

DRDO NEWSLETTER



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

ISSN: 0971-4391

A Monthly Bulletin of Defence Research and Development Organisation

AUGUST 2026 | VOLUME 46 | ISSUE 8

INDIGENOUS SONAR TECH DEPLOYED ON NEWLY COMMISSIONED SHIPS





Editor-in-Chief: Kiran Chauhan

Associate Editor-in-Chief: Sudhanshu Bhushan

Editor: Dipti Arora

Design & Pre-press: Raj Kumar

Printing: Rajesh Kr Singh

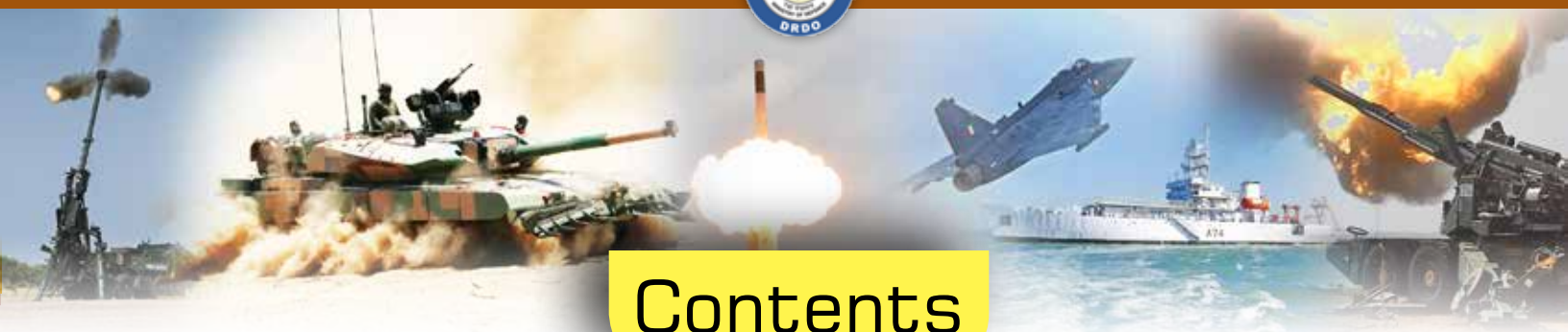
Distribution: Pratyaksh Sharma

AUGUST 2026 | VOLUME 46 | ISSUE 8

46th Year of Publication

LABORATORY CORRESPONDENTS

Agra	: Shri Gayasuddin Quraishi, Aerial Delivery Research and Development establishment (ADRDE)
Ahilyanagar	: Shri RA Shaikh, Vehicle Research and Development Establishment (VRDE)
Ambernath	: Dr Ganesh S Dhole, Naval Materials Research Laboratory (NMRL)
Balasore	: Shri Mrinal Goswami, Integrated Test Range (ITR) Shri Ratnakar S Mohapatra, Proof & Experimental Establishment (PXE)
Bengaluru	: Shri Sriram GN, Aeronautical Development Establishment (ADE) Smt MR Bhuvanewari, Centre for Airborne Systems (CABS) Smt Faheema AGJ, Centre for Artificial Intelligence & Robotics (CAIR) Dr Josephine Nirmala M, Combat Aircraft Systems Development & Integration Centre (CASDIC) Shri Jitender Kumar & Shri Vedang Chauhan, Centre for Military Airworthiness & Certification (CEMILAC) Dr Sanchita Sil & Dr Sudhir S Kamble, Defence Bioengineering & Electromedical Laboratory (DEBEL) Dr V Senthil, Gas Turbine Research Establishment (GTRE) Smt Saima Bashir, Electronics & Radar Development Establishment (LRDE) Ms Mita Jana, Microwave Tube Research & Development Centre (MTRDC)
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Chennai	: Shri K Anbazhagan, Combat Vehicles Research & Development Establishment (CVRDE)
Dehradun	: Shri Sachin Oberai, Defence Electronics Applications Laboratory (DEAL) Shri JP Singh, Instruments Research & Development Establishment (IRDE)
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Haldwani	: Dr Atul Grover, Defence Institute of Bio-Energy Research (DIBER)
Hyderabad	: Dr A Nagendranath, Advanced Systems Laboratory (ASL) Shri Rajeev Kumar Sharma, Defence Research and Development Laboratory (DRDL) Shri Ch Narasimhachari, Defence Electronics Research Laboratory (DLRL) Shri S Shashi Nath, Defence Metallurgical Research Laboratory (DMRL)
Jagdalpur	: Shri Khilawan Singh, SF Complex (SFC)
Jodhpur	: Shri DK Tripathi, Defence Laboratory (DL)
Kanpur	: Dr Mohit Katiyar, Defence Materials & Stores Research & Development Establishment (DMSRDE)
Kochi	: Dr Sandhya Songara, Naval Physical & Oceanographic Laboratory (NPOL)
Leh	: Dr Dorje Angchok, Defence Institute of High Altitude Research (DIHAR)
Mussoorie	: Shri Sunil Bhandari, Institute of Technology Management (ITM)
Mysuru	: Dr M Palmurugan, Defence Institute of Bio-defence Technologies (DIBT)
Nasik	: Shri Ashutosh Sharma, Advanced Centre for Energetic Materials (ACEM)
Pune	: Shri Ajay K Pandey, Armament Research and Development Establishment (ARDE) Dr Ganesh Shankar Dombe, High Energy Materials Research Laboratory (HEMRL) Dr Anoop Anand, Research and Development Establishment (E) (R&DE)
Tezpur	: Dr KS Nakhuru, Defence Research Laboratory (DRL)
Visakhapatnam	: Smt Jyotsna Rani, Naval Science & Technological Laboratory (NSTL)



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Please mail your feedback and suggestions at:
director.desidoc@gov.in; drdonl.desidoc@gov.in;
Contact at: 011-23902403; 23902472; Fax: 011-23819151



INDIGENOUS SONAR TECH DEPLOYED ON LATEST COMMISSIONED SHIPS

Hon'ble Prime Minister Narendra Modi, on 21 June 2026, commissioned two indigenously built Indian Navy ships in Kolkata: the stealth frigate INS Dunagiri and the anti-submarine warfare craft INS Agray. These naval warships have been designed by the Warship Design Bureau (WDB) and Defence Ship Production (DSP) and built by Garden Reach Shipbuilders & Engineers. The vessels feature over 75% indigenous content, including the sonars, which are developed by the Naval Physical & Oceanographic Laboratory (NPOL), Kochi.

NPOL is the backbone of India's underwater surveillance and anti-submarine warfare technologies, which plays the defining role in providing these newly commissioned warships with their core underwater perception capabilities. The two newly commissioned vessels—INS Dunagiri and INS Agray—feature state-of-the-art indigenous sonar suites designed and developed by NPOL.

These systems are the "eyes and ears" of the naval vessels and designed to detect, classify, and track hostile submarines and underwater threats in the highly complex acoustic environment of the Indian Ocean region.

NPOL's specific technological contributions across these ships include the following Sonars:

INS Dunagiri (Stealth Guided-Missile Frigate)

As a frontline combatant, INS Dunagiri requires long-range target acquisition to maximize its weaponry. NPOL equipped it with HUMSA 2020.

HUMSA-2020—HUMSA-NG Mk II

HUMSA-2020—HUMSA-NG for P17A ships (HUMSA-NG MK II): The product support project during 2019-2022 was taken by DRDO for an already completed MM Project—HUMSA-NG to design, develop and prove the system with new electronic architecture with enhanced features. The system was designed and developed by NPOL and manufactured by BEL, Bangalore. There are 16 orders for this system: P17A (7), Talwar (3), Talwar

Additions (4), INS Rana (1), and INS Brahmaputra (1). The system has completed lab evaluation, FATS, pre-SATS and SATS and is already inducted and operational on board ships.

INS Agray—Anti-Submarine Shallow Water Craft

Operating in shallow littoral waters is acoustically complex due to wave reflections, reefs, and coastal traffic. For INS Agray, NPOL developed customised, lightweight sonar variants.

Shallow Water Sonar Suites—Abhay PG

Shallow Water Sonar Suites (SWCS)—Abhay PG is a compact hull-mounted sonar designed and developed by NPOL for fitment onboard 16 shallow water crafts by GRSE and CSL.



DRDO CONDUCTS SUCCESSFUL FLIGHT-TEST OF PINAKA LONG RANGE GUIDED ROCKET

The Defence Research & Development Organisation (DRDO) conducted a successful flight test of the Pinaka Long Range Guided Rocket (LRGR) at the Integrated Test Range (ITR), Chandipur, on 8 July 2026. The rocket was tested for a user-defined minimum range of 60 km. Demonstrating all in-flight manoeuvres as planned, the LRGR impacted on the target with textbook precision exactly following the predicted trajectory. All the deployed range instruments tracked the flight throughout its trajectory.

The Pinaka LRGR rocket is designed by Armament Research and Development Establishment (ARDE), Pune, in association with High Energy Materials Research Laboratory (HEMRL), Pune, with support from Defence Research and Development Laboratory (DRDL), Hyderabad, and Research Centre Imarat (RCI), Hyderabad. The flight trial was coordinated by ITR and Proof & Experimental Establishment (PXE). The rocket was launched from the in-service Pinaka launcher, demonstrating its versatility and providing launch capability of Pinaka variants of different ranges from the same launcher.

Hon'ble Raksha Mantri Shri Rajnath Singh congratulated DRDO, the Indian Army and the industry on the successful flight test. He described it as a major

milestone in indigenous design and development capability for long-range guided rockets.

Defence Secretary and Secretary, Department of

Defence R&D and Chairman, DRDO Shri Rajesh Kumar Singh closely monitored the trials and complimented all the teams associated with the successful test.



MOU SIGNED BETWEEN DMSRDE AND NIOT, CHENNAI

A Memorandum of Understanding (MoU) was signed between the Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, and the National Institute of Ocean Technology (NIOT), Ministry of Earth Sciences, Government of India, Chennai, on 11 June 2026 to promote academic and research collaboration in the area of high-pressure polymeric membrane technologies for the purpose of desalination of seawater.

The MoU was exchanged between Dr Kingsuk Mukhopadhyay, Director, DMSRDE, and Prof. Balaji Ramakrishnan, Director, NIOT, in the esteemed presence of Shri Rajesh Kumar Singh, Secretary, Department of Defence (R&D)



& Chairman, DRDO. During the ceremony, Dr RV Hara Prasad, DS & DG (NS&M); Shri U Raja Babu, DS & DG (MSS); Dr Chandrika Kaushik, DS & DG (PC&SI); Dr Mayank Dwivedi, OS & DG (HR); Dr Ravindra Singh, OS & DG (R&M); Dr R Balamuralikrishnan, OS & Director, DMRL; and

other senior officers from both organisations were present. The MoU enables the exchange of research and scientific and technical material, pursuing collaborative research programmes in the areas of mutual interest and sharing of facilities to offer cost-effective portable water solutions in remote

INAUGURATION OF SWARM INTEGRATION BAY UDAYAN-UNDERWATER SWARM & MCM TECHNOLOGIES RESEARCH FACILITY AT NSTL

The SWARM integration building UDAYAN was inaugurated on 24 June 2026 at Naval Science & Technological Laboratory (NSTL), Visakhapatnam, in the august presence of Dr RV Hara Prasad, Director General (NS&M), DRDO, along with Dr Abraham Varughese, Director, NSTL; Dr Bishwajeet Choubey, Director DCW&E; Dr Meela Yagaih, Chief Construction Engineer (R&D) South; senior scientists; officers; and staff of NSTL.





The state-of-the-art facility is established in a record time of six months as a dedicated center for the integration, testing, validation, and realization

of advanced underwater autonomous systems and SWARM technologies. The inauguration marks a significant milestone in strengthening NSTL

infrastructure and enhancing its capability to develop, integrate, and evaluate next-generation autonomous systems for future naval warfare.

DRDL CELEBRATES ITS 65TH RAISING DAY

The Defence Research & Development Laboratory (DRDL), Hyderabad, celebrated its 65th Raising Day on 14 July 2026, with a series of ceremonial and technical events highlighting the laboratory's achievements and future vision. The programme commenced with the welcome address by Shri PV Sureshu, Sc 'G', Group Director (Admin) & DOMS. Dr Jagannath Nayak, DS & DG (MSS) and the Chief Guest, released the DRDL Roadmap 2025–2034, outlining the laboratory's vision for current and next-generation missile-based weapon system technologies to support ongoing and future defence programmes. On the occasion, he also launched the DRDL AI Agent, an in-house Artificial Intelligence (AI)

platform developed on a secure LAN. The platform is designed to strengthen the laboratory's technical and administrative capabilities through secure AI-driven solutions.

Addressing the gathering, Dr Ankathi Raju, DS & Director, DRDL, highlighted the laboratory's significant achievements, including the long-duration test of the scramjet engine, successful demonstration of the Solid Fuel Ducted Ramjet (SFDR) propulsion system, and several successful flight trials under various missile development programmes. He underscored the need to accelerate the development of hypersonic systems in view of the evolving global geopolitical environment. In his address, Dr Nayak

emphasised the importance of strengthening collaboration among DRDO, academia, and industry to accelerate the development and production of state-of-the-art defence technologies and weapon systems. As part of the celebrations, laboratory Commendation Cards were presented to DRDL officers and staff in recognition of their outstanding contributions during the previous year. Employees who completed 20 years of service at DRDL, along with officials from the Military Engineer Services (MES), were also felicitated for their dedicated service.

The programme concluded with a vote of thanks delivered by Shri Ajit B Chaudhary, OS & Chairperson, Organising Committee.



INTERNATIONAL YOGA DAY CELEBRATION

ADRDE, Agra

As part of the observance of International Yoga Day 2026 (IYD 2026), a yoga session was organized on 21 June 26 with active participation from all officers and staff of Aerial Delivery Research and Development Establishment (ADRDE), Agra. The programme commenced with a brief address highlighting the significance of yoga in promoting physical fitness, mental well-being, and a healthy lifestyle. The session was conducted by qualified yoga instructors, who guided the participants through



various yogasanas, pranayama, and meditation techniques aimed at improving overall health and reducing stress. Director, ADRDE appreciated the wholehearted participation of all officers and staff and emphasized that such wellness initiative contributes significantly to a healthy, motivated, and productive workforce.

ASL, Hyderabad

Advanced Systems Laboratory (ASL), Hyderabad, celebrated IYD



2026 on 21 June 2026. The theme of this year was "Yoga for Healthy Ageing". Dr M Raghavendra Rao, OS & Director, ASL, along with Shri A Prasad Goud, OS & Programme Director AGNI, inaugurated the event and welcomed the instructor Dr M Gayatri, a Hatha yoga teacher from the Isha Foundation, and the participants. Dr Gayatri conducted a yoga session that involved a warm-up, stretching, pranayama and meditation. Senior

scientists, officers, and staff participated in the Yoga session. The event was coordinated by Dr A Nagendranath, Sc 'G' and Shri Randhir Prasad, Sc 'F'.

CASDIC, Bengaluru

In commemoration of IYD 2026, the Combat Aircraft Systems

Development and Integration Centre (CASDIC), Bengaluru, celebrated IYD on 21 June 2026. The primary goal of the event was to promote the holistic benefits

of Yoga among participants and to encourage its incorporation into daily life for a healthier lifestyle. Shri Rajeev Marathe, Sc 'H' & Centre Head, CASDIC, graced the occasion and actively took part in the Yoga session.

The celebration began with an inaugural address by Shri Ajeet Kumar, Sc 'E' followed by an opening speech by Centre Head, CASDIC, emphasising the importance of Yoga and its global relevance. Thereafter, a guided Yoga practice led by Yoga teacher Shri Prashanth Savanur, covering asanas, pranayama and meditation techniques. The event



brought people together and promoted the adoption of Yoga to achieve physical, mental and spiritual well-being.



DIHAR, Leh

A Yoga session was organised on 21 June 2026 at the Defence Institute of High Altitude Research (DIHAR), Leh to mark the occasion of the 12th International Yoga Day. The session was conducted by Yoga trainer Shri Dorjey Namgyal under the supervision of Dr Raja Waseem Malik, University of Ladakh. A



total of 70 participants, including employees of DIHAR, actively participated in the Yoga session. The session was conducted with the aim of promoting physical fitness, mental well-being and awareness regarding the benefits of Yoga practice.

DMSRDE, Kanpur

The Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, celebrated IYD 2026



on 21 June 2026. The event was inaugurated by Dr Kingsuk Mukhopadhyay, OS & Director, DMSRDE. Dr Rakesh Kumar Gupta, Sc 'F', explained the benefits of Yoga in achieving the perfect harmony between the mind and body. He also showcased Yogasanas, pranayama and dhyana as per common Yoga protocol issued by the Ayush Ministry, Govt. of India. The Chief Guest himself performed various Yogasanas and motivated the DMSRDE family to maintain excellent physical and mental health through Yoga. DMSRDE personnel also participated in a 'Guinness World Record Attempt' via an online Yoga session on the Ministry of Ayush's YouTube platform.

The celebrations also included the lecture on Yoga, delivered by Yoga expert Shri Anshit from Sadhak Anshit Yoga Foundation, Vishnupuri,

EMU (R&D), Hyderabad

The Estate Management Unit (R&D), Hyderabad, organised the IYD 2026 with enthusiastic participation from DRDO employees, contractual staff, security personnel and residents of DRDO.

The programme commenced with the Common Yoga Protocol, wherein participants performed various Yoga asanas, pranayama, Suryanamaskaras and meditation techniques under the guidance of trained instructors. Addressing the gathering, the Estate Manager, EMU (R&D), Hyderabad, emphasised the significance of Yoga in promoting a healthy lifestyle and enhancing productivity. He encouraged all employees to incorporate Yoga into their daily routine to improve overall health and contribute to a stress-free and harmonious work environment. The event



Kanpur, and a Yoga quiz in which a large number of officers and staff actively participated.

witnessed active participation from personnel across DRDO establishments and residents of the DRDO Township.

GTRE, Bengaluru

Gas Turbine Research Establishment (GTRE), Bengaluru



celebrated the 12th IYD 2026 on 21 June 2026, bringing together employees and their families for a refreshing morning dedicated to health, mindfulness, and well-being. The Yoga session was conducted by Dr Shashikant S Kumbhar, MBBS, MD (Yoga), who guided participants through Yoga postures, pranayama, and meditation while highlighting the importance of Yoga in promoting physical fitness, mental well-being, and stress management. Dr SV Ramana Murty, Director, GTRE, graced the occasion and encouraged everyone to adopt Yoga as a part of their daily lifestyle for sustained health and productivity.

As part of the celebrations, quiz and essay competitions on the theme of Yoga were organized in advance to promote awareness.



HEMRL, Pune

The High Energy Materials Research Laboratory (HEMRL), Pune, celebrated IYD 2026 on 22 June 2026 with great enthusiasm and active participation of more than 170 employees. The programme commenced with an invigorating Yoga session

conducted by the Lele Yoga Group, which has a legacy of Yoga training since 1976. Participants performed various Yoga asanas and breathing exercises under expert guidance, experiencing the benefits of Yoga firsthand.



To encourage awareness and knowledge about Yoga, an online quiz competition was organised, followed by an Essay writing competition on the topic 'Yoga: The Impact on work culture'.

Employees actively participated in these events and showcased their understanding of Yoga, health and wellness. The Officiating Director, Dr Himanshu Shekhar, NDC, Sc 'G' addressed the gathering and emphasised the importance of adopting Yoga as a way of life.

A Yoga expert delivered an informative speech highlighting the significance of Yoga in maintaining a healthy lifestyle, managing stress and enhancing productivity.

O/o DG (ACE), PUNE

O/o Director General (Armament & Combat Engineering) celebrated IYD 2026 on 21 June 2026 in line with this year's theme, 'Yoga for Healthy Ageing'. The theme emphasises

the vital role Yoga plays in promoting lifelong health, mobility and mental well-being for people of all ages. The celebration was inaugurated

by Chief Guest Prof. (Dr) Prateek Kishore, DS&DG (ACE), in the presence of the first lady of ACE Cluster Smt Sangita Kumari, Dr Om Prakash Chourasia, Centre Head, DIHAR, and Yoga gurus Dr Swati Jain and Shri Piyush Jain.

Dr Swati gave a brief introduction about the Yoga practice and its role in helping people stay active, independent and engaged as they grow older. Officials of O/o DG (ACE) and IFA (R&D) participated enthusiastically in the Yoga session. The celebration was concluded with vote of thanks delivered by Shri Dayanand Kumar, Sc 'F'.



ITR, Chandipur

The IYD 2026 was celebrated at Integrated Test Range (ITR), Chandipur, on 22 June 2026. Shri K Suchendar, OS & Director, ITR inaugurated the programme. The Director in his inaugural speech highlighted the need of physical fitness in present era of lifestyle which could be possible through Yoga. Guru Gouranga Charan Bindhani, delivered lectures on Yoga and its effects on human body and soul. He also showcased Yogasanas which were practiced by ITR personnel. All officers and staff of ITR attended the programme.



MTRDC, Bengaluru

The IYD 2026 was celebrated at the Microwave Tube Research & Development Centre (MTRDC), Bengaluru, on 21 June 2026. Ms



Gargi R, certified Yoga instructor from VYASA, Bengaluru, having 15 years of experience in Patanjali, Hatha, Power and BKS, Iyenger Yoga, was the Chief Guest and instructor of the program. She is also the founder of So Hum Kriya Yoga Kendra, Bengaluru, and conducts online and offline Yoga sessions for students in India and abroad. Dedicated to promoting holistic well being, she helps



individual's enhance their physical fitness, mental wellness, and stress management through authentic Yoga practices. The program commenced with the welcome address of Dr SK Datta, OS & Centre Head MTRDC, followed by Yoga session instructed by the Chief Guest.

NMRL, Ambernath

The IYD 2026 was celebrated with great enthusiasm at Naval Materials Research Laboratory (NMRL),

Ambernath, on 21 June 2026. The programme witnessed the active participation of around 50 officers, employees and their family members. The event commenced

with a Yoga prayer, followed by a guided Yoga session conducted by Ms Girija Nambiar, The Art of Living Foundation, Ambernath, featuring various Yogasanas, Pranayama and Meditation. The participants enthusiastically performed the Yoga practices and experienced their physical, mental, and emotional benefits while reaffirming the importance of incorporating Yoga into their daily lives.

NPOL, Kochi

The Naval Physical & Oceanographic Laboratory (NPOL), Kochi, celebrated IYD 2026 during 21-22 June 2026 with informative programmes focusing on the significance of Yoga in everyday life and encouraging a healthier lifestyle among employees and their families. The event was inaugurated by the Chief Guest, Shri Genesh R, Sc 'G', followed by a Yoga session led by Yoga Guru Shri



Dinachandran GB, Joint Director, Patanjali Yoga Research Centre, and his team. The team guided the participants through a series of asanas, breathing techniques (pranayama), and meditation practice suitable for all age groups.

Dr Duvvuri Seshagiri, OS & Director, NPOL, inaugurated the celebration and emphasised the significance of Yoga in promoting physical fitness, mental well-being and a healthy lifestyle. A special Yoga session was conducted by Dr Akhila Vinod, naturopathy doctor and Yoga therapist, who explained the benefits of Yoga and demonstrated various Yoga practices for overall health and wellness.



their family members. Dr RV Haraprasad, DS & DG (NS&M); and Dr Abraham Varughese, OS, Director, NSTL, also participated and performed the common Yoga protocol. Shri A Bharat Raju, Ottawa University, Canada, provided guidance to the experienced and novice practitioners. A number of other activities were also conducted as part of the celebrations, including a one-day practice session of Yoga. Pamphlets of remedies in Yoga for different health issues were circulated. Wide publicity was given for the 'Guinness World Record Event' of online Yoga conducted by

the Ministry of Ayush & Ha Build Health Tech Private Ltd. The maximum number of NSTL employees and their families participated in this programme.

VRDE, Ahilyanagar

On the occasion of IYD 2026, 'Yoga Sapath' was conducted at the Vehicles Research and Development Establishment (VRDE), Ahilyanagar, as per the Govt of India initiative – 'Yoga for Healthy Ageing' – for the health awareness of VRDE employees and their families.

During the week, many programmes were organised. An invited talk by Smt Sunita Wagh,



NSTL, Visakhapatnam

The Naval Science and Technological Laboratory (NSTL), Visakhapatnam, celebrated IYD 2026. A common Yoga programme was conducted with all officers, staff and



Yoga tutor, was also arranged. On 21 June 2026, VRDE employees and their families participated in a 'Yoga' practice session in large numbers.

DMSRDE ORGANISED FIT INDIA CYCLING DRIVE

The Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, organised the special edition of the “Sundays on Cycle” event on 7 June 2026 in observance of World Bicycle Day 2026. The objective of the event was to encourage maximum public participation and promote awareness regarding fitness and healthy lifestyles. In this event, a large number of DMSRDE employees took part diligently along with their bicycles. Children and other family members were also encouraged to participate in the event. Dr Kingsuk

Mukhopadhyay, OS & Director, DMSRDE, inaugurated the event by flagging off the cyclists. He also joined and led the cycling

fleet consisting of around 60 participants. The event was coordinated by Shri Vishal Das, Sc 'F' & Sports Officer.



CYCLE RALLY FOR THE FIT INDIA MOVEMENT AND WORLD BICYCLE DAY 2026

The Naval Physical and Oceanographic Laboratory (NPOL), Kochi, organised a cycle rally on 7 June 2026 in connection with the Fit India Movement and World Bicycle Day 2026. The event was inaugurated by Dr Rema Devi M, Sc 'G', Director (Technology)

and Chairperson of the Works Committee, highlighting the importance of physical fitness, healthy living, environmental sustainability and the role of cycling in promoting the active lifestyle. They covered a distance of approximately 5 km. A large number

of employees enthusiastically participated in the event. The main objective of the rally was to promote fitness and health awareness and also to encourage environmentally friendly modes of transportation. The event was coordinated by the Works Committee, NPOL, Kochi.



WORLD OCEAN DAY 2026

The Naval Physical and Oceanographic Laboratory (NPOL) celebrated World Ocean Day with a special program chaired by the Dr Duvvuri Seshagiri, OS & Director, NPOL on 12 June 2026. The event highlighted the laboratory's commitment to advancing ocean science and its strategic role in national defence. Shri A Raghunadha Rao, Sc 'G' & Associate Director (Ocean Science) presented insights from India's collaborative mission to Vietnam, emphasizing regional cooperation and the importance of shared marine knowledge. Dr Nimmi R Nair, Sc 'G' & Project Director (VARUNAMAALAA), delivered a technical talk on the significance of ambient noise studies, underscoring their role in Sonar

performance and underwater domain awareness. The Director, NPOL stressed the critical importance of ocean knowledge in Anti-Submarine Warfare (ASW), noting that precise oceanographic data and acoustic modelling are vital for strengthening India's

naval capabilities.

The celebration reaffirmed NPOL's dedication to ocean research, innovation, and stewardship, aligning with the global theme of "Awareness, Cooperation, and Action for Our Oceans."



SECURITY SENSITIZATION LECTURE AT NMRL

A Security Sensitization Guest Lecture was conducted at Naval Materials Research Laboratory (NMRL), Ambernath, on 12 June 2026. The lecture was delivered by Lt Col Pradeep Kumar, Joint Director (Security), DMS, DRDO HQ who emphasized the importance of security awareness, protection of sensitive information, and adherence to security protocols. All officers and staff from various departments actively participated, gaining valuable insights into current security challenges and preventive measures. The session reinforced the shared responsibility of maintaining a secured work environment.



NATIONAL TECHNOLOGY DAY CELEBRATION

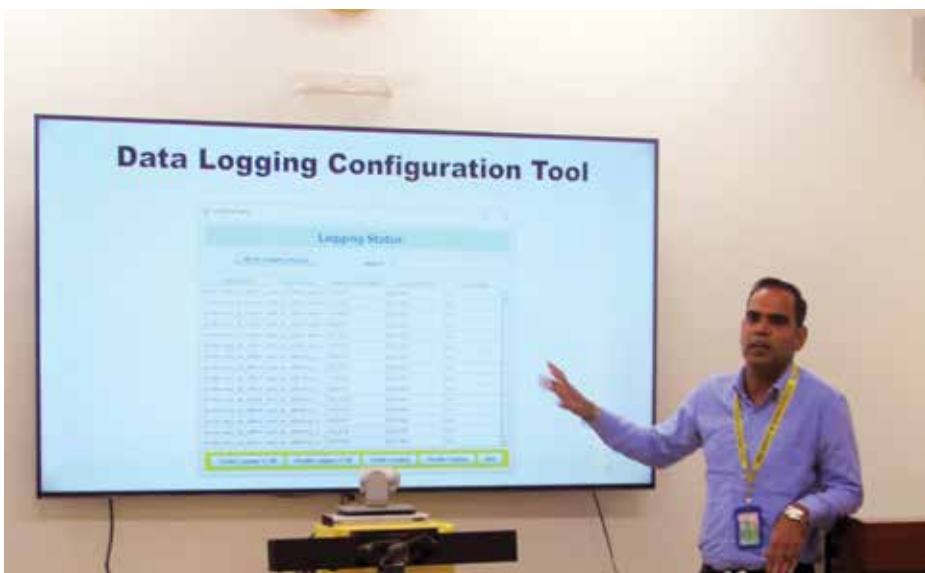
IRDE, Dehradun

Instruments Research & Development Establishment (IRDE), Dehradun, celebrated National Technology Day 2026 (NTD 2026) on 11 May 2026 with great enthusiasm to mark the anniversary of Pokhran Nuclear Tests. Dr Sudhir Khare, Sc 'H' & Associate Director, IRDE, inaugurated the event. He highlighted the importance of the day towards the success and achievements of scientists, researchers, engineers and all others involved in the successful conduction of three nuclear tests at the Indian Army's Pokhran Test Range in Rajasthan. Shri Kanchan Chandra, Sc 'F', delivered the NTD oration 'Wide Area High Resolution Persistence Surveillance System'. He explained in detail that the key parameter of a surveillance camera is the Field of View (FOV), which dictates the range capability of such a system. Dr Khare commended the orator with an NTD medal and certificate.



ISSA, Delhi

The Institute for Systems Studies & Analyses (ISSA), Delhi, celebrated NTD 2026 on 11 May 2026. Shri Vishal Agarwal, Sc 'F', delivered an oration on "From Training to Analysis: Enabling Scalable Data-Driven After Action Analysis & Visualization Framework for Tactical Wargame". The event was attended by all the scientists, service officers and staff



of the laboratory. The Director, ISSA, felicitated the speaker with

the NTD medal and commendation certificate.

CELEBRATION OF 135TH BIRTH ANNIVERSARY OF DR BR AMBEDKAR AT LRDE

Electronics and Radar Development Establishment (LRDE), Bengaluru celebrated the 135th Birth Anniversary of Dr BR Ambedkar on 17 June 2026. Hon'ble Justice BS Patil, Lokayukta, Karnataka, was the Chief Guest, while Shri HD Anand Kumar, IPS, DIG of Police, Karnataka State Cyber Command, attended as the Guest of Honour. Senior officials, scientists, employees and dignitaries participated in the programme.

In his opening remarks, Dr DG Rao, Sc 'G', highlighted Dr Ambedkar's inspiring life, stating that his perseverance, commitment to education and pursuit of justice continue to inspire generations. He noted that organisations like LRDE uphold Dr Ambedkar's principles by ensuring equal opportunities for all.

Shri Sheik Althaf M, OS & Director, LRDE, emphasised Dr Ambedkar's vision of social equality, scientific temper and self-reliance. He stated that Dr Ambedkar recognised the

importance of indigenous defence capabilities and viewed science, education and modernisation as key drivers of national progress. He added that LRDE remains committed to developing technologies that strengthen the operational capabilities of the Indian Armed Forces.

On the occasion, Shri Ashok C and Smt Kanthamma G were felicitated for their significant contribution towards the progress of the SC & ST community in the organisation.

Shri Anand Kumar highlighted Dr Ambedkar's contributions to social reforms and stressed the importance of cyber security in safeguarding national security. Hon'ble Justice BS Patil spoke on Dr Ambedkar's role in framing the Constitution of India and appreciated LRDE's contribution to developing world-class radar systems and defence technologies.

The programme concluded with a vote of thanks by Dr Somsing Rathod, Sc 'F' and President, SC & ST Association, LRDE.



OBSERVANCE OF WORLD ENVIRONMENT DAY

CEPTAM, Delhi

The Centre for Personnel Talent Management (CEPTAM), Delhi, observed World Environment Day on 5 June 2026, based on the current year's theme, "Inspired by Nature – For Climate for Our Future". To mark the occasion,

a tree plantation activity was conducted. Smt Sunita Vadhera, Sc 'G' & Director, CEPTAM, planted a sapling in the office compound and set an example that protecting nature is a shared responsibility of all. Director encouraged all to



be firmly committed to ensuring that this environmental awareness does not remain limited to a single day but becomes a part of our everyday lives.

ITR, Chandipur

A plantation program was conducted to boost a clean and healthy environment within Integrated Test Range (ITR), Chandipur. The Director, ITR, Shri K Suchendar, inaugurated the programme with plantation of fruit bearing saplings. More than 100 saplings of different types of fruit bearing trees were planted.

Team ITR has always been proactive towards protection of environment and cleanliness of the surrounding. The programme was step forward in achieving the moto of clean and green ITR, a world class test range in harmony with environment.

NPOL, Kochi

Naval Physical & Oceanographic Laboratory (NPOL), Kochi, celebrated World Environment Day on 5 June 2024 in association with DRDO Mahila Kalyan Munch (MKM), Kochi Chapter, Bhavans Varuna Vidyalaya, Haritha Kerala Mission and Kent Walk Kochi. The theme for this year is "Inspired by Nature – For Climate for



Our Future", which is focusing on the mitigation of climate change, ecosystem restoration by preserving the forest, and abolishing the use of single-use

plastics for our future generations. A total of 2000 saplings were planted on the campus, and the programme was led by Dr Duvvuri Seshagiri, OS & Director, NPOL.



AWARENESS PROGRAMME ON POSH ACT 2013 AT PXE

An awareness programme on "POSH ACT-2013" was organized at Proof and Experimental Establishment (PXE), Chandipur during 16-18 June 2026. A total of

1000 nos of participants including scientists, technical officers, service personnel, admin personnel, JRF, SRF and apprentices attended the programme. The aim of the

programme was to sensitize the employees of PXE regarding "POSH Act" and ensuring a harmonious and productive working environment in the

organization. The awareness programme was inaugurated by Shri Subodha Kumar Nayak, Director, PXE. Eminent speaker Advocate Shri N Dipesh Kumar Choudhury delivered lecture on the topic POSH Act-2013.



WORKSHOP ON POSH AT MTRDC

An awareness programme and a workshop on “Sexual Harassment of Women at Work Place” was organised at the Microwave Tube Research & Development Centre (MTRDC), Bengaluru, on 7 July 2026. Dr BS Anuradha, registered POSH trainer under Ministry of Women and Child Development, was the Chief Guest and speaker of the event. All the women employees of the laboratory including all DRDS, DRTC, A&A, SRF, JRF, RA, all contract employees of various cadres attended the workshop.



TIER-II RECRUITMENT EXAMINATION SUCCESSFULLY CONDUCTED FOR CEPTAM-11 CYCLE

The Centre for Personnel Talent Management (CEPTAM), Delhi, successfully conducted the CEPTAM-11/Tier-II examination in computer-based test mode on 15 June 2026 at 10 centres across six states in the country flawlessly and without any incidence of unfair means. The examination was attended by 7,259 candidates out of 8,127. Additional security features introduced for the conduct of this examination included matching biometric data of Tier-I and Tier-II exams (fingerprint, iris, and facial recognition). The conduct of the examination at all centres was monitored in real time from the command centre using IP-enabled cameras.





DRDO-CM-SHRI INDUSTRY IMMERSION PROGRAM 2026 AT SSPL: INSPIRING THE NEXT GENERATION OF INNOVATORS

The DRDO-CM-SHRI Industry Immersion Program 2026 was successfully conducted at the Solid State Physics Laboratory (SSPL), Delhi, during 15-19 June 2026. The five-day program, coordinated by Dr Ram Ashish Chouksey, Sc 'F,' brought together 32 students and 5 faculty members to provide firsthand exposure to advanced defence technologies, research culture, and innovation-driven scientific practices. The program commenced with a warm welcome by Dr Pika Jha, Sc 'G' & Group Director, HRD, followed by inspiring interactions with senior scientists who highlighted the pivotal role of S&T in national development. Through lectures, laboratory visits, and interactive sessions, participants gained valuable insights into crystal growth technology, advanced materials, and cutting-edge research being carried out at SSPL.

The immersion program offered a distinctive combination of technical learning and holistic development. Participants attended expert lectures and laboratory demonstrations on

nano- and THz technologies, silicon carbide devices, MMIC technologies, acoustic sensors, MEMS, and advanced material characterization techniques. These sessions helped students connect theoretical knowledge with practical applications in defence and strategic sectors. Hands-on exposure to state-of-the-art facilities and interactions with eminent scientists inspired participants to explore careers in science, engineering, and defense research.

Interactive engagements with senior DRDO leadership, including Dr SK Dwivedi, Director HRV; Dr

Vipin Kaushik, Director, RRIV; and Shri Anup Lal Shah, Officiating Director, SSPL, provided valuable guidance on innovation, leadership, and professional excellence. The program concluded with a valedictory function where participants shared enthusiastic feedback, reflecting on the transformative learning experience. The Industry Immersion Program 2026 successfully strengthened academia-industry collaboration and left students inspired to contribute to the nation's technological advancement through research and innovation.



COURSE ON PERFORMANCE TESTING OF AUTOMOTIVE SYSTEMS OF AFV AT CVRDE

The Combat Vehicles Research & Development Establishment (CVRDE), Chennai, organized a course on 'Performance Testing of Automotive Systems of AFVs'

during 1-5 June 2026. Shri Rajesh Kumar, OS & Director, CVRDE, inaugurated the course. Eminent speakers from CVRDE, institutes, and industries delivered scientific

talks on the latest advances in automotive testing. The participants were provided onsite training on engine, suspension, and cooling system testing. A visit



was organized to CVRDE internal facilities like AFV assembly, aircraft systems testing, EMI/EMC, and environmental testing. An industrial visit to M/s Wheels India Limited and M/s AVNL, Engine Factory, was also organized to have practical exposure for the participants. The course was concluded with a valedictory session where the Director, CVRDE, handed over the course certificates to the participants



after an interactive feedback session conducted by the Course

Director, Smt Rabibunnisa, Sc 'G' & Addl. Director.

SKILL DEVELOPMENT PROGRAM ON ELECTRONIC SYSTEMS DESIGN, FABRICATION & REALIZATION (RF PCB/ MMIC/IC) AT DTTC

A two-day specialized workshop under the Skill Development Program on "Electronic Systems Design, Fabrication & Realization (RF PCB/MMIC/IC)" was organized by the Defence Technology & Test Center (DTTC)-DMSRDE, Lucknow, during 4-5 June, 2026. The program was designed to provide concept-oriented training for both industry professionals and engineering students.

A total of 23 participants, primarily from the electronics discipline, took part in the program. They represented organizations such as Champion Cables (Lucknow), Aryan Exporters (Lucknow), Powerlogixtech (Lucknow), Shalu Products (Lucknow), Star Aerospace (Dehradun), DLRL (Hyderabad), REC (Basti), HBTU (Kanpur), KIIT (Odisha), SRIMT (Lucknow), St. Francis Institute of Technology (Mumbai), and DTTC

Lucknow. The technical sessions were delivered by experts in electronics designing, fabrication, and realization (RF PCB/MMIC/IC) from IIT Kanpur; BEL, Ghaziabad; DEAL, Dehradun; BEL, Bengaluru; IIT-BHU, Varanasi; MNIIT, Allahabad; and IET, Lucknow.

The workshop was inaugurated by the Chief Guest, Dr Kingsuk Mukhopadhyay, OS & Director, DMSRDE. Shri Virendra Prasad,

Sc 'E' & Course Coordinator, provided an overview of the program. In the welcome address, Dr Ashish Dubey, Sc 'G' & PD, DTTC, highlighted DTTC's role in supporting MSMEs and startups and briefed the participants about the Center's technical facilities and mandate.

The technical sessions commenced on the first day with Dr Nagarjuna Nallam, IIT Kanpur, speaking on RF Systems: On-





Board, On-Chip, and In-Package. Shri Nirmal Mundra, Manager, MWC, BEL, Ghaziabad, delivered a talk on Electronic Systems Design,

Fabrication, and Realization (RF subsystems for radars). Shri Sandeep Rastogi, Sc 'E', DEAL, Dehradun, discussed PCB Design

Solutions including Signal, Power & Thermal Integrity, and a special hands-on session was conducted for PCB fabrication.

PERSONALITY DEVELOPMENT PROGRAMME AT DIPR

The Personality Development Programme (PDP) for principals and academic staff of Rashtriya Military Schools from all over India was successfully conducted by the Defence Institute of Psychological Research (DIPR), Soldier Support Systems (SSS) Cluster, Delhi, during 15 to 19 June 2026.

Dr Nishi Misra, Director, DIPR, inaugurated the programme, delivered a lecture and shared her insightful perspectives. The interactive sessions covered diverse themes, including communication skills, partner parenting, pastoral care, conflict resolution, emotional intelligence and other aspects of personality



development. Senior scientists from DIPR delivered lectures and interacted with the participants.

The training methodology incorporated scientific tools, psychometric questionnaires, activity-based learning, group

discussions and analysis of relevant case studies to ensure experiential learning and practical application. The valedictory session was graced by Dr UK Singh, DS & DG (SSS), and Maj Gen Tamojeet Biswas, ADG AE & HOS.

WORKSHOP ON PRECISION NAVIGATION IN DVL-DENIED ENVIRONMENT FOR AUV AT NSTL

The Naval Science and Technological Laboratory (NSTL), Visakhapatnam, organized a one-day technical workshop on "Precision Navigation in DVL-denied Environment for AUV" on 16 June 2026. The workshop was inaugurated and chaired by Dr Abraham Varughese, OS & Director, NSTL. In his address, he highlighted the importance of modeling, control & simulators, sensor fusion, precision navigation with velocity and bias estimation, and UW image enhancement for





AUVs in strengthening indigenous naval capabilities and highlighted NSTL's role in translating advanced research concepts into deployable systems for defence

applications. Shri BVVSS Krishna Kumar (Retd. DRDO fellow), chairman of the CARS Committee, also reviewed the CARS project closure technical session, and

NSTL scientists participated actively in the one-day workshop and technical sessions conducted by the Academic Interaction Office as a part of CARS project closure.

IMMS WORKSHOP AT NSTL

The Integrated Material Management System V2 (IMMS V2) workshop was conducted at the Naval Science and Technological Laboratory (NSTL), Visakhapatnam, during 3-5 June 2026. The scope of this training cum workshop was to make the laboratory's personnel more efficient in using all modules of IMMS version 2. NSTL utilized the presence of ARDE and IMMS admin representatives in learning the "Administrator Module" of it and getting first-hand experience. NSTL Director, Dr Abraham Varughese, GD (MM) Dr PK Pattnayak, and HoD (MM)



Shri SK Panda, along with PDs and TDs, were also given a small demonstration, and they also encouraged the use of IMMS in all steps of procurement from

demand initiation to bill payment. The workshop will enable the NSTL IMMS users and officers to enhance their capability and efficiency in procurement.

PERSONNEL

Following Patents have been granted by the Indian Patent Office for Defence Bio-engineering and Electromedical Laboratory (DEBEL), Bengaluru:

- A patent for "A System and a Method for Real-time Gait Event Detection and Analysis" by Ms Sakshi Agarwal, Mr Vinutha Sampath, Mr Amrit Roy, Mr Jayanth Daniel, Mr Kalathe Mohanavelu from DEBEL and Upendra Kumar Singh from the O/o DG (SSS).
- A patent for "A Method of Fabricating an Oxygen Sensor Assembly" by Dr Joghee Kullian Radhakrishnan, Dr Kamble Sudhir Shridhar and Mrs Nithila of DEBEL.

HINDI WORKSHOPS

DESIDOC, Delhi

A one-day Hindi workshop was conducted by the Defence Scientific Information & Documentation Centre (DESIDOC), Delhi, on 18 June 2026.

The workshop was inaugurated by the Chief Guest & speaker Dr Sanjai K Dwivedi, Director DHRV, DRDO HQ in the presence of Smt Kiran Chauhan, Director DESIDOC; Smt Alka Bansal, Sc 'G'; Dr Md Yusuf Ansari, Sc 'G'; and Shri Tapesh Sinha, Sc 'F'.

Dr Dwivedi delivered a talk on "Role of Rajbhasha Rules in Human Resource Activities". During his talk, he spoke about Rajbhasha, Rashtrabhasha



and mother tongue in a simple way in Hindi and shared his experiences about the importance of language during the Kargil War and released the 26th edition

of 'Gyandeep', the in-house magazine of the DESIDOC. A total of 65 officers and employees from the DESIDOC participated in the Hindi workshop.

DMSRDE, Kanpur

The first Hindi Karyashala during FY 2026 was organized by the Defence Materials and Stores Research & Development Establishment (DMSRDE), Kanpur, on 11 June 2026. The Karyashala was inaugurated by Shri Alok Kumar Dixit, Associate Director, DMSRDE. Smt Shobha Singh, Translation Officer, Small Arms Factory (SAF), Kanpur, was the invited speaker. The workshop was organized for all the DRTC staff of the establishment. In his inaugural address Associate Director appraised the Rajbhasha activities ongoing in the laboratory. Smt Shobha Singh said that the use of Hindi in the technical field in India needs to be popularized. She said that Hindi software and



interfaces should be used in day-to-day life to make Hindi more acceptable to large masses. Smt Usha Suresh, Assistant Director (OL), delivered the vote of thank.

ISSA, Delhi

The Institute for Systems Studies & Analyses (ISSA), Delhi, conducted a one-day Hindi workshop on 5 June 2026. Pt Balkrishan Sharma, a respected expert in Indian Knowledge Tradition, Jyotish Shastra and Vedic Philosophy, was invited to deliver a talk on 'Hindi Bhasha Tatha Bhartiya Gyan Parampara'. Dr Sumant Mukherjee, Sc 'G', welcomed the speaker. During the talk, the speaker highlighted the origin and significance of the Hindi alphabets, and while discussing the Indian knowledge tradition, he acquainted the audience with the importance of Indian culture and civilisation.

In the subsequent session, Pt Sharma elaborated on the relation between Vedic philosophy, the Indian knowledge tradition and the Hindi language. At the conclusion of the workshop, Dr Mukherjee appreciated the insightful talk delivered by Pt Sharma and expressed gratitude to the speaker for presenting the journey of the Hindi language and its alphabets from their origin to the present day in a basic and engaging manner. Officers & staff of the laboratory attended the workshop.

NSTL, Visakhapatnam

To enhance the interest of all officers and staff in Rajbhasha



Hindi and to remove the hesitations occurring while using Hindi in the official duties, a Rajbhasha workshop was organized for all cadres on 30 June 2026 at the Naval Science and Technological Laboratory (NSTL), Visakhapatnam.

The invited speaker was welcomed by Shri Vivek Sharma, Sc 'F' & Rajbhasha Officer. A lecture was delivered by the

invited speaker Shri Aruni Trivedi, AD (OL), Hindi Teaching Scheme, Rajbhasha Vibhag, Ministry of Home Affairs, Visakhapatnam, AP, on the topic "Parliamentary Committee Inspection and Use of Hindi Words" in a single session. An interactive session was also held for the trainees. A total of 35 participants from all cadres enthusiastically participated in this workshop.





SPORTS AWARD-OUTSTANDING SPORTS PERSON - SOUTH ZONE 2025-2026

Dr P Srikrishna, Sc 'G' of the Microwave Tube Research & Development Centre (MTRDC), Bengaluru, was awarded with 'Outstanding Sports Person of South Zone 2025-2026'. He was awarded during the AGM held at Electronics & Radar Development Establishment (LRDE), Bengaluru, on 16 July 2026.



BLOOD DONATION CAMP AT ITR

The Integrated Test Range (ITR), Chandipur, organized a blood donation camp on 3 June 2026. Shri K Suchendar, OS & Director, ITR, inaugurated the camp. Dr Basanta Upadhyay, Head Blood Bank, Dist. HQR Hospital, Balasore, and Dr Niladri Roy, Sc 'G', DOMS ITR, graced the occasion. Director in his inaugural speech, said that the blood being donated gives someone another chance at life. There is no substitution for blood. Everybody should be encouraged to donate blood voluntarily for the noble cause. A number of 350 units of blood were collected during the camp. Many scientists, officers, staff, and ITR fraternity and DSC personnel participated for the noble cause. All the participants



were awarded a certificate. In the end, Director ITR congratulated

all for making the event a grand success.

VISITORS TO DRDO LABORATORIES

CASDIC, Bengaluru

CRPF Gazetted Officers Team on study tour of 'Gazetted Officers Technical Course' visited Combat Aircraft Systems Development & Integration Centre (CASDIC), Bengaluru, on 8 July 2026. Shri Ranjeet Kumar Sinha, Sc 'F', welcomed the team and gave a detailed introduction about the CASDIC, the current status and the products and technologies it has delivered till date. Shri Ravi Kumar Karri, Sc 'F' presented a detail picture of modern avionics to the team. He explained the objective of modern avionics, key characteristics and major functionality of this domain. He also sensitized the team about Transfer of Technology.

Shri Gajendra Singh, Sc 'E' briefed the team about Airborne Jammer Transmitter Technologies. Airborne Jammer System, Jamming Techniques, Evolution of Jammer Transmitter Technologies and Functioning & Calibration of TRM based Transmitters were explained by him thoroughly. The entire session was very interactive. The team visited SUMEDHA Project Rigs, MRES Rig facility, Antenna Test Facility and Pod Integration Workshop.

IRDE, Dehradun

Shri Sanjeev Kumar, IAS, Secretary, Department of Defence Production, visited Instruments Research & Development Establishment (IRDE), Dehradun,



on 25 April 2026. He was welcomed by Dr Ajay Kumar, OS & Director, IRDE. Dr Ajay Kumar presented major R&D initiatives taken by IRDE and technologies developed by IRDE. He also briefed about various products of IRDE which have been developed and inducted into services. Shri Sanjeev Kumar appreciated the

efforts of IRDE in developing state-of-the-art systems.

A guided tour was conducted to the IRDE Diamond Jubilee Gallery under the guidance of Dr Ajay Kumar. Shri Sanjeev Kumar watched the features of the gallery and saw the technology area, which displays all technology verticals along with future roadmaps and



systems. He also saw the system area where all the products of yesteryears have been displayed. He was overwhelmed watching the Down-the-Memory Lane and Lab WOW moments in the gallery. Shri Sanjeev Kumar appreciated the efforts of IRDE in achieving self-reliance for India's defence sector. He wished all the very best to the lab's pursuit of excellence.

NPOL, Kochi

Vice Admiral Sameer Saxena (AVSM & NM), Flag Officer Commanding-in-Chief, Southern Naval Command, Kochi, visited the Naval Physical & Oceanographic Laboratory (NPOL), Kochi, on 9 June 2026. Dr Duvvuri Seshagiri, OS & Director, NPOL; Mrs Rameetha K, Sc 'H'; and Mr Genesh R, Sc 'G', welcomed VAdm Sameer Saxena (AVSM & NM) and briefed him about various ongoing futuristic projects of NPOL. This interaction was followed by a visit to various facilities of NPOL.

VRDE, Ahilyanagar

□ GoC-in-C (Southern Command) Lt Gen Sandeep Jain, AVSM, SM, visited the Vehicle Research and Development Establishment (VRDE), Ahilyanagar, on 14 May 2026. Shri GRM Rao, OS & Director, VRDE, gave a presentation on VRDE-developed products. After that a detailed discussion was carried out during which Lt Gen Jain commended the work carried out by VRDE and suggested that VRDE should also plan for generating standards for military use. He also emphasised that VRDE should further develop unmanned



autonomous ground vehicles. VRDE-developed products– the Advanced Armoured Platform (AAP) (tracked and wheeled) with a crewless turret, the CBRN RV (WH 8x8) and the mounted gun

system – were showcased during the demonstration. Lt Gen Jain appreciated the efforts put in by VRDE for the development of AAP and extended best wishes for future endeavours.



□ Maj Gen R Prem Raj, SM, VSM, ADG (MI), along with Col Karan Chadha, Col Mech-8, Col KV Mahendra, and Col Mech-7, visited the Vehicle Research and Development Establishment (VRDE), Ahilyanagar, on 16 June 2026. Shri GRM Rao, OS & Director VRDE, gave a detailed presentation on the project “Development of Advanced Armoured Platform (Tracked and Wheeled) – VIKRAM VT-21”, in addition to other VRDE-developed

products. He pointed out that both AAP platforms are fully compliant with QRs being finalised by the Indian Army. Maj Gen Prem Raj congratulated the VRDE team (wheeled & tracked) for developing indigenous advanced armoured platforms (wheeled & tracked) in record time and appreciated the concept of a “family of vehicles” taken up by VRDE.

VRDE developed products– AAP (tracked & wheeled) with Crewless Turrets, CBRN RV (Tr)

Mk-II, CBRN RV (Wh), 70 t Tank Transporter and MGS– were showcased during the demo. Maj Gen Prem Raj drove both AAP (tracked & wheeled) platforms and examined the platforms’ performance and functionality of the 30 mm crewless turret. He appreciated the efforts put in by VRDE in realising both platforms at par with internationally available contemporary systems.

