

## DRDO SUCCESSFULLY CONDUCTS FLIGHT-TESTS OF PRALAY MISSILE





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# DRDO SUCCESSFULLY CONDUCTS TWO CONSECUTIVE FLIGHT-TESTS OF PRALAY MISSILE

Defence Research & Development Organisation (DRDO) conducted two consecutive successful flight tests of the Pralay missile from Dr APJ Abdul Kalam Island off the coast of Odisha during 28-29 July 2025. The flight tests were carried out as a part of user evaluation trials to validate the maximum and minimum range capability of the missile system. The missiles precisely followed the intended trajectory and reached the target point with pinpoint accuracy, meeting all the test objectives. All subsystems performed as per expectations, which were verified using test data captured by various tracking sensors deployed by Integrated Test Range (ITR), including instruments deployed on a ship positioned near the designated impact point.

Pralay is an indigenously developed solid propellant quasi-ballistic missile employing state-of-the-art guidance and navigation to ensure high precision. The missile is capable of carrying multiple types of warheads against various targets. The system has been developed by Research Centre Imarat (RCI) in collaboration with other DRDO laboratories, viz., Defence Research & Development Laboratory (DRDL), Advanced Systems Laboratory (ASL), Armament Research & Development Establishment (ARDE), High Energy Materials





Research Laboratory (HEMRL), Defence Metallurgical Research Laboratory (DMRL), Terminal Ballistics Research Laboratory (TBRL), Research & Development Establishment R&D (E), ITR, etc.; industry partners, viz., Bharat Dynamics Limited & Bharat Electronics Limited and many other industries; and MSMEs.

The flight tests were witnessed

by senior scientists of DRDO, representatives of the users from the Indian Air Force and the Indian Army, as well as industry representatives.

Hon'ble Raksha Mantri Shri Rajnath Singh has complimented DRDO, the Armed Forces, and the industry for the successful flight tests. The missile equipped with modern technologies will give a

further technological boost to the Armed Forces against threats, he said.

Secretary, DD R&D & Chairman DRDO Dr Samir V Kamat, congratulated the teams, stating that the successful completion of these phase-1 flight tests paves the way for induction of the system into the Armed Forces in the near future.

## DRDO CONDUCTS SUCCESSFUL FLIGHT-TRIALS OF ADVANCED UNMANNED AERIAL VEHICLE LAUNCHED PRECISION GUIDED MISSILE-V3

As a major boost to India's defense capabilities, DRDO has successfully carried out flight trials of the Unmanned Aerial Vehicle Launched Precision Guided Missile (ULPGM)-V3 at the National Open Area Range (NOAR) test range in Kurnool, Andhra Pradesh. The missile is an enhanced version of the ULPGM-V2 missile developed and delivered by DRDO earlier.

The ULPGM-V3 is equipped with a high-definition dual-channel seeker that can strike a wide variety of targets. It can be fired in plain and high-altitude areas. It has day-and-night capability and a two-way data link to support post-launch target/aim-point updates. The missile is equipped with three modular warhead options: anti-armor to destroy modern-age armored vehicles equipped with Rolled Homogeneous Armor (RHA) with Explosive Reactive Armor (ERA); a penetration-cum-blast warhead with anti-bunker application; and



a pre-fragmentation warhead with a high lethality zone.

The missile is jointly developed by DRDO laboratories, namely Research Centre Imarat (RCI), Defence Research and Development Laboratory (DRDL), Terminal Ballistics Research Laboratory (TBRL), High-Energy Materials Research Laboratory (HEMRL), Integrated Test Range (ITR), and Defence Electronics

Research Laboratory (DLRL). The present trials were carried out for the anti-armor configuration.

The missile was released from a UAV, which is indigenously developed by an Indian start-up—Newspace Research Technologies, Bengaluru. DRDO is actively pursuing integration of ULPGM weapons with long-range and high-endurance UAVs from several other Indian companies.



Development cum Production Partners (DcPPs)—Adani Defence and Bharat Dynamics Limited, Hyderabad—and 30 MSMEs/start-ups contributed to making this unique project a grand success.

Hon'ble Raksha Mantri Shri

Rajnath Singh has congratulated DRDO and the industry partners, DcPPs, MSMEs, and start-ups for the development and successful trials of the ULPGM-V3 system. He termed the success as proof that the Indian industry is now ready to absorb and produce

critical defence technologies.

Secretary, Department of Defence R&D and Chairman DRDO Dr Samir V Kamat congratulated the teams, DcPPs, and start-ups and said that the development of such a weapon is the need of the hour.

## DEMONSTRATION OF TWIR TO NDRF, CAPFS & DELHI POLICE AT DELHI NCR

The Directorate of Low Intensity Conflict (DLIC), DRDO HQs organized the demonstration of Electronics and Radar Development Establishment (LRDE), Bengaluru, developed Through Wall Imaging Radar (TWIR) to the National Disaster Response Force (NDRF), Central

Armed Police Forces (CAPFs), and Delhi Police during 11-12 June 2025 at various locations in Delhi NCR. TWIR is a sensor used for detection and location of static and moving targets, especially human beings behind walls.

The radar can image in real time the scenario behind the wall,

identify the number of people and their location behind the wall, study their activity patterns, and thus help in identifying a hostage scenario behind the wall. Police, CAPFs, and NDRF expressed interest in the induction of the system.





## HANDING OVER OF LATOT & TECHNOLOGY TRANSFER DOCUMENT

The Centre for Fire, Explosive & Environment Safety (CFEES), Delhi, has developed a 'Wild Land Firefighting Suit' that offers the necessary protection (to fight the wild land fire) without compromising on the wearer's comfort. The Wildland Firefighting Suit (WFFS) developed by CFEES is a single-layered suit and conforms to the protection levels mandated in ISO 16073 – Part 3, in totality. The use of a high content of indigenous fire-retardant fibers in the fabric used to fabricate the suit is the USP of this development, since it is an important step in the indigenisation of these suits and a major step forward towards self-



reliance.

The handing over of LAToT and the technology transfer document of WFFS, in the presence of Shri Arvind Kumar, OS & Director CFEES, and senior scientists of

CFEES, was conducted on 18 July 2025 at CFEES. The technology was transferred to two industry partners, viz. M/s Arrow Garments Tirupur and M/s System 5S, Chennai.

## DMSRDE TRANSFERRED KEY TECHNOLOGY OF SMSCN

Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, has developed a product named 'Synthetic Multi Spectral Camouflage Net (SMSCN)'. SMSCN for flat or forest areas, has been created to make it harder for detectors that work in visual, near infrared, thermal, and microwave ranges to spot military objects. The technology was transferred to M/s Kusumgar Corporates Private Limited, Mumbai. Dr Kingsuk Mukhopadhyay, Director, DMSRDE, formally handed over the license agreement during an event held at DMSRDE





on 7 July 2025 to the industry. The document was received by Shri Janmejay Pandey, Business Development Manager, and Shri

Sanjay Shrivastav, Consultant of the company, in the presence of Dr JN Srivastava, Associate Director-I; Shri Alok Kumar Dixit,

Associate Director-II; Shri Amit Saraiya, Sc 'F'; Dr Himanshu B Baskey, Sc 'F'; Dr Mohit Katiyar, Sc 'E', and Shri Omdev, Sc 'E'.

## DEBEL TRANSFERS SOLDIER SUPPORT SYSTEM TECHNOLOGIES TO INDUSTRIES

Defence Bio-engineering and Electromedical Laboratory (DEBEL), Bengaluru, in the recent past (Year 2025) handed over Transfer of Technology (ToT) for five important technologies, which were indigenously designed and developed for soldier support. The systems have been developed in accordance with qualitative requirements projected by Users and are aimed at enhancing the

soldiers performance capabilities.

These technologies have been indigenously developed by DEBEL, a premier DRDO laboratory specialised in aeromedical and biomedical technologies. DEBEL has signed a total of 8 Licensing Agreements for Transfer of Technology (LAToTs), for 05 technologies, since 1 January 2025 to till date generating total a ToT fee of Rs. 35.8 Lakh and

Royalty of Rs. 5.08 Lakh. The ToT documents were formally handed over to representatives from the respective industry partners by Shri Rahul Rasgotra IPS, Director General, Indo Tibetan Border Police (ITBP) and Shri Arun Chaudhary, Director, DIITM, DRDO HQrs, Delhi on the occasion of 43rd DEBEL Foundation Day celebrations.

Sl No.	Technology	ToT Partners
1.	Passive Exoskeleton for Augmentation & Rapid Logistics (PEARL)	i) M/s Zuti Engineering Industries, Medchal (17.02.2025)
		ii) M/s Vega Aviation Products Pvt Ltd., Belagavi (17.02.2025)
2.	NBC Gloves Mk-II	i) M/s Shakti Engineering Industries Pvt Ltd., Gwalior (22.05.2025)
		ii) M/s Vijay Sabre Safety Pvt Ltd., Mumbai (04.06.2025)
3.	NBC Overboots Mk-II	i) M/s Shakti Engineering Industries Pvt Ltd., Gwalior (22.05.2025)
		ii) M/s Vijay Sabre Safety Pvt Ltd., Mumbai (04.06.2025)
4.	NBC Mask Mk-II (with Integrated Hood Mask Mk-II)	M/s Venus Safety and Health Pvt Ltd., Navi Mumbai (06.08.2025)
5.	Fire Retardant Anti-G Suit	M/s Frontier Protective wear Pvt Ltd., Kolkata (21.07.2025)

These ToTs are the testimony of DEBELs commitment towards enabling Atmanirbharta leading to Viksit Bharat-2047.



## INAUGURATION OF DATA CENTRE AT CAMS

Dr Upendra Kumar Singh, DS&DG (SSS), in the presence of Director, DGRE, and Brig. Arun KD, ADG, Military Survey, inaugurated the Data Centre at 12 GASL PL, Centre for Automated Military Survey (CAMS) Premises, Military Survey (MS), New Delhi. The center provides enterprise GIS capabilities and aims to establish Spatial Data Infrastructure at the user site to host the geospatial data created and managed by MS. Dignitaries were briefed about Web geo-portal software and hardware deployed at the Data Centre. DG (SSS) congratulated both DGRE and MS and suggested users to use the software extensively for its intended applications.



## INAUGURATION OF FIRST HIGH-THROUGHPUT RADIATION BIO-DOSE LAB (HIRAD)

Dr Samir V Kamat, Secretary DD R&D & Chairman DRDO, inaugurated the state-of-the-art High-Throughput Radiation Bio-Dose Laboratory (HiRAD) at the Institute of Nuclear Medicine and Allied Sciences (INMAS), Delhi, on 23 July 2025. This cutting-edge facility represents a major improvement in India's preparedness for radiological and nuclear emergencies.

The facility is built to quickly measure how much radiation people have been exposed to using advanced biological techniques, making it a national resource for understanding radiation's effects on health. With the ability to quickly handle many biological samples, it offers essential help for



medical assessments, estimating radiation exposure, and making treatment choices during radiation emergencies, like nuclear accidents or dirty bomb events.

The inauguration reaffirms

DRDO's commitment to building robust national capabilities for nuclear and radiological exigency management and positions INMAS as a central hub for radiobiological research, response, and resilience.



## CASDIC RANGE ON WHEELS (ROW) FACILITY

Conflicts/battles are always won by the side that has the latest or secret technology the other side doesn't know. In modern conflicts/wars the Electromagnetic Spectrum (ES) has taken over the battlefield. Electronic Warfare (EW) controls and manipulates electromagnetic waves to dominate the battlefield. The power of effective EW usage was demonstrated in operation Sindoor where India completely dominated EW and did not allow any of the enemy drones/missiles to hit the targets.

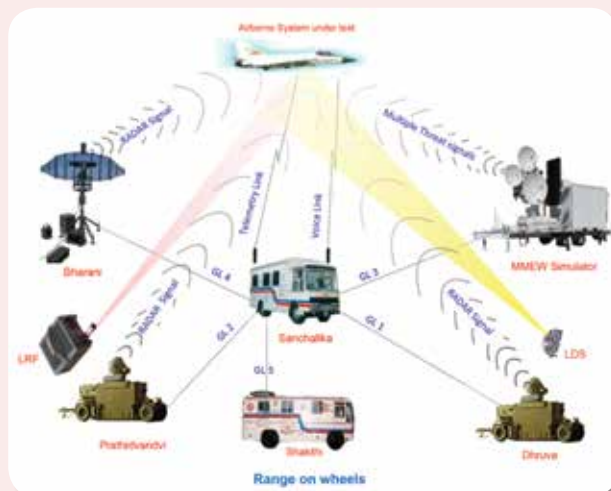
Combat Aircraft Systems Development & Integration Centre (CASDIC) is one of the premier DRDO laboratory working in the field of EW and Avionics established in the year 1986. CASDIC has expertise in EW and avionics. Radar Warners, EW suites, Dual Colour Missile Warning Systems (DCMWS), Mission Computers, Radar Computers, Display Processors, etc. have been designed and successfully delivered to Indian Air Force (IAF). The infusion of state-of-the-art technologies by CASDIC has enhanced the operational capabilities of IAF.

New EW products/systems developed in R&D centres/laboratories/institutes requires extensive testing before offering them to the User. The products/system have to be extensively tested, evaluated, and fine-tuned before handing them to the User. First level of testing will be done inside the laboratories and the systems will be checked and corrected as required. The laboratories will not be able to simulate real world environment completely. In the laboratories tests will be done with the help of test equipment or simulators. After they work satisfactory, there working needs to be proven in real working environment. The real working environment will be completely different from the laboratories and the system has to work in this environment for the user to accept the product.

CASDIC Range on Wheels (ROW) is the facility where, the newly developed EW systems experience the real world environment for the first time with original equipment. ROW is the most prestigious and the first open air range facility in the country for testing Airborne EW systems with more than 30 years of continuous operation. This range facility supports testing, evaluating and fine tuning of

installed airborne EW equipment. The open range supports testing systems like RWRs, jammers, MWS, LWS against various RF, UV and laser threats. The range is offered to organisations outside DRDO and has earned revenue to DRDO.

The range was commissioned in year 1995. ROW division has supported extensive EW trials for Jaguar, Mig-21, Mig-27, Avro, Tejas, ALH, Su-30 Aircrafts. ROW has also extensively supported in MiG-27 upgradation trials including LRMTS trials, bombing trials, etc. in range. ROW has supported



various projects like Dawn, Tranquil, Tempest, Tarang, D-Jag, AEWACS, etc. which were developed by CASDIC, HAL, ADA, ADE, BEL and other DRDO laboratories.

The range is mobile and has supported the EW trials at different locations like Kolar, Hosur, Chitradurga, Bengaluru, etc.

**Range systems:** The main systems of mobile range are 2 flycatcher radars, one Bharani radar, MMEWS, Mission control and data acquisition station Sanchalika and 100 KVA power generator Shakthi. During trials, airborne EW systems like RWRs, Jammers, RWJs, MWS, LWS, etc. are tested in real working environment and evaluated against various RF, laser and UV threats. Radars, EW simulators, data capture systems, data recording and power generators systems support trials. The trials are synched with aircraft using bidirectional communication with the pilot.



**ROW Team:** ROW team under the leadership of Group head has robust members consisting of radar operators, communication operators, data capturing operators, generator operators and mechanical experts who, have supported various airborne trials in hot summer, rainy and windy conditions at different locations.

### Details of the ROW Systems:

**Radars:** ROW has 3 radars Prathidvandi, Dhruva and Bharani.

Prathi and Dhruva are 3D flycatcher radars manufactured by M/s BEL, Bengaluru used as threat and reference radar. The function of Flycatcher is to provide the operator continuously with a picture of the tactical situation in the surrounding air space. It provides timely warning and effective weapon control against flying objects. Flycatcher is a 3D radar which has combined search and track radars. it can search and track targets independently.



Bharani radar is manufactured by M/s BEL, Panchakula. It is a 2D radar used to provide one more target in different frequency band to the testing system.



### TF-ROW has 3 simulators: MMEWS, LDS and Simulator.

#### Mobile Multiband Electronic Warfare Simulator

**(MMEWS):** MMEWS is used to provide multiple threat signals in various frequencies from L to Ka band. It can generate various radar signals simultaneously to the airborne system under test. MMEWS can receive multiple signals and analyse these signals. It is using optics for tracking the target.



#### Long Distance Simulator (LDS):

Live missiles cannot be used for testing the Missile warning system (MWS). LDS is used to simulate the missile signature for the sensors on-board the aircraft to pick up this signature as missile. ROW has supported the testing of MWS systems on transport aircrafts and Helicopters.



#### Laser Range Finder (LRF):

LRF is used to provide a laser threat signal for testing Laser Warning System (LWS). ROW has supported the testing of LWS systems on transport aircrafts and helicopters.



#### Mission Control and Data Acquisition Station:

Sanchalika is mission control and data acquisition station. Sanchalika has live communication links with test aircraft pilot and with all other station operators. ROW uses airband RT set for communication with pilot. Ground communication is done with wired C8 communication equipment or ground-based RT units. Sanchalika has multiple displays for displaying the video data of prathi and dhruva radars. The data from prathi radar and dhruva radar is time stamped with GPS timing displayed and recorded along with audio from pilot and all other stations. This data is provided to the trial user group for offline analysis.



**Power Generator:** Shakthi is 100KVA genset which provides power to the complete range. It has 100 KVA Kirloskar Cummins Generator Model NT 495G. It provides 3 Phase 50Hz supply which powers Sanchalika, MMEWS and even radars.



#### Future Upgrade

Today's war technology has rapidly changed from the past wars. New technologies and systems like drones, stealth, hyper-missiles are being adapted in modern wars. The radar technology has also improved drastically with modern Active Electronically Scanned Array (AESA) radars. Airborne systems like RWR and RWJ have to be tested against modern AESA radars before handing over to the User. In future, the test range will also be upgraded with modern technology like AESA radars, SDRs for communication, telemetry tracking, long range thermal tracking, long range LRF, new data recording and storage system, etc. with the upgraded range ROW will continue support for future flight trials.

*(Combat Aircraft Systems Development & Integration Centre (CASDIC), Bengaluru)*





## DEBEL FOUNDATION DAY 2025

Defence Bioengineering and Electromedical Laboratory (DEBEL), Bengaluru, celebrated its 43rd Foundation Day on 11 July 2025. Shri Rahul Rasgotra IPS, Director General, Indo Tibetan Border Police (ITBP), graced the occasion as the Chief Guest. Dignitaries from DRDO HQrs and other DRDO laboratories were also present during the ceremony. The program started with a welcome address by Dr R Indushekar, Director, DEBEL, followed by a comprehensive review of laboratory activities for the past year and targets/future activities for the forthcoming year. Subsequently, the Chief Guest addressed the gathering and expressed his gratitude to be part of the celebrations. He emphasised on significance of life support systems for their survival and mission accomplishment, citing certain case studies and practical problems faced by troops. Later,



Chief Guest released 'Transfer of Technology Compendium-2025' and 'Compendium of Granted & Filed Patents-2025'. Also, LAToT to various ToT partners was handed over in the presence of Shri Arun Chaudhary, Director, DIITM, DRDO HQrs. Ten ToT documents

pertaining to five technologies were awarded to eight industries. DEBEL has generated a total ToT fee and royalty of 65.6 lakh and 8.19 lakh rupees, respectively, during the past year. Officers and staff who completed 25 years of service in DRDO were felicitated.

## DR ABDUL KALAM DEATH ANNIVERSARY

### CFEES, Delhi

The Centre for Fire Explosive and Environment Safety (CFEES), Delhi, organised an event on 28 July 2025 to mark the 10th death anniversary of Dr Abdul Kalam. Shri Arvind Kumar, OS & Director, garlanded and offered floral tribute to the portrait of Dr Abdul Kalam, and senior scientists and colleagues of the laboratory also paid floral tribute to Dr Kalam. On the day, his life, his inspiring teachings, and his great contribution to nation building were all remembered.



Memories and significant achievements of his life were presented through pictures. On the occasion, the Dr Arvind Kumar shared some of his unforgettable moments with Dr Kalam. A documentary that showed that Dr Kalam's life was full of simplicity, dedication, and scientific temperament was also presented.

### DMSRDE, Kanpur

Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, observed the 10th Death Anniversary of the 'Missile Man of India,' Dr APJ Abdul Kalam, on 28 July 2025. The brass statue of Dr APJ Abdul Kalam at the DMSRDE main gate was garlanded by Dr Kingsuk Mukhopadhyay, Director, DMSRDE. This was followed by a floral tribute by officers and staff of the laboratory.



### NPOL, Kochi

Naval Physical & Oceanographic Laboratory (NPOL), Kochi, observed the 10th remembrance day of Dr APJ Abdul Kalam on 28 July 2025. The statue of Dr Kalam at NPOL façade was garlanded. Shri Mohanan K, Sc 'H', and the Officiating Director, NPOL, briefed

about the importance of the day. Smt Miny G, Sc 'G' & Director (Technologies), highlighted the contributions of Dr APJ Abdul Kalam. Officiating Director, NPOL, and senior officers and employees of NPOL paid floral tribute to the statue of Dr Kalam.

### MTRDC, Bengaluru

The 10th death anniversary of the Hon'ble former President and Missile Man of India, Dr APJ Abdul Kalam, was observed at Microwave Tube Research & Development Centre (MTRDC), Bengaluru, on 27 July 2025.







# INDEPENDENCE DAY CELEBRATION

## ACEM, Nasik

Advanced Centre for Energetic Materials (ACEM), Nasik celebrated 79th Independence Day with great zeal and patriotic fervour on 15 August 2025. Reminiscing the great sacrifices of our freedom fighters, Shri TV Jagadeeswar Rao, General Manager, ACEM hoisted the national flag followed by the rendition of national anthem in the presence of senior scientists, officers, staff, DSC Platoon staff, and family members. Marking the significant occasion, to invoke sense of patriotism among the citizens, celebrate achievements of the nation and honour brave hearts who protect our country, the 'Har Ghar Tiranga' campaigns under the aegis of AKAM was wholeheartedly celebrated by the enthusiastic members of the ACEM family.

General Manager, ACEM also briefed the gathering regarding activities taken up in the year 2024-25. He also urged the scientific community to contribute in the R&D activities for the development of nation.

## CVRDE, Chennai

The 79th Independence Day was celebrated at Combat Vehicles Research & Development Establishment (CVRDE), Chennai, on 15 August 2025. The event commenced with the flag hoisting by Shri J Rajesh Kumar, OS & Director, CVRDE, and was followed by the singing of the national anthem by all attendees. In his address, Director, CVRDE



emphasized the importance of critical defence technologies and requested the CVRDE workforce to continue the commitment and path of progress for achieving the strides of Naya Bharat.

## DESIDOC, Delhi

Defence Scientific Information and Documentation Centre (DESIDOC), Delhi, celebrated the 79th Independence Day with great enthusiasm. Ms Kiran Chauhan, Director, DESIDOC, hoisted the



national flag at main gate of the DESIDOC building followed by the national anthem. In her address, Ms Chauhan extended heartfelt greeting to all employees, inspiring a spirit of patriotism and unity. She also highlighted the significance of the day and paid tribute to the freedom fighters who sacrificed for nation's independence. All officers and staff of DESIDOC took part in the celebration.

### DMRL, Hyderabad

The Defence Metallurgical Research Laboratory (DMRL), Hyderabad, celebrated the 79th Independence Day on 15 August 2025 with great enthusiasm and national pride. The celebrations began with the hoisting of the national tricolour by Dr R Balamuralikrishnan, OS & Director, DMRL, followed by the solemn rendition of the national anthem. He extended heartfelt Independence Day greetings to all employees and their families. He paid tribute to the immense sacrifices made by our freedom fighters, whose sacrifices, courage and vision made it possible for us to live in a free nation today. He also urged everyone to contribute positively, not only towards the nation's development but also towards the well-being of the planet and the global community.

### DRL, Tezpur

Defence Research Laboratory (DRL), Tezpur, celebrated 79th Independence Day with great enthusiasm on 15 August 2025. The Officiating Centre Head, Dr P Chattopdhyay, led the event by hoisting the national flag, followed by singing of the national anthem. The celebration was also observed with the same fervor at the centres





in Salari and Tawang of Arunachal Pradesh.

In his address, the Officiating Centre Head, paid tribute to the freedom fighters who sacrificed their lives for India's Independence. Both employees and their families actively participated in the celebration making the occasion memorable.

### DSP, Hyderabad

Directorate of Special Projects (DSP), Hyderabad celebrated 79th Independence Day on 15 August, 2025 in its office premises. The theme for this year is 'Naya Bharat'. After flag hoisting and national anthem, Dr Anupam Sharma, DS & Director, DSP addressed the gathering and extended greetings to all on the eve of Independence Day. During his speech, Dr Anupam Sharma cherished the beautiful moments of the independent India. He requested all scientists to join hands for strengthening the defence forces and strive hard to achieve Atmanirbhar Bharat. Civilian/Service Officers, staff, and DSC personnel attended the celebrations.

### ITM, Mussoorie

Institute of Technology Management (ITM), Mussoorie, celebrated the 79th Independence Day with great enthusiasm and fervor, inspite of inclement weather condition. Shri SP Dobhal, Director ITM, hoisted the national flag, followed by national anthem. On this momentous occasion, he congratulated all the employees and reflected upon the achievements of our nation during the post independence era with a deep sense of gratitude towards



our forefathers. He reiterated our Hon'ble Prime Minister's vision for securing our nation assets with technology enabled system called 'Sudrashan Chakra'. He exhorted all employees to put their best foot forward in all their role and responsibility. The laboratory enthusiastically celebrated the 'Har Ghar Tiranga'

campaign to commemorate this significant occasion, ignite a sense of patriotism among citizens, and celebrate the nation's achievements.

### NPOL, Kochi

Naval Physical & Oceanographic Laboratory (NPOL), Kochi celebrated "Har Ghar Tiranga"

campaign during 13-15 August 2025. Director NPOL, handed over the national flags to various senior officers and staff during the inauguration. These flags were hoisted at identified locations inside NPOL with utmost care and honour. All the NPOL employees were encouraged for hoisting the national flag in their homes which was met with an overwhelming response. The employees pinned their locations and posted selfies with flag on the website [www.harghartiranga.com](http://www.harghartiranga.com) adhering to the directives given by Govt. of India.

‘Har Ghar Tiranga Walkathon’ a walk by a team of NPOL employees was arranged on 14 August 2025 from NPOL technical campus to Varuna Residential Campus. Walkathon was flagged off by Dr Duvvuri Seshagiri, OS & Director, NPOL from main foyer.

### NSTL, Visakhapatnam

Dr Abraham Varughese, OS & Director, Naval Science & Technological Laboratory (NSTL), Visakhapatnam hoisted the national flag at NSTL premises in the presence of all employees of laboratory. Speaking on the occasion, Director, NSTL illustrated how India has been making remarkable strides in science, technology, defence, space and innovation, and in particular how DRDO is playing pivotal and key role in this journey. NSTL’s recent achievements reflect not just technical excellence but also our unwavering dedication to the nation’s security. He opined that every breakthrough in research must be a step towards strengthening our national security and ensuring peace for



our future generations. On the occasion, patriotic songs were sung by the students of the Ramanath Secondary School.

Members of NSTL Civil Employees Union, Works Committee, officers, staff and their family members participated with patriotic zeal.



## DESIDOC CELEBRATES ITS RAISING DAY

Defence Scientific Information and Documentation Centre (DESIDOC), Delhi, celebrated its 55th raising day on 28 August 2025 with great enthusiasm. The event was inaugurated by Dr Mayank Dwivedi, DG (HR), who delivered the inaugural address. In his remarks, he commended the contributions of DESIDOC in enabling knowledge dissemination across DRDO and highlighted the importance of leveraging emerging tools, AI, network, and multimedia applications to further strengthen scientific communication and collaboration.

He urged all staff to continue innovating and upgrading their

skills to keep pace with the fast-changing information landscape.

Ms Kiran Chauhan, Director, DESIDOC delivered the welcome address and emphasized the DESIDOC's role in providing state-of-the-art library and information services, building digital repositories, and supporting DRDO publications including journals, newsletters, and monographs.

Dr Yousuf Ansari, Sc 'G' & Chairman organising committee, briefed about the activities, initiatives, and achievements of the previous year and future plans to enhance outreach and knowledge management for the organization.

The dignitaries also released the latest DRDO Monograph; DESIDOC Annual Report 2024; and the latest issue of *Technology Focus* on Geo-Hazard Monitoring, Modeling and Mitigation.

Mementos were given to employees who completed 25 years of service at DRDO followed by presentation of commendation cards to employees who delivered exemplary service during the previous year.

The event concluded with a renewed commitment by all staff to uphold DESIDOC's mission of empowering DRDO with timely, reliable, and innovative information services.





## NSTL - INDUSTRY USER MEET

Naval Science & Technological Laboratory (NSTL)-Industry Meet was conducted in collaboration with CII, Visakhapatnam on 13 August 2025. Dr Abraham Varughese, Director, NSTL, graced the event as the Chief Guest. He highlighted the five pillars of growth, economy, infrastructure, systems, demography and demand and stressed the critical role of MSMEs and large industries in advancing marine and defence technologies. Dr GK Sahu, Technology Director, NSTL & Chairman, IIG highlighted successful industry collaborations in developing advanced underwater weapons and naval platforms. Key technologies such as torpedoes, decoys, stealth



systems, and batteries have been successfully transferred to Indian industries.

Mr J Srinivas Raju, Chairman, SIDM, Andhra Pradesh, Mr Satyandra Vadavalli, Convenor, MSME Panel, CII and Mr B Murali

Manohar Rao, Convenor, Startup Panel, CII, Visakhapatnam were present on the occasion. More than 50 Industry Partners participated in the meet and later visited NSTL's Product Display Centre & SMB Facility.

## LIBRARIANS' DAY CELEBRATION AT DESIDOC

Defence Scientific Information and Documentation Centre (DESIDOC), Delhi, celebrated Librarians' Day on 12 August 2025, in honor of the 133th birth anniversary of Padmashri Dr SR Ranganathan, the Father of Library Science in India. On the occasion, a user-engagement program for officers and staff of Delhi-based DRDO laboratories was conducted.

Ms Kiran Chauhan, Director, DESIDOC inaugurated the event by paying a floral tribute to Dr Ranganathan. During her inaugural address, Ms Chauhan underscored the significance of DESIDOC in fostering intellectual growth and inspiring ideas, and creating a pertinent environment for R&D. Ms Kavita Narwal, Sc 'E', enlightened the participants



about various services of DSL. Shri Sudhanshu Bhushan, Sc 'F', emphasised the crucial role of Defence Science Library (DSL) at DESIDOC within DRDO and emphasized the effective

utilisations of the library services for DRDO Users.

Mr Sanjay katare, TO 'B' and Mr Sayan De, TO 'A', demonstrated the unique services provided by DSL.





## DISASTER MANAGEMENT MOCK DRILL AT DEAL

A comprehensive disaster management mock drill was conducted at Defence Electronics Application Laboratory (DEAL), Dehradun, on 14 July 2025, simulating a man-made disaster scenario involving two armed intrusions followed by a fire incident. The exercise was organized under the leadership of Shri Manoj Kumar Dhaka, OS & Director, DEAL and executed meticulously by Shri Sudhir Porwal Sc 'G' Group Director, Security.

Personnel from security staff, DSC, DGR Guards, Fire and Medical department of DEAL actively participated as internal responders while support from



state fire service and local police (via SSP Office, Dehradun) further enhanced the training with the involvement of external agencies.

The objective of the drill was to assess the preparedness, response capabilities and inter-agency coordination during emergencies.

## NATIONAL SAFETY DAY AND FIRE SERVICE WEEK-2025 CAMPAIGNS AT TBRL

Terminal Ballistics Research Laboratory (TBRL), Chandigarh, organized combined National Safety Week and Fire Service Week campaigns for the year 2025 with various programs. Safety awareness banners were hoisted, and safety competitions in the form of making safety posters and writing safety essays and slogans were launched. Fire safety demonstrations and drills at various zones/divisions of TBRL were held with active participation from a total of 558 employees. Also, a fire safety and disaster management awareness program was also held at Ballistic Vidyalaya School and the Chandigarh and Ramgarh residential colonies.



The closing ceremony was held with many events, including a talk on best safety practices, a briefing about the concept behind organizing National Safety Day & Fire Safety Week campaigns and the SEED performance report, safety pledge taking, and a safety quiz with on-the-spot prizes. On the occasion, the trophy for the



best safety performance division was also awarded to the Warhead Test and Evaluation Division, and prizes for the best safety poster making, safety slogan, and safety essay competitions were also distributed. The event was attended by all TBRL employees to renew their commitment to work safely throughout the year.





## NPS VS UPS SESSION AT DRDO HQ

To empower DRDO's central government employees with comprehensive knowledge about their pension option, the Directorate of Management services (DMS), DRDO HQs organized an informative session, presented by experts from the UTI Pension Fund under Regulatory and Development Authority (PFRDA) on 22 July 2025. The focus was on comparing the New Pension System (NPS) and the Unified Pension Scheme (UPS), two prominent retirement schemes, and helping employees understand which offers better benefits. The session by PFRDA and UTI Pension Fund emphasized the importance of making informed choices based on individual financial goals and



risk tolerance. They highlighted the steps DRDO employees can take to optimize their retirement benefits under these schemes and explained how NPS, regulated by PFRDA, empowers employees

with transparency and assured payouts through annuities.

With initiatives like this by DMS, employees are better equipped to plan for a financially secure and dignified retirement.

## MOCK DRILL OF TERRORIST ATTACK AT DGRE

A mock drill was conducted on 14 July 2025 at Defence Geoinformatics Research Establishment (DGRE), Chandigarh, to review the security system and also streamline the coordination procedure with all the stakeholders. The senior security officer of DGRE contacted the police station of Sector 38, Station HQ Chandimandir, and the fire brigade. Agencies arrived at the DGRE premises to demarcate the drill area. The army and Chandigarh Police launched a joint mock drill to secure the place and evacuate the captives. The Fire Brigade also demonstrated their role in such situations. The joint



mock drill has given a complete overview of the operation to be

executed in such situations to DGRE employees.



## RASHTRIYA KARMAYOGI TRAINING PROGRAM

In a significant step towards capacity building of DRDO employees and the Capacity Building Commission's directives to develop Karmayogi Coaches (Master Trainers in DRDO), the Directorate of Human Resource and Development (DHRD), DRDO HQrs, successfully conducted two batches of a 3-day master trainers training program under the Rashtriya Karmayogi Jan Seva Initiatives. The training programs were held at Timarpur, Delhi, during 25-27 June 2025 and 16-18 July 2025.

Dr Mehbuba Begam, Sc 'F', DHRD, and Shri Vipul Gupta, Sc 'F', O/o DG (SSS), served as lead trainers for the programs. A total of 65 participants trained



as master trainers from various Delhi-based DRDO laboratories and establishments. These newly trained master trainers will play

a pivotal role in the ground-level implementation of the Rashtriya Karmayogi Jan Seva Program across the DRDO.

## EMPOWERING THE DRDO WORKFORCE: JAN SEVA TRAINING PROGRAM AT DEAL

Defence Electronics Application Laboratory (DEAL), Dehradun, successfully conducted the Rashtriya Karmayogi Jan Seva Training Program for its officers and staff as part of the government of India's flagship Mission Karmayogi, initiated by the Hon'ble Prime Minister Shri Narendra Modi. The program, aimed at fostering a citizen-centric, performance-oriented, and future-ready workforce, was executed under the guidance of the Capacity Building Commission (CBC) and delivered through the iGOT Karmayogi platform.

The internal facilitators of



DEAL Ms Sonali Agarwal, Sc 'F'; Shri Navkiran Brar, Sc 'F'; Shri Gaurav Kapoor, Sc 'F'; and Dr Gaurav Mittal, Sc 'E' contributed to delivering high-impact content

and case-based learning. The enthusiastic participation and positive feedback from employees reflected the relevance and practical value of the training.



## WODA & 126TH CCM AT CFEES

The Centre for Fire, Explosive and Environment Safety (CFEES), Delhi, hosted a meeting of the Committee on Works of Defence Act (WoDA), under the Chairmanship of Prof. (Dr) Prateek Kishore, DS & SG (ACE), and Co-Chairmanship of Dr Manu Korulla, DG (R&M), on 24 July 2025 at SDC Pilkhuwa. Director TBRL, Director DCW&E, and Directors and GMs from ACE cluster laboratories attended the meeting. CFEES also hosted the 126th ACE Cluster Council Meeting under the Chairmanship of Prof. Kishore on 25 July 2025 at SDC Pilkhuwa. The meeting was attended by officers from O/o DG (ACE), Pune, Directors, GMs, and tech-coord heads of 10 ACE cluster laboratories. CFEES released an



informational bilingual booklet entitled Selecting Effective Fire Protective Gear 'A Ready Reckoner' प्रभावी सुरक्षात्मक उपकरणों का चयन 'सन्दर्भ पुस्तिका' on 25 July 2025 at SDC Pilkhuwa during CCM. The booklet was released by Prof. Kishore. The bilingual

booklet provides a brief overview of various firefighting scenarios, from structural to proximity operations to wildland blazes. This reckoner offers practical, scenario-based advice that will enhance the readiness and safety of personnel on the job.

## TECH. DEMO OF AGRI-ALLIED TECHNIQUES IN BORDER VILLAGES OF ARUNACHAL PRADESH

A technology demonstration of agri-allied techniques under the civil-military fusion program was conducted by DRL Tezpur in remote border villages of Arunachal Pradesh.

The demonstration consisted of two modules: theory and on-site field demonstration. A technology demonstration on Good Agricultural Practices (GAP) in agroforestry systems was conducted in border villages under the Khagam and Manmao blocks of the Changlang district of Arunachal Pradesh from 19-27 June 2025.

A total of 390 beneficiary



families from 33 villages participated in the technology demonstration. Plant saplings,

viz., areca nut, black pepper, Khasi mandarin & sissoo, were distributed to the farmers.



## INVITED TALK ON SENSITIZATION ON INDIAN STANDARDS FOR GOVERNMENT OFFICIALS AT DMRL

Defence Metallurgical Research Laboratory (DMRL), Hyderabad, organized a program on 'Sensitization on Indian Standards for Government Officials' under the DG (NS&M) Cluster Level initiative on 3 July 2025. The event was conducted by the Bureau of Indian Standards (BIS), functioning under the aegis of the Ministry of Consumer Affairs, Food and Public Distribution. The program began with a welcome address by Shri R Sharat Chandra, Sc 'E', who introduced the speakers and set the context for the sessions. The first session, delivered by Smt T Sujatha, Director, BIS Hyderabad, provided a comprehensive overview of the functions and regulatory role of BIS, covering standardization,



product certification, conformity assessment, laboratory services, and training initiatives. In the second session, Shri PV Shrikanth, Director & Head, BIS Hyderabad, introduced the participants to the BIS website and its key features. He showcased tools for accessing standards, training resources, and the 'Standards Watch' bulletin, which provides

updates on national and defence-related standards. A short video was also screened, offering insight into recent developments in the domain of defence standards.

Shri Sanjay Kumar Sah, Sc 'F', who coordinated the event, delivered the vote of thanks, acknowledging the efforts of the speakers and enthusiastic participants.

## DR SUBBA RAO MEMORIAL LECTURE ON SUSTAINABLE ENERGY AND NUCLEAR POWER

The Defence Metallurgical Research Laboratory (DMRL), Hyderabad, in collaboration with the Hyderabad Chapter of the Indian Ceramic Society (ICS), hosted the 3rd Dr BVS Subba Rao Memorial Lecture on 26 June 2025. The event commenced with a welcome address by Dr Roy Johnson, former Associate Director, ARCI, who offered a special acknowledgment to the Chief Guest, Padmashri



Dr Chaitanyamoy Ganguly, former Chairman & Chief Executive, Nuclear Fuel Complex, Department of Atomic Energy (DAE). The event was graced by Dr R Balamuralikrishnan, OS & Director, DMRL. Dr AD Manohar (Retd.), Sc 'F', DMRL shared personal memories of working with Dr Subba Rao at DMRL and lauded his visionary efforts in developing ceramic technologies





for defence applications. The Chief Guest, Dr Chaitanyamoy Ganguly, delivered an inspiring and insightful keynote lecture on 'Sustainable Energy Security and Environmental Protection—The Role of Nuclear Energy'.

In his presentation, Dr Ganguly addressed the global energy crisis, the need for decarbonization, and the critical balance between energy security and environmental protection. He emphasized the limitations of relying solely

on renewable energy sources to meet climate targets and advocated for greater integration of nuclear energy as a reliable, carbon-free solution. The event concluded with a vote of thanks by Dr Madhusoodana.

## SUMMER TECHNICAL ORIENTATION PROGRAM FOR B.TECH STUDENTS

The Defence Metallurgical Research Laboratory (DMRL), Hyderabad, conducted a one-month summer technical orientation program for 46 B. Tech students from reputed universities, engineering colleges, and institutions during 2 June 2025 to 4 July 2025. Students from prestigious institutions such as VNIT Nagpur, NIT Raipur, IIT (BHU) Varanasi, IIT Goa, Andhra University, Visakhapatnam, and Central University, Jharkhand, participated in the program. Dr Sarabjit Singh, Sc 'F', addressed the gathering, highlighting DMRL's key accomplishments and underscoring the vital collaboration between DRDO, research institutes, and academia in advancing defence technologies. Over the course of



the month, the students attended technical presentations delivered by scientists from over 35 major technical groups. Guided visits to the respective research groups complemented each presentation, providing students with a firsthand view of DMRL's state-of-

the-art infrastructure and ongoing projects. The program fostered meaningful interactions between students and DMRL scientists, with the participants displaying keen interest in the laboratory's cutting-edge research, products, and technologies.

## DRDO-INDUSTRY OUTREACH CAMPAIGN FOR EASTERN REGION BY DISB

The DRDO-Industry Outreach Campaign for the Eastern Region, coordinated by the Directorate of Interaction with Services for Business (DISB), DRDO HQrs, was organized at the Research Centre Imarat (RCI), Hyderabad, on 25

July 2025. The primary objectives of the outreach were to maximize engagement of industry partners associated with DRDO projects, generate awareness on the latest DRDO policies on Transfer of Technology (ToT), selection of

Development cum Production Partners (DcPP), clarity on Quality Assurance and Reliability policies, highlight the MHA guidelines for product development, emphasize the importance of technology cooperation with international



partners, and reinforce the significance of technology security in DRDO projects. The outreach witnessed the participation of 140 industry partners located in the Eastern Region and approximately 100 DRDO officials, including Directors of DRDO laboratories, senior scientists, project directors, MMG representatives, representatives from Industry Interaction Groups (IIGs), and R&Q reps from DRDO laboratories. Secretary DD R&D & Chairman DRDO graced the occasion as Chief Guest and the event was enriched by the presence of DS&DG (MSS) and DS&DG (PC&SI), who attended the outreach campaign as special guests. The outreach campaign



marked a significant step toward strengthening collaboration between DRDO and its industry

partners, with a focus on self-reliance and innovation in the defence sector.

## COURSE ON WRITING A SCIENTIFIC RESEARCH PAPER AT DESIDOC

Defence Scientific Information & Documentation Centre (DESIDOC), Delhi, organised a Continuing Education Program (CEP) on 'Writing a Scientific Research Paper' during 16-18 July 2025. The course's objective was to raise awareness among the DRDO fraternity about the importance of research writing and emphasized emerging new tools and techniques used for writing scientific research papers. Some of the topics covered during the course were scholarly communication and scientific writing; IPR issues in scientific communication; referencing styles; reference management tools; understanding research literature through Web of Science; ethical conduct for publication; an



overview of DRDO publications; AI tools for writing scientific research papers; and research metrics.

Ms Kiran Chauhan, Director, DESIDOC, inaugurated the course and delivered the inaugural address to the participants. Dr Yousuf Ansari, Sc 'G' & Course Director, briefed the participants

about the need and purpose of writing a scientific research paper. Shri Yogesh Modi, Sc 'F' & Dy. Course Director, gave a brief introduction to the course contents. Over 30 participants from various DRDO laboratories attended the course.





## COURSE ON PROCUREMENT OF GOODS & SERVICES FOR DRDO BY DFMM & IIM, VIZAG

A five-day program on procurement of goods and services was a collaborative initiative by the Indian Institute of Management Visakhapatnam (IIMV) and the DRDO. The collaborative effort aimed at enhancing and enriching the procurement and allied capabilities of DRDO scientists and officers, equipping them with the latest knowledge of best practices, legal frameworks, and strategic and practical insights essential for

economical, efficient, and effective procurement in DRDO.

Through a balanced mix of interactive lectures, case studies, group exercises, and real-world examples, participants gained a comprehensive understanding of government procurement guidelines (including GFR, GeM, and CVC norms), risk management in procurement, vendor evaluation, and strategic sourcing. The program strengthened

the technical competencies of participants in procurement-related costing and pricing strategies, enabling them to make more informed and financially sound decisions. In addition, it provided in-depth exposure to the procurement platform of Government e-Marketplace (GeM) and familiarized them with the key concepts in global procurement, such as INCOTERMS and maritime logistics.

## COURSE ON FINANCE & MATERIAL MANAGEMENT FOR DRDO & IDAS OFFICERS AT PUNE

A five-day residential training program on 'Finance and Material Management' was organized by the National Academy of Defence Financial Management (NADFM), Pune, during 4-8 August 2025, for the participants from DRDO and IDAS officers from the Defence Accounts Department (DAD).

The course was inaugurated by Director, DFMM, Dr Maiya Din, and Shri Anand Agrawal, IDAS,

CDA (Trg) & Director, NADFM, and IFA (R&D) DG (ACE). 25 officers from DRDO and 5 IDAS officers from DAD who are posted as Financial Advisors & paying authorities in the R&D setup attended this training.

The objective was to provide a platform where participants from both the organisations can interact and brainstorm to further enhance the synergy at all levels.

Important topics like Procurement Manual-2025, GeM, Costing, Legal Aspects & Arbitration, etc. were covered. The training also included panel discussions on contract management and audit. The lectures were delivered by senior-level IDAS officers as well as DRDO officers and experts from GeM, Balmer & Lawrie, etc. A short trek was also conducted as part of the team-building activity.





## OFF-CAMPUS WORKSHOP ON TECHNOLOGY FORECASTING

A three-day off-campus 'Workshop on Technology Forecasting' was conducted by ITM during 16-18 July 2025, at CASDIC, Bengaluru, specifically targeting the ECS cluster. A total of 39 participants from the ECS cluster and Bengaluru-based laboratories participated in the workshop. The workshop was inaugurated by Dr BK Das, DS & DG (ECS), along with Director LRDE, Centre Head CASDIC, and Director ITM. The workshop commenced with an insightful inaugural address by Dr Das emphasizing the strategic importance of technology forecasting.

The highlight was the insightful panel discussion, featuring eminent personalities like Dr S Christopher, former secretary,



DD R&D & Chairman DRDO, and Dr Das which delved into the strategic imperative of technology forecasting, the top-down approach and scenario planning for technology forecasting, defining the scope with clear timelines, and integration into defence planning. The panel pointed out that ITM should conduct research

in technology management and develop a framework focusing on technology road mapping, technology evaluation, and capability assessment linked with product development in context with DRDO. Workshop debriefing and vote of thanks were done by Course Director, Dr A Gourav Rao, Sc 'E'.

## WORKSHOP ON Q-MANTHAN BY SAG

Scientific Analysis Group (SAG), Delhi, organized a national workshop 'Q-Manthan' during 8-9 July 2025. The workshop was aimed at providing a common platform for design and development agencies, including private industries, and user agencies, including the MoD and evaluation agencies, to deliberate and brainstorm on the pragmatic use of quantum technologies in secure communication across various government agencies in India.

The workshop was graced by Shri LC Mangal, DG (TM), DRDO HQrs, as Chief Guest, and Lt. Gen Sanjay Verma (Rtd.),

PVSM, AVSM, VSM, Bar to VSM, as a Special Guest. The event was convened by Dr N Rajesh Pillai, OS & Director, SAG, and coordinated by Mr Anand Sharma, Sc 'F', SAG.

This workshop aligns with India's ambitious National Quantum Mission (NQM) and witnessed participation from diverse stakeholders, including representatives from the Armed Forces, DRDO, ISRO, Indian Railways, the Ministry of External Affairs (MEA), the Ministry of Home Affairs (MHA), Indian Academia, government societies such as CDoT and CDAC, government design agencies including Bharat Electronics



Limited, HAL, and ECIL, and private industries.





# NATIONAL PROGRAM ON VIKIRAN PREHRI FOR MEDICAL TEAMS OF MHA

Dr Samir V Kamat, Secretary DDR&D & Chairman DRDO, inaugurated “Vikiran Prehri” for medical teams of the Ministry of Home Affairs (MHA) at the Institute of Nuclear Medicine and Allied Sciences (INMAS), Delhi, on 23 July 2025. The first-ever program, ‘Training of Medical Teams Attached with VVIPs to Deal with Nuclear and Radiological Exigencies,’ was held during 23-25 July 2025 at INMAS under the banner of ‘Vikiran Prehri.’

The milestone event brought together 126 medical doctors attached to VVIPs across the country (25 states/UTs + ITBP, CRPF, CISF, SPG, and NSG). They were introduced to the real-world protocols, biomedical principles, and emergency tools necessary for radiological preparedness in high-risk security environments. With 12 modules including and hands-on



training, the program covered the spectrum of radiological medicine, ranging from radiation triage, biodosimetry, ARS management, and decontamination to biomarker-based rapid diagnostics and medical SOPs.

The Vikiran Prehri initiative symbolizes INMAS's evolving role in preparing a dedicated cadre of radiation-aware medical professionals for national exigencies—visionary sentinels for tomorrow's challenges.

## STEMS-24.2 BY ITM AT SDC, PILKHUWA

The Mandatory Training Programme ‘Specialized Training on Essential Management Skills’ (STEMS-24.2) for newly promoted Scientist Gs was organized by Institute of Technology Management (ITM), Mussoorie, during 28 July 2025 to 8 August 2025 at DRDO Skill Development Centre (SDC), CFEES, Pilkhuwa, Uttar Pradesh. The course was organized with the aim to orient the scientists towards leadership excellence, R&D management, strategic management and

corporate functions of DRDO. A total of 74 Scientist-Gs from 33 laboratories/centres/directorates of DRDO joined the course. Total 29 topics were covered in 50

sessions. Important topics related to potential of DRDO-Industry-Academia collaborations, resilient defence eco-system, handling requirement from services,





challenges in development of platforms, future warfare, essential leadership skills, project risk management, PM-2025, cyber/space threat, etc. were discussed. Course participants were divided into 15 teams (syndicates) for deliberation and discussions on important topics

related to DRDO and the defense sector. Chief Guest, Dr Mayank Dwivedi, OS & DG (HR), Guest of Honour Shri Arvind Kumar, OS & Director CFEES, Special Guest Dr SK Singh, Director DHRD and Shri SP Dobhal, Director ITM inaugurated the course. Prof (Dr) Prateek Kishore DS &

DG (ACE), Dr (Ms) Chandrika Kaushik DS & DG (PC&SI), Dr JR Joshi OS & DG (BrahMos) and many other distinguished guest faculty interacted with the course participants. Shri U Raja Babu, DS & DG (MSS) addressed the participants as Chief Guest during the valedictory function.

## WORKSHOP ON GENDER SENSITISATION & AWARENESS OF POSH ACT

### CAS, Hyderabad

The workshop on gender sensitization and self-defence training for women was organized on 17 July 2025 at the Centre for Advanced Systems (CAS), Hyderabad. The workshop was inaugurated by Shri Praveen Tandon, TD Facilities, followed by the welcome address by Shri Sista Sreenivas, DOMS. Lectures on gender hurdles at the workplace and the POSH Act by Dr Mamatha Raghuvver Achanta, CEO of Tharuni and NGO member; gender-based harassment by Ms Asiya Shervani, ethics and leadership expert advisor, Women Safety Wing, Telangana Police; and prevention of sexual harassment at the workplace by Ms Priya Iyengar, corporate lawyer and arbitrator, were delivered during the workshop. Women's

self-defence training was given by Mr Bhaskar Reddy Doluru, DSP, Women Safety Wing, Telangana Police, and Mr K Satyanarayana Reddy, Inspector, Women Safety Wing, Telangana Police.

Finally, prizes were distributed for the winners of the poster and slogan competition on gender sensitization and the POSH Act.

### CFEES, Delhi

A gender sensitization awareness program for male and female employees of all cadres of the Centre for Fire, Explosive and Environment Safety (CFEES), Delhi, to ensure a harmonious and productive working environment in the organisation was conducted on 6 August 2025. Dr Govind Kumar, SAO-I from the Defence Institute of Psychological Research (DIPR), Delhi, was invited to deliver a lecture on 'Creating Safer Workplaces: Understanding the POSH Act, 2013 for Workplace Dignity & Respect'. In his talk, the importance of gender sensitization was highlighted.

Shri Arvind Kumar, OS & Director, CFEES, appreciated the efforts made by the CFEES ICC team and brought out the

importance of awareness about gender sensitisation at the workplace.



### DIPR, Delhi

The Defence Institute of Psychological Research (DIPR), Delhi, conducted three workshops on 'Gender Sensitization' for the CAPF Indo-Tibetan Border Police (ITBP) Personnel during 30 July 2025 to 1 August 2025. The workshops were organised at different locations of ITBP by its Special Cell for Women with the aim to sensitize their personnel on gender sensitivity.

For wider outreach, the workshop was also conducted in







hybrid mode, wherein more than six formations of ITBP had joined online. It was attended by more than 400 ITBP personnel across all the ranks. Dr Shilpi Nanglu, Sc 'F', DIPR, conducted the workshops jointly in collaboration with ITBP.



### DMRL, Hyderabad

Defence Metallurgical Research Laboratory (DMRL), Hyderabad, organised a lecture and awareness programme on 'Gender Sensitisation and Awareness on POSH Act' on 5 August, 2025. Dr P Prasanthi, Secretary, Deeksha

Centre for Learning and Action, Hyderabad, was invited as the Guest Speaker. She was warmly welcomed along with other dignitaries by Smt V Padma, TO 'C'. Dr Banumathy, Sc 'F', Member, IC delivered the welcome address and introduced the Chief Guest.

Dr Prasanthi delivered an impactful presentation on the POSH Act, 2013, covering its background, scope, and significance, including types of sexual harassment, constitutional safeguards, redressal mechanisms, and the role of Internal Committees. In his address, Dr R Balamuralikrishnan, OS & Director, DMRL underscored the importance of sustained efforts to build an inclusive and equitable work environment. Dr Sony Punnose, Sc 'F' & Chairperson, IC, briefed the audience that as part of the awareness initiative,

poster-making and slogan-writing competitions were been organised in Hindi, English, and Telugu. A total of 62 employees, including both permanent and contract staff, participated enthusiastically. The session concluded with a vote of thanks by Mrs Seshu Kumari, Admin Officer (AO), Member Secretary, IC, marking a significant step towards reinforcing DMRL's commitment to a gender-sensitive and inclusive workplace. The programme was conducted by the Internal Committee of DMRL.



## COURSE ON ASMAFT-21

The Defence Institute of Biodefence Technologies (DIBT), Mysuru organised a 4-day course on 'Advance Supply Chain Management & Food Technology (ASMAFT-21)' during 7-10 July, 2024. The course was attended by 17 Army ASC officers along with two instructors from ASC Centre & College, Bengaluru.

Lectures were delivered on ration technology and management, field amenable test kits, food packaging, food safety and HACCP, post-harvest quality of fruits and vegetables, milling, quality evaluation of cereals and pulses, food analysis and quality control, and food supply chain management. The course also included AI (digital twin)-enabled



precision nutrition for the wellness of troops.

A visit to Karnataka Milk Federation (KMF) Dairy, Mysore; CFTRI, Mysore; and ITC Foods Pvt Ltd, Nanjangud, was arranged as a part of the course to understand the different technological aspects of milk processing, milling of grains,

and processing and production of RTE foods and potato chips, respectively.

Dr R Kumar, Centre Head, DIBT, distributed the certificates to the course participants. The program ended with a vote of thanks from Course Director Dr V Vasudevan, Sc 'F'.



## MHA-DRDO COLLABORATION: 9TH TC MEETING

The 10th Technology Council Meeting under MHA-DRDO collaboration was held at DRDO Bhawan on 5 June 2025, chaired by Dr Chandrika Kaushik, OS & DG (PC & SI), with members from MHA, CRPF, BSF, NSG, ITBP, CISF, SSB, NDRF, Assam Rifles, IB, and Delhi Police, and officers from DRDO HQ attending the meeting. DRDO laboratories involved in the development of LIC products also attended through VC.

Shri Sangita Rao Achary, Director, DLIC, and Member Secretary of the Technology Council, presented progress on various developments being taken under the categories of weapon systems, surveillance and reconnaissance, communications, mobility, protection & safety, and



soldier support.

New developments by various DRDO laboratories were also presented, such as the UGRAM assault rifle, BPJ Level 6, ergonomically designed combat

boots, Rakshita bike ambulance, manpack SDR, compact transhorizon communication system, Mandarin-to-Hindi translator, exoskeleton, frangible bullets, etc.

## INVITED TALK

### MTRDC, Bengaluru

Dr Manju Dhaundiyal, Deputy Director (Retired) from the National Institute of Public Cooperation & Child Development (CIPCCD), delivered an enthralling talk on 'Balancing between Office



and House Responsibilities' at the Microwave Tube Research & Development Centre (MTRDC), Bengaluru, on 30 July 2025.

### NPOL, Kochi

Naval Physical and Oceanographic Laboratory (NPOL), Kochi, arranged an invited talk on 'Happy Parenting' by Shri Sen Sasidharan, Motivational Trainer, on 29 July 2025. He explained how to handle the misbehaviors of children and elaborated on the different stages of children's brain development. The event was coordinated by the Works Committee, NPOL.

On the same day, the NPOL Works Committee organized a

Merit Award function to honor the top-ranking students of the NPOL Community. Dr Rema Devi M, Sc 'G' & Chairperson, Works Committee, welcomed the gathering and congratulated the awardees. Dr Duvvuri Seshagiri, OS & Director, NPOL, distributed the prizes to the students and gave the felicitation speech.







## HINDI WORKSHOP

The Institute for Systems Studies & Analyses (ISSA), Delhi, conducted a one-day Hindi Workshop on 17 June 2025 on 'Swa-Vikas Mein Rajbhasha Hindi Ka Yogdaan'. Smt Deepakshi Shah, Director, ISSA, welcomed the speaker, Dr Rajesh Kumar Tripathi, Sc 'E', DIPR, DRDO.

The speaker spoke about Macaulay's education policy, the Vernacular Act, Anglo-Vedic School, etc., including analysis of self-development in the light of Indian history. He underlined the contribution and importance of Hindi in the tradition of Indian culture &



knowledge the subsequent session, Dr Tripathi conducted practice on Hindi language grammar and administrative Hindi. The

technical and literary issue of the in-house Rajbhasha magazine 'Vishleshika' was also released during the workshop.

## HINDI SIGNATURE CAMPAIGN AT DMRL

Defence Metallurgical Research Laboratory (DMRL), Hyderabad, organised a Hindi Signature campaign during 7-14 August 2025 to encourage the use of Rajbhasha in official work. Dr R Balamuralikrishnan, OS & Director, DMRL, inaugurated the program by signing in Hindi on the campaign banner, followed by enthusiastic participation from officers and staff, including those from non-Hindi-speaking regions. The event reflected DMRL's strong commitment to promoting Rajbhasha and witnessed wide participation throughout the week. Shri Pawan Kumar, Assistant Director (OL), highlighted the importance of implementing Rajbhasha at the workplace and encouraged staff to overcome hesitation in using



Hindi. Shri Jagtap NK Baguji, TO 'D' and Officer-in-Charge, Rajbhasha Cell, also urged employees to adopt Hindi in their daily work. In his address, Dr Balamurali krishnan stressed the

responsibility of every individual in promoting Hindi usage in routine activities. He shared the positive feedback received from the Town Official Language Implementation Committee (TOLIC).



# HINDI PAKHWADA CELEBRATION AT DRDO HQRS

To celebrate the occasion of national Hindi Diwas, Hindi Pakhwada was organised at DRDO HQrs during 12-29 August 2025. The event was inaugurated by Shri Sunil Sharma, OS & Director, DPARO&M and Shri Chandra Prakash Meena, Associate Director. Shri Chandra Prakash addressed the participants and advised for regular use/practice of Hindi in official work in compliance with the Official Language Policy of India. Smt Arun Kamal, Assistant Director (OL) gave the detailed overview of the activities



of pakhwada including different competitions and motivated the employees for participating in all the competitions with full zeal and enthusiasm. A special workshop was organised on the occasion

with a special invitee, Dr Balendu Sharma Dadhich, Director, localization, Microsoft Bharat, who presented a very influential lecture on 'Artificial Intelligence aur Bhasha Ki Sambhavnayen'.

## Higher Qualification Acquired



Shri Surjeet Kumar Sinha, Sc 'F', Advanced Systems Laboratory (ASL), Hyderabad, has been awarded PhD from Department of Mechanical Engineering, National Institute of Technology (NIT), Warangal, Telangana for his thesis titled "Study of Filament Winding Parameters for Manufacture of Composite Pressure Vessel".

## Best UT NDTian Award-2025



The Indian Society for Non-Destructive Testing Hyderabad Chapter (ISNTH) has presented the 'ISNTH-Metsonic Engineers Best UT NDTian Award-2025' to Shri T Durga Prasad, STA 'B', DMRL at the Annual General Body Meeting (AGM) held on 28 June 2025 at Gurukul, NFC, Hyderabad.

## Article Placed in top 100 Physics Paper



An Article "Novel Epoxy-bPBD-BisMSB Composite Scintillator for Alpha, Beta and Gamma Radiation Detection, Scientific Reports (2024):14 6531" by Dr Ram Milan Sahani, Sc 'E' and Dr Arun Pandya, Sc 'F' (Retd.) of DLJ, has been placed in top 100 physics papers out of 934 papers published in Scientific Reports (Nature).

## Patents Granted

### DL, Jodhpur

A patent no. 556951 for "A Polymer Concrete Composite and Process for Preparation Thereof" has been granted by Indian patent office to Lalit Awwal, Madan Kumawat, JS Ramesh Bapu, Dr Brijendra Prasad Gupta, Ravindra Kumar, Dr Prashant Vasistha, Suresh Kumar Jangid, of Defence Laboratory, Jodhpur.

### CAS, Hyderabad

Patent No: 556554 for "Machine vision-based assembly line components identification system" has been granted by Indian Patent Office to Shri Praveen Tandon, Sc 'G', Shri Pramod Kumar Jha, Sc 'G', Inventors from Centre for Advanced Systems (CAS), Hyderabad and Professor Sandip Deshmukh, et al inventor from BITS, Pilani.





## WOMEN'S WELLNESS CAMP AT CVRDE

An exclusive 'Women's Wellness Camp' was organized at Combat Vehicles Research and Development Establishment (CVRDE), Chennai, on 5 August 2025, in coordination with Sri Ramachandra Institute of Higher Education and Research, Porur. A group of specialist doctors, along with their support team, carried out the medical examinations in the various branches, viz., cardiology, gynecology, ophthalmology, dentistry, general medicine, and mammography, at the one-day wellness program.

Shri K Prakash, Assistant PRO of CVRDE, delivered the welcome address. Maj. Santosh Kumar Muduy, medical officer, spoke about the scope of the medical camp. Smt Jeyapradha Ganesh, Addl. Dir. (IT&SE), insisted the women members obtain the



medical advice from experts & take up necessary tests for prevention of critical ailments. The inaugural event was presided over by Shri J Rajesh Kumar, Sc 'H' & Director, CVRDE, and appreciated the

Ramachandra Team for carrying out the comprehensive medical test at CVRDE. Dr V Balamurugan, Sc 'H' & Program Director (AFV), graced the occasion with his august presence.

## SOCIAL ACTIVITIES AT DLJ

A blood donation camp was organized at Defence Laboratory Jodhpur (DLJ) in collaboration with State Bank of India DLJ Branch on 1 July 2025. Many staff members came forward to donate blood and support this noble cause.

The event was conducted smoothly with the help of medical staff, and several units of blood were collected for patients in need.



Defence Laboratory Jodhpur (DLJ) organised preventive health check up camp on 26 June 2025, for its staff as part of DRDO's broader wellness initiative. The camp provided a comprehensive suite of services ranging from routine medical examinations to eye, diabetes, and blood pressure screening ensuring early detection and proactive management of health issues. The camp showed DLJ's care and concern for the well-being of its employees.



# VISITORS TO DRDO LABORATORIES

## CAIR, Bengaluru

□ Lt Gen Rajiv Kumar Sahni, AVSM, VSM, PhD, Director General Information Systems (DGIS), visited the Centre for Artificial Intelligence and Robotics (CAIR), Bengaluru, on 4 July 2025. During the visit, Dr Rituraj Kumar, OS & Director, CAIR, briefed him followed by discussions and demonstrations of command and control technologies developed by CAIR for land forces.

□ Dr PK Mishra, Principal Secretary, PMO, visited CAIR, Bengaluru, on 8 July 2025. The dignitary was received by Smt Suma Varughese, DS & DG (MCC), Dr Rituraj Kumar, OS & Director, CAIR along with senior officers. The Principal Secretary was briefed on programmes including autonomous ground vehicles, AI-based surveillance systems and secure communication networks.

During the interaction session, he appreciated the cutting-edge work done by CAIR and encouraged the team to pursue greater collaboration with user agencies, industry, and academia.

## DLRL, Hyderabad

Directorate of Low Intensity Conflict (DLIC), DRDO HQrs organised the visit of CAPFs to Defence Electronics Research Laboratory (DLRL) and Centre for High Energy Systems & Sciences (CHESS), Hyderabad, for familiarization of Electronic Warfare (EW) technologies and laser-based DEW technology for drone neutralization on 25 July 2025. Officers from BSF, NSG,







CRPF, IB, CISF, SSB, ITBP, and Delhi police also participated. The team appreciated the drones' soft kill & hard kill capability and opined that calibration between CAPFs and DRDO shall further enhance the country's capabilities in dealing with equipment threats from rogue drones.

### DMRL, Hyderabad

□ Defence Metallurgical Research Laboratory (DMRL), Hyderabad, hosted an industrial tour for 22 student officers from the Military College of Electronics & Mechanical Engineering (MCEME), Secunderabad, on 6 August, 2025. The visit began with an introductory film highlighting DMRL's journey, research focus, and technological milestones. Dr Ashish Pathak, Sc 'F', addressed the gathering, outlining the laboratory's key advancements and underscoring the importance of collaboration between research institutions and the Indian Armed Forces.

□ On August 7, 2025, the Defence Metallurgical Research Laboratory (DMRL), Hyderabad, hosted an industrial visit for 10 Technical Officers from Damodar Valley Corporation (Kolkata), Integrated Coach Factory (Chennai), and DQA (N) (New Delhi). They were accompanied by two Directing Staff from the ESCI, Hyderabad. Dr Sarabjit Singh, Sc 'F' addressed the gathering, underscoring the laboratory's accomplishments and the importance of collaboration between research institutions, industry, academia and the tri-Services in advancing defence technologies. In line with the officers' interest in the subject corrosion engineering, advanced



materials for corrosion-resistant coatings, and emerging applications, they were given the opportunity to interact with relevant technical groups.

### DMSRDE, Kanpur

Dr G Raja Singh, OS & Programme Director, PJ-10, visited Defence Materials and Stores Research & Development Establishment (DMSRDE),

Kanpur, on 9 July 2025. He was accompanied by Shri Debashish Sen, Sc 'F'. Dr Kingsuk Mukhopadhyay, Director, DMSRDE, welcomed the PJ-10 team. He was briefed about progress on the development of naphthyl fuel for the ramjet sustainer motor of the BrahMos missile by Director DMSRDE. Dr G Raja Singh extended his gratitude to Director DMSRDE





and briefed about the importance of the systems and subsystems of the BrahMos missile. He appreciated the efforts made by the DMSRDE team led by Dr Jyoti Srivastava, Sc 'G' for the development of naphthyl fuel and AMGA-2 & 10 grade lubricants for missile applications.

### DYSL-QT, Hyderabad

□ On 21 July 2025, the DRDO Young Scientist Laboratory-Quantum Technologies (DYSL-QT) was honored to host the visit of the former DG (MCC), Dr Keshav D Nayak. The day was marked by insightful interactions across several verticals of the laboratory. The ex-DG engaged with teams working in quantum computing, sensing technologies, communication, and Quantum Random Number Generation (QRNG). Each group showcased their progress and innovations, sparking thoughtful discussions



and valuable feedback.

The visit served as a meaningful exchange of ideas, reinforcing the laboratories mission towards pioneering excellence in quantum research and fostering a culture of collaborative innovation.

□ A delegation consisting of twelve young officers from the Indian Navy and Coast Guard, currently undergoing their MPT 76 course at MILIT, Pune, visited DYSL-QT on 22 July 2025. Shri Manoj Jha, Officiating





Director, DYSL-QT, extended a warm welcome to the delegation, which was led by Captain Asif and Commander RK Bhardwaj from the Indian Navy. Shri Jha provided a concise yet insightful overview of the current landscape of quantum research, highlighting its transformative potential in areas such as secure communications, cryptography, and high-speed data computing and sensing. The visit marks a significant step in integrating quantum literacy into defence leadership, fostering a future-ready mindset among Indian Armed Force officers and reinforcing the importance of interdisciplinary collaboration in defence innovation.

### IRDE, Dehradun

□ Dr Manoranjan Parti, OS (Retd.) & Chairman, Centre for Personnel Talent Management (CEPTAM), Delhi, visited Instruments Research & Development Establishment (IRDE) on 3 July 2025. He was welcomed by Dr Ajay Kumar, OS & Director, IRDE. Dr Patri interacted with the senior scientists of IRDE. Dr Ajay Kumar briefed Dr Patri about various IRDE products which have been inducted into the Services.

He was taken on a guided tour from IRDE Diamond Jubilee Gallery; technology area and down the memory lane which displays all technology verticals along with future roadmap and systems. Dr Ajay Kumar explained about the System Area where all the products of yesteryears have been displayed. He also visited the 'Lab WOW Moments' and 'Wall of Honour' in the Gallery. He appreciated the efforts of IRDE



in achieving the self-reliance in India's defence sector.

□ Dr Upendra Kumar Singh, DS & DG (SSS), DRDO HQrs visited Instruments Research & Development Establishment (IRDE), Dehradun, on 10 July 2025. Dr Ajay Kumar, OS & Director, IRDE, welcomed and presented major R&D initiatives and technologies developed at IRDE towards Atmanirbhar Bharat. 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 made him aware about the the presence of IRDE products in land, water and space. Dr Singh was delighted for the R&D activities happening in the field of electro-optics in IRDE beheld the Aerosol LIDAR developed by IRDE and 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 laboratory towards excellence.

□ Shri Lal Chand Mangal, DS & DG (TM), DRDO HQrs visited Instruments Research & Development Establishment (IRDE), Dehradun, on 18 July 2025. He was welcomed by Shri Punit Vashisth, Sc 'G' & Additional Director, IRDE. Shri Vashisth presented major R&D initiatives taken by IRDE and technologies developed at IRDE towards Atmanirbhar Bharat. Shri Vashisth also presented future technologies and systems in which IRDE is spearheading the development work. Shri Mangal appreciated the efforts of IRDE in developing state-of-the-art systems. He appreciated the efforts of IRDE in achieving the self-reliance in India's defence sector. He wished all the very best to the laboratory towards the excellence.



### MTRDC, Bengaluru

One Instructor and 41 trainee officers from AFTC, Jalahalli West, Bengaluru visited the Microwave Tube Research & Development Centre (MTRDC),

Bengaluru, on 22 July 2025. Shri KV Rao, Sc 'F', Shri AK Baranwal, Sc 'F', Shri Venkateshwarlu, Sc 'D', and Shri Om Shankar Mehra, TO 'A' coordinated the visit.



Please mail your feedback and suggestions at:  
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