetic codes and converting this knowledge for tangible use in the field of biomarker discovery, effective drug development, forensic science, and finally personalized medicine and numerous other applications.

The course was conducted under the leadership of Director



DIPAS, Shri Devakanta Pahad Singh, Sc 'G'. Dr K Thangaraj (CSIR Bhatnagar Fellow at CCMB, Hyderabad, and Former Director CDFD, Hyderabad) was invited as the Chief Guest along with Dr DT Selvam, Director, Project Management (O/o DG SSS), as the Guest of Honour. Experts

from various reputed institutes of India, including BHU, AIIMS (Delhi), Jamia Millia Islamia, IIT (Kanpur), DBT, NIB, NIIH, and JNU, were invited as faculty. Dr Yamini Singh, Sc 'F', was the course director and Dr Swati Srivastava, Sc 'F' and Dr Iti Garg, Sc 'F', were the course coordinators.



COURSE ON DRIVING INNOVATION AND EFFICIENCY IN R&D THROUGH KM AT DESIDOC

Defence Scientific Information & Documentation Centre (DESIDOC), Delhi, organised a Continuing Education Program (CEP) on “Driving Innovation and efficiency in R&D through Knowledge Management (KM) to succeed in Global Competitiveness” during 10-12 September 2025. The course's objective was to raise awareness among the DRDO fraternity about the importance of the challenges of R&D sector through KM perspective; understanding the basic and emerging trends in KM and its application for improving the project delivery, fostering



innovation and creating culture of knowledge sharing to enhance the organizational performance.

Dr Yousuf Ansari, Sc ‘G’ and Ms Alka Bansal, Sc ‘G’ delivered the inaugural address. Shri Arvind

Kumar, Sc ‘F’ & Course Director, briefed the participants about the need and purpose of KM to succeed in global competitiveness. Over 24 participants from various laboratories attended the course.

COMMENCEMENT OF DR SOHAN LALL DISTINGUISHED LECTURE SERIES AT DIPR

The Dr Sohan Lall Distinguished Lecture Series commenced on 4 September 2025 at Defence Institute of Psychological Research (DIPR), Delhi, with Prof. Anand Prakash, Emeritus Professor, delivering the inaugural lecture titled “Technology is an edge, whereas psychology enables its wielding effectively,” sharing his deep insights on psychologically driven & technologically enabled solutions.

The event was graced by Dr UK Singh, DS & DG (SSS); Dr Arunima Gupta, former Director DIPR, senior scientists; and service officers. Several distinguished dignitaries, including Dr W Selvamurthy, former CCR&D (LS). Dr Devakanta Pahad Singh,



OS & Director, DIPR, highlighted that the lecture series will provide exposure to our scientists to breakthrough ideas and emerging trends. Dr Singh also shared his thoughts on the occasion and felicitated the guest. Dr Sohan Lall was a visionary and architect who laid the very foundation for R&D in military psychology in India. He

was the torchbearer for founding the Psychological Research Wing on 29 August 1949, which has grown into a full-fledged laboratory, DIPR. Dr Nishi Misra, Addl Director, proposed the vote of thanks and emphasised that the lecture series is set to ignite a vibrant ecosystem of learning, collaboration, and innovation.



INTERACTION CAPSULE PROGRAMME AT DIPR

An interaction capsule program and familiarization visit was organised for senior service officers from Air Force Administrative College (AFAC), Coimbatore, by Defence Institute of Psychological Research (DIPR), Delhi on 21-22 August 2025. The team, led by Gp Capt Tushar Agrawal, VSM, Head Faculty, interacted with senior scientists and was apprised about the various R&D activities of the laboratory. The officers showed keen interest in the diversified R&D initiatives taken by the laboratory and explored collaborative opportunities.



WORKSHOP FOR GROUP A STORE OFFICERS

A two-day workshop for Group 'A' Store Officers was organised by the Directorate of Personals (DOP) DRDO HQrs at the Defence Laboratory, Jodhpur (DLJ). The event witnessed active participation by around 60 officers from various DRDO laboratories across the country. The inaugural session was graced by the presence of Shri VS Shenoi OS & Director DLJ, Dr SK Dwivedi Director DOP, and Sh Maiya Din Director DFMM. The aim of the workshop was to enhance professional knowledge, strengthen procurement and store management practices,



and provide a common platform for interaction and experience sharing among officers. The sessions focused on streamlining

procedures, understanding policy frameworks, and adopting best practices to improve efficiency in logistics and store management.

Recertification of ISO 9001:2015 QMS of DL, Jodhpur

Defence Laboratory Jodhpur (DLJ) has been successfully recertified for ISO 9001:2015 QMS with an augmented scope covering the complete lab. The BIS audit team visited DLJ and audited all the technical directorates and supporting groups. On successful completion of the recertification audit, the audit team recommended renewal of the ISO 9001:2015 QMS license for three years, valid up to 31 March 2028.



DIBT HANDY KITS EMPOWER NAVAL LOGISTICS AT INS HAMLA

In line with the request from INS HAMLA, a team of scientists from the Defence Institute of Bio-Defence Technologies (DIBT), Mysuru, Dr DD Wadikar, Sc'F', Dr Dev Kumar Yadav, and Mr N Madhukar, Sc 'B', conducted an intensive hands-on training programme on handy kits developed by DIBT for rapid and reliable quality assessment of critical ration commodities.

The session witnessed active participation from naval officers, Agniveers, and officers from friendly foreign nations, who will play vital roles in logistics



and ration management during the deployments. The initiative received high appreciation from Commodore Rahul Mahajan, who lauded DIBT's sustained yeoman service to the Indian Armed Forces.

Strengthening this engagement,

Naval HQrs, New Delhi, has requested DIBT to extend similar sensitisation programmes across all Base Victualling Yards for further reinforcing quality assurance, operational readiness, and logistic support systems of the navy.

LECTURE ON VEDIC MATHEMATICS AT DLJ

A special lecture on Vedic Mathematics was organized at the Defence Laboratory, Jodhpur (DLJ), under the aegis of the Works Committee, for the children of employees on 25, August, 2025. The aim of the program was to

generate interest in mathematics among children and introduce them to India's rich mathematical heritage.

Shri Dinesh Kumar Tripathi explained some fundamental sutras of Vedic Mathematics

and demonstrated methods of performing calculations quickly and easily. The children participated enthusiastically in the workshop and asked several questions.





HIGHER QUALIFICATION ACQUIRED



Dr Vivek Srivastava, Sc 'E', Naval Materials Research Laboratory (NMRL), Ambernath, has been conferred the degree of Ph.D by the IIT Bombay, during the 63rd Convocation ceremony. His doctoral research, titled "Combined Physics and Artificial Intelligence-Based Corrosion Fatigue Assessment of Shipbuilding Steels and Weld Joints" presents a pioneering contribution in the field of materials degradation studies.



Dr Prakash Vislavath, Sc 'E', Naval Materials Research Laboratory (NMRL), Ambernath, has been conferred the Ph.D degree by the Defence Institute of Advanced Technology (DIAT), Pune, on 9 August 2025. His doctoral research, titled "Effect of Curative and Filler System on Structural, Molecular Dynamics, and Acoustic Properties of a Model Ionomeric Elastomer," makes a significant contribution to the understanding of advanced polymeric materials and their functional properties. Dr Vislavath has been conferred the degree by Dr Samir V Kamat, Secretary DD (R&D) and Chairman, DRDO.

RAJBHASHA ACTIVITIES

DMRL LAUNCHES HINDI STENOGRAPHY TRAINING FOR HYDERABAD-BASED LABS

On 28 August 2025, the Defence Metallurgical Research Laboratory (DMRL), Hyderabad, organized a Hindi Stenography Training program, the first in a series of sessions planned between August and December 2025 for all Hyderabad-based DRDO laboratories.

The event began with a warm welcome by Shri Pawan Kumar, Assistant Director (Official Language), DMRL, who highlighted the importance of Hindi Stenography Training and the vital role stenographers play in supporting the effective implementation of Rajbhasha across departments.

Guest speaker Shri Santosh Kumar, Assistant Director, Hindi Shikshan Yojana, Department of Official Language, Ministry of Home Affairs, addressed the



participants and shared insights on Rajbhasha policies, rules, and regulations. He explained the relevance of stenography training in central government offices, underlining its necessity for smoother administrative functioning. Shri Santosh also encouraged participants to integrate Hindi into their daily work and offered practical tips

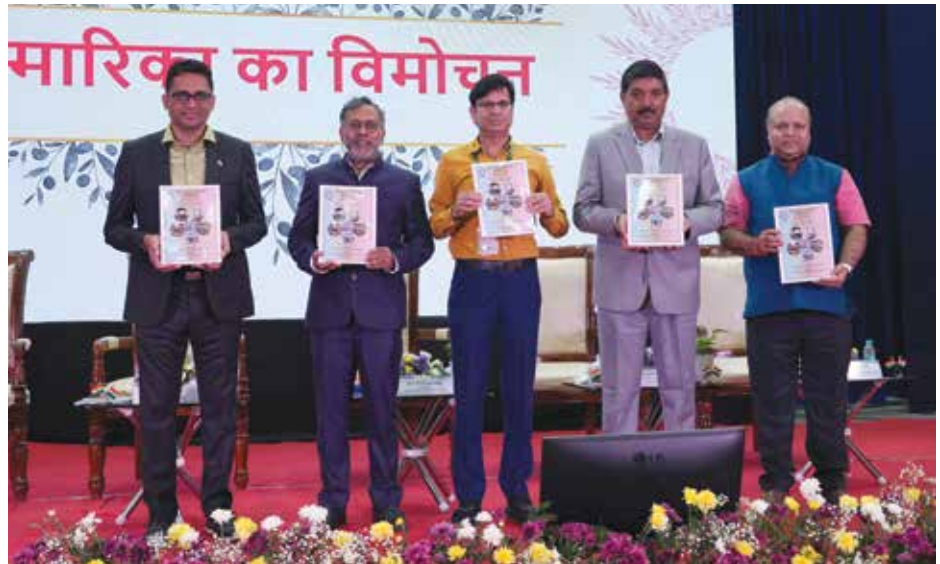
for self-learning through online resources. Engaging examples and open discussions kept the session lively and impactful. A total of 12 stenographers from RCI, DSP, ASL, DRDL, and DMRL enthusiastically took part in the training. The Hindi Stenography classes will continue until 11 December 2025, coordinated by the Rajbhasha Cell of DMRL.



JOINT OFFICIAL LANGUAGE TECHNICAL SEMINAR (AERO CLUSTER) 2025-26

The Official Language Technical Seminar was organized by the Centre for Military Airworthiness & Certification Centre (CEMILAC), Bengaluru, under the aegis of Aero Cluster laboratories on 1 August 2025. Dr K Rajalakshmi Menon, DS & DG (Aero Sys), was the Chief Guest along with Shri Sunil Sharma, Director (DPARO&M), & Shri Sudhir R. Narayan, IDAS, IFA (R&D), Aero, as Guest of Honour. As a special invitee, Shri Anand Munshi, a globally renowned motivational speaker and life coach, was also present for the seminar.

In their address, the dignitaries expressed pride in attending the seminar and expressed the view that language is not a hindrance but a facilitator, with Hindi being a language that connects hearts. In his address, CE (A) expressed his pleasure to host the seminar &



emphasized the usage of Rajbhasha in all official communication. A total of 55 papers were received on the theme "Future Challenges in Design and Certification of Air Systems and Airborne Stores" with sub-themes like the role of certification in the development

of military products, self-reliance in defence aviation-indigenization initiatives, policy and procedures for airworthiness and certification, qualification testing of laboratory systems, and the presence of official language in research and management functions.

HINDI KARYASHALA

DESIDOC, Delhi

A Hindi Karyashala was organised by Defence Scientific Information & Documentation Centre (DESIDOC), Delhi, on 8 September 2025. Dr Devesh Nath Tripathi, Sc 'F', Defence Institute of Psychological Research (DIPR), Delhi, was invited as the guest speaker. During his lecture, he spoke about "Hindi Pustake aur Rajbhasha Niyamavali". All officers and staff of DESIDOC attended the karyashala.





DMSRDE, Kanpur

The second Hindi Karyashala (FY 2025-26) on 'Vetan Nirdharan Evam Vibhagiya Padonnati Niyamavali Tatha Mansik Tanav Prabandhan Ke Saral Upay' was organised by Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur on 25 August 2025. The Karyashala was inaugurated by Dr Kingsuk Mukhopadhyay, OS & Director, DMSRDE. Dr Govind Kumar, SAO-I from DIPR, Delhi, was the invited speaker. In his inaugural address, Director appraised about the Rajbhasha activities ongoing in the laboratory. Dr Govind Kumar spoke about DPC rules, Art. 309: Guiding principles for



promotion, erroneous promotion, refusal of promotion, pay fixation, etc. Shri Harikesh, Admin Officer, delivered the vote of thanks.

NSTL ORGANISES HINDI FORTNIGHT CELEBRATION-2025

The Naval Science and Technological Laboratory (NSTL), Visakhapatnam, celebrated Hindi Fortnight during 22 August 2025 to 11 September 2025. The Chief Guest Dr HN Das, Sc 'H' & Officiating Director, NSTL, addressed the gathering and emphasized the use of official language Hindi, in daily official correspondence. The Director also explained the importance of Hindi in maintaining confidentiality in our defence research. Various competitions were organized which were directly related to government work or to improve the skill of writing, reading or speaking Hindi such as Hindi essay writing, story writing, noting, drafting, translation, Hindi word puzzle, Kavita path, dictation,



Hindi extempore speech, poster making and quiz competition. Dr Abraham Varughese, OS graced the occasion as Chief Guest during the closing ceremony. He spoke about the importance of Hindi Diwas and Hindi Fortnight and highlighted the importance of

Official language Hindi in the unity and development of the country.

Shri Pradeep Kumar Garu, Sc 'F' & Chairman, Hindi Fortnight Celebration in his speech conveyed his appreciation to all the participants and the organising team.



North Zone Football Tournament

DRDO North Zone Football tournament was organized at Defence Laboratory, Jodhpur (DLJ), during 3-5 September 2025. Seven teams from north zone laboratories participated in the tournament. The tournament was inaugurated by Shri VS Shenoi OS & Director DLJ. DEAL, Dehradun won the tournament.



North Zone Chess Tournament at DEAL

Defence Electronics Applications Laboratory (DEAL), Dehradun organised the DRDO North Zone Chess Tournament 2025 during 27-29 August 2025. Shri Manoj Kumar Dhaka, OS and Director, DEAL inaugurated the tournament. 77 participants from various DRDO laboratories of the North Zone participated in the tournament. TBRL, Chandigarh, was the first and DMSRDE, Kanpur was the runner up. Dr Raghvendra Sahai Saxena, Sc 'G' won gold medal and also 'the best sports person of the tournament' award.



Central Zone Chess Tournament at PXE

Proof and Experimental Establishment (PXE), Chandipur, organized the Central Zone Chess Tournament during 19-21 August 2025. The event was inaugurated by Shri Subodha Kumar Nayak, OS & Director, PXE, and was graced by the presence of Director, ITR, and the Chairman of the DRDO Central Zone Sports Council, Nine laboratories participated in the tournament, namely, PXE, ITR, DRDL, DLRL, RCI, DMRL, NSTL, EMU, and SFC.

In the Men category, Shri Sabuj Nandy, TO 'C', ITR, emerged as the winner, while Shri Krishna Kumar, TO 'A', DLRL, finished as the runner-up. In the Women category, Ms Pragya Soni, STA 'B', DRDL, claimed the first position, followed by Ms Laxmi Sahu, TO 'A', DMRL, as runner-up. In the PWD category, Shri K Venkat Ramana, TO 'B', DMRL, became the winner. The Team Championship trophy went to NSTL, with DLRL securing the runner-up position.



National Sports Day Celebration by PXE

Proof and Experimental Establishment (PXE), Chandipur, organized National Sports Day on 29 August 2025 to promote the spirit of fitness, teamwork, and sportsmanship among DRDO employees. As a part of the program, a friendly football match was organized by the Sports Cell of PXE between teams from PXE

and ITR, which brought great enthusiasm and excitement on the ground. Shri Subodha Kumar Nayak, OS & Director, PXE, graced the event with his presence and delivered an inspiring address to all participants, encouraging them to actively take part in sports and physical activities along with their professional activities.





NASHA MUKT BHARAT ABHIYAAN

DMSRDE, Kanpur

Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, celebrated Nasha Mukta Bharat Abhiyaan (NMBA) 2025 on 19 August 2025. Nasha Mukta Bharat Abhiyaan is a national initiative focused on achieving a drug-free India. Dr Kingsuk Mukhopadhyay, OS & Director, DMSRDE, administered the pledge against drugs to all the officers and staff of DMSRDE. Shri Amit Saraiya, Sc 'F', coordinated the event.



DRDO HQrs

The Ministry of Social Justice & Empowerment, Government of India, had launched the nationwide campaign "Nasha Mukta Bharat Abhiyaan" with the objective of creating a healthier, responsible, and drug-free society. In line with this vision, the Directorate of Management Services (DMS), DRDO HQrs, organised an e-Pledge ceremony on 13 August 2025 at DRDO Bhawan. All the officers and staff of DRDO HQrs actively participated and took the e-Pledge as part of their commitment to support the national mission against substance abuse. The event highlighted the resolve of the DRDO fraternity to stand united in the vision of a "Nasha Mukta Bharat Abhiyaan" (Drug-Free India). By participating in this initiative, the officers and staff reaffirmed their dedication to not only remain free from substance abuse themselves but also to motivate others in society to follow the same path.



DSP, Hyderabad

The Directorate of Special Projects (DSP), Hyderabad, organized a mass pledge against drug abuse on 29 August, 2025, under the Nasha Mukta Bharat Abhiyan (NMBA)-2025. Dr Anupam Sharma, DS&Director, during his address appraised the 5th anniversary of this campaign,

which has transformed into a significant national initiative towards building a society free from substance abuse. He further informed that the concept of pledge generates mass awareness about the ill effects of substance abuse and promotes positive behavioral change.





HEALTH AWARENESS PROGRAMS

MTRDC, Bengaluru

A health awareness session was organised at Microwave Tube Research & Development Centre (MTRDC), Bengaluru, on 8 August 2025. At the onset, Dr SK Datta, OS & Centre Head, MTRDC welcomed the invited guests and all the attendees. Prof. (Dr) Prem Kumar A, president, SSB, delivered a talk on “India on the Scale of Emerging Obesity Epidemic”; Dr Himagirish K Rao delivered a talk on “Awareness on Thyroid disorder”; and Dr Sunil Kumar Venkatappa talked about “Common Health Myths with Facts”. Shri AK Agrawal, Sc ‘G’, MTRDC coordinated the event.



NPOL, Kochi

Naval Physical and Oceanographic Laboratory (NPOL), Kochi, arranged an invited talk on “Occupational Health and Safety in Research Settings” by Dr Reena Wilfred, Sc ‘F’, INMAS, Delhi, on 18 August 2025. Dr Reena explained occupational hazards in research settings and lifestyle diseases like high blood pressure, diabetes, heart disease, stroke, and chronic respiratory disease. She also stressed the preventive measures needed to avoid lifestyle diseases. Dr D Seshagiri, Sc ‘H’ & Director, NPOL, graced the occasion with his presence.



Blood Donation Camp at NSTL

Naval Science and Technological Laboratory (NSTL), Visakhapatnam, organized a blood donation camp in collaboration with AS Raja blood bank. Arrangements were made to donate blood for 20 Donors at a time to minimize turnaround time.

A total of 210 persons came forward for blood donation. However, the blood was collected from 166 eligible donors. This sets a new record with highest donors with an increment of 33% from the last year.



TALK ON SELF-MANAGEMENT

A special lecture session on “Self-Management” was conducted at Defence Laboratory, Jodhpur (DLJ), by renowned motivational speaker BK Nidhi from the Brahma Kumaris organisation. In her talk, BK Nidhi highlighted the importance of meditation in reducing stress, improving concentration, and achieving inner peace. She explained how the practice of yoga can bring balance between professional responsibilities and personal well being.



Sh VS Shenoi OS & Director, DLJ, appreciated the efforts of Brahma Kumaris in spreading

awareness on meditation and thanked BK Nidhi for her valuable contribution.

VISITORS TO DRDO LABORATORIES

DIPR, Delhi

Air Vice Marshal Anand Sondhi, AVSM, VM, Assistant Chief of Air Staff (Personnel Officers), visited the Defence Institute of Psychological Research (DIPR), Delhi, on a familiarisation visit on 27 August 2025.

Dr Devakanta Pahad Singh, OS & Director, DIPR, welcomed the dignitary and briefed him on the ongoing and futuristic R&D activities being progressed at the laboratory. ACAS (PO) interacted with senior scientists and appreciated the sustained R&D contributions of the DIPR fraternity.



DEAL, Dehradun

Air Cmde Gopal Krishnan Barathan, Team Director AFPMT (Surveillance), Electronics and Radar Development Establishment (LRDE), Bengaluru, visited Defence Electronics Applications Laboratory (DEAL), Dehradun, on 28 August 2025. The visiting team was briefed on various ongoing IAF projects and familiarized with laboratory facilities. Air Cmde stressed the critical requirement of Airborne SDR and also adhering to the approved project timeline.



HEMRL, Pune

Dr SV Kamat, Secretary DD R&D & Chairman DRDO, visited the High Energy Materials Research Laboratory (HEMRL), Pune, on 1 September 2025. During the visit, presentations were made on gun propulsion technology, advancements for solid rocket propellant, fuel-rich propellant for ramjet propulsion systems,





development of technology for wire-embedded solid rocket propellant, etc .

MTRDC, Bengaluru

An industrial visit was organised at the Microwave Tube Research & Development Centre (MTRDC), Bengaluru, on 19 August 2025. Twenty airmen and 4 directing staff from Tetra School Bengaluru visited the laboratory. Shri Bharat Kumar, Sc 'E,' was the coordinator for the event.



Join DRDO

Defence Research and Development Organisation

Be a part of journey towards Aatmanirbhar Bharat in Defence R&D

Direct Recruitment as Scientist 'B'

Recruitment Process: Done through Recruitment and Assessment Centre (RAC) via open advertisement. GATE scores are considered for short-listing candidates for interviews/written examination.

Essential Qualifications:

At least First division Master's Degree in Science subjects, Mathematics or Psychology or First division Degree in Engineering or Technology or Metallurgy from a recognised University or equivalent. Candidates with medical qualification are also eligible.

Lateral Entry as Scientist 'C' and above

DRDO also recruits scientists at higher levels occasionally to meet the specific requirement of Lab/Estt.

Recruitment Process: Eligible candidates based on educational qualification & work experience in respective grades are selected through RAC.

Requisite Qualifications:

Along with above qualifications, work experience is also required depending on the grade applying to.

Direct Recruitment as STA 'B' & Tech. 'A'

Recruitment Process: Done through Centre for Personnel Talent Management (CEPTAM) via open advertisement through written examination.

Essential Qualifications:

- B.Sc/Diploma in Engineering or Technology recognised by AICTE in the required discipline for STA 'B'.
- 10th+ITI for Technician 'A'.

For more details visit

www.drdo.gov.in / www.rac.gov.in

DRDO Newsletter Wishes its Readers

Happy Diwali