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SUCCESSFUL MAIDEN FLIGHT-TEST OF PHASE-II BALLISTIC MISSILE DEFENCE INTERCEPTOR





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

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SUCCESSFUL MAIDEN FLIGHT-TEST OF PHASE-II BALLISTIC MISSILE DEFENCE INTERCEPTOR

Defence Research & Development Organisation (DRDO) conducted a successful maiden flight-test of Phase-II Ballistic Missile Defence (BMD) interceptor AD-1 missile with large kill altitude bracket from APJ Abdul Kalam Island off the Coast of Odisha on 2 November 2022. The flight-test was carried out with participation of all BMD weapon system elements located at different geographical locations.

The AD-1 is a long-range interceptor missile designed for both low exo-atmospheric and endo-atmospheric interception of long-range ballistic missiles as well as aircraft. It is propelled by a two-stage solid motor and equipped with indigenously-developed advanced control system, navigation, and guidance algorithm to precisely guide the vehicle to the target.

During the flight-test, all the sub-systems performed as per expectations and were validated by the data captured by a number of range sensors including Radar, telemetry, and electro-optical tracking stations deployed to capture the flight data.

Raksha Mantri Shri Rajnath Singh congratulated DRDO and other teams associated with successful flight trial of AD-1. He termed it as a unique type of interceptor with advanced technologies available with a very few nations in the world. He exuded confidence that it will

further strengthen the country's BMD capability to the next level.

Dr Samir V Kamat, Secretary, DD R&D and Chairman, DRDO congratulated his team on the

successful trial, stating that this interceptor having capability to engage many different types of targets, will provide great operational flexibility to the users.



VIGILANCE WEEK CELEBRATIONS

DESIDOC, DELHI

Vigilance Awareness Week is celebrated yearly to create public awareness about the ill effects of corruption. Defence Scientific Information & Documentation Centre (DESIDOC), Delhi observed Vigilance Awareness Week-2022 from 31 October 2022 to 6 November 2022 with the theme 'Corruption Free India for a Developed Nation' as provided by Central Vigilance Commission (CVC). The event commenced with administration of integrity pledge on 31 October 2022 by Dr K Nageswara Rao, Director, DESIDOC and all DESIDOC employees. As part of the celebrations, a quiz was organised on 2 November 2022 and top three scorers were felicitated.

Vigilance awareness lecture



was delivered on 3 November 2022 by Dr Madhu Bhalla, Chairperson Transparency International India, a leading Non-Governmental Organisation (NGO) working

for anti-corruption movement in India. The programme was organized by Shri Raj Kumar, Sc 'E', & Vigilance Officer and his team.

DGRE, CHANDIGARH

Defence Geo-informatics Research Establishment (DGRE), Chandigarh observed 'Vigilance Awareness Week' from 31 October 2022 to 6 November 2022. The theme decided by the Central Vigilance Commission for the year 2022 is 'Corruption Free India for a Developed Nation'.

The week's activities at DGRE commenced with Dr PK Satyawali, Director, DGRE administering the integrity pledge to all the employees. A presentation talk on 'Role of Vigilance in Corruption Free India' was delivered by Shri AK Gupta, Sc 'F', Vigilance Officer, TBRL, Chandigarh.

During the week, various competitions such as poster



making, essay writing, and speech competitions were organised to encourage awareness among the DGRE fraternity, and prizes were

distributed among the winners. The programme was organised by Shri Agraj Upadhyay, Sc 'F', Vigilance Officer, and his team.

NMRL, AMBERNATH

Vigilance Awareness Week was organised at Naval Materials Research Laboratory (NMRL), Ambernath during 31 October 2022 to 6 November 2022. As a part of the celebrations, Shri Jagdish D Satav, Asst. Commissioner of Police, Ambernath Division was invited as Guest Speaker. Shri PT Rojatkar, OS & Director, NMRL welcomed and introduced the speaker.

Shri Satav delivered a lecture on 'Corruption Free India for a Developed Nation' on 4 November 2022 to create awareness among NMRL employees. He also presented his views on various aspects of security and vigilance.



NSTL, VISAKHAPATNAM

As part of Observance of Vigilance Awareness Week (31 October - 6 November 2022) Naval Science & Technological Laboratory (NSTL), Visakhapatnam organised a special lecture on the theme of the Vigilance Awareness Week 'Corruption Free India for a Developed Nation'.

Dr HN Das, Sc 'G' & Technology Director (Vigilance & Security) stressed that vigilance is the only medicine for the disease corruption, in his welcome address.

Shri Venkateswarlu Talluri, Chief Vigilance Officer of Hindustan Shipyard Limited (HSL), Visakhapatnam delivered the guest lecture. In his lecture, he emphasised how to implement vigilance measures in government offices.



He explained in detail various Central Civil Service (CCS) rules on administrative, financial, and material management.

On the occasion, prizes were distributed by the Chief Guest Shri

PVS Ganesh Kumar, Outstanding Scientist & Officiating Director, NSTL, and Shri T Venkateswarlu to the winners of the competitions that were conducted during Vigilance Awareness Week.

3RD DRDO KISAN-JAWAN-VIGYANMELA AT TAWANG, ARUNACHAL PRADESH

The 3rd DRDO Kisan-Jawan-Vigyan Mela was conducted at Defence Research Laboratory (DRL) R&D Centre (RDC) at Changbu in Tawang district of Arunachal Pradesh on 30 September 2022 as a part of the Diamond Jubilee Celebration of DRL, Tezpur. Major events like competition of farm produce, awards for progressive farmers, exhibition, kisansabha, etc., were organised. Shri GS Udawat, Commandant of 38 Bn SSB,

Tawang graced the occasion as Chief Guest.

Shri Rinchin Leta, DC In-charge of Tawang district and Col Dodhy, Dy. Commander of HQ 190 Mtn Bde, Tawang were the Guests of Honour. Dr BJ Gogoi, OIC, DRL RDC Tawang welcomed the guests and participants and gave an overview of DRL activities in Arunachal Pradesh. Dr Ajitabh Bora, Chief Mela Coordinator of DRL apprised about the aim of the Mela. Head of Agriculture &

Allied departments of Tawang district attended as invitees and subject experts. Total 140 farmers participated in the event.

Students from 4 schools participated in science quiz and model competition.

DRDO Kisan-Jawan-Vigyan Mela provided a ground for interaction of farmers and jawans with scientists, which would help in fostering national integration among the villagers in the border region.



DR KALAM ANNIVERSARY CELEBRATIONS

NPOL, KOCHI

Naval Physical and Oceanographic Laboratory (NPOL), Kochi, observed 91st Birth Anniversary of Dr APJ Abdul Kalam on 15 October 2022. On the occasion, the Statue of Dr APJ Abdul Kalam at NPOL façade was garlanded.

Dr Ajith Kumar K, Sc 'G' & Director, NPOL offered floral tribute. This was followed by floral tribute by senior officers and employees of NPOL.



NSTL, VISAKHAPATNAM

Dr APJ Abdul Kalam's birth anniversary was celebrated at Naval Science & Technological Laboratory (NSTL), Visakhapatnam on 15 October 2022. Chief Guest of the occasion was Shri Durgesh Kumar Dubey, Deputy Chairman, Visakhapatnam Port Trust.

Chief Guest in his address expressed that the young generation should follow and make Dr Abdul kalam as their role model.

Dr PVS Ganesh Kumar, Outstanding Scientists and Officiating Director, NSTL, Shri Manu korulle, Dr HN DAS,

Abraham Varugheese, Shri Madhu Kiran, Shri D Sreedhar Patnaik, Shri Ch VSN Murty, President, NSTL Civil Employees Union; Shri Hemant Bais, Secretary, NSTL Civil Employees Union & Works Committee; and officers and staff of NSTL were present on the occasion.



PLOG RUN AT DRL, TEJPUR

Defence Research Laboratory (DRL), Tezpur organised a Plog Run event on 2 October, 2022 under Fit India Freedom Run 3.0 with

the theme 'Azadi ke 75 Saal, Fitness Rahe Bemisaal' at Solmara Cantonment. The members of DRL family and others individual from different offices located at

Solmara participated in the event with full zeal and enthusiasm. This was followed by a cleanliness drive to commemorate the birthday of Mahatma Gandhi.



GANDHI JAYANTHI CELEBRATIONS

Electronics and Radar Development Establishment (LRDE), Bengaluru organised 'Cleanliness Drive' during 2 October 2022 in commemoration of the birth anniversary of Mahatma Gandhi. The drive was led by Dr P Radhakrishna, OS & Director. As part of the drive, cleaning of LRDE campus and surroundings of LRDE was carried out. On 3 October 2022, Director LRDE, officers and staff of LRDE offered floral tribute to Mahatma Gandhi.



NPOL CONDUCTS SCDPM AND CLEANLINESS DRIVE

The Government of India has launched a Special Campaign on Disposal of Pending Matters (SCDPM 2.0) and Cleanliness Drive-2022 during the period 2-31 October 2022. The campaign's main objectives were disposal of pending matters, space management, records management, scrap disposal, and beautification of the building/premises.

Following the campaign, SCDPM 2.0 and Swachhata Drive were conducted NPOL (Kochi). The primary objectives were to minimise pendency, train officers in records management, and digitise physical records for improved records management. The Cleanliness Drive has been taken in complete earnest by officers and staff of NPOL. Digitization of physical files is in progress. NPOL has weeded out more than two thousand physical files during this campaign. NPOL has already conducted three mass cleanliness drives at NPOL on the 2, 14, and 20 October 2022 as part



of this campaign. In connection with the conclusion of the Special Campaign on 31 October 2022, an online MT Vehicle Demand Portal was inaugurated by Dr K Ajith Kumar, Director, NPOL as an initiative to simplify processes.

On the same day, officers and staff of NPOL participated in a mass cleanliness drive of unused land at NPOL premises.

Doordarshan broadcasted the news of these events for 2.50 minutes on DD Malayalam News. Nearly 14 trucks of IT waste and scraps were removed during this special campaign. Since there were no cases to be settled under the disposal of pending matters as mandated under the special campaign, no actions were necessitated.

MES DAY CELEBRATION AT NMRL

Military Engineer Services (MES), established in 1923, is one of the pillars of Corps of Engineers of Indian Army which provides rear line engineering support to Indian Armed Forces. MES

is responsible for design, construction, and maintenance of all works, buildings, airfields, dock installations as well as necessary services such as military roads, bulk water, electricity supply, drainage, refrigeration, and

furniture, required by Army, Navy, Air Force, DRDO, and Ordnance Factories in India. Naval Materials Research Laboratory (NMRL) has organised the MES maintenance mela on 26 September 2022 to celebrate 100th 'Raising Day'

of MES organisation as per the directives of Higher HQ, GE's. The objective of 'Maintenance Mela' was to encourage the beneficiary to register complaints and rectifying the same with the help of skilled labours on top priority. Shri PT Rojatkar, OS & Director, NMRL inaugurated the mela. The beneficiaries were motivated to lodge the complaints for maintenance and repair. Total 37 complaints were registered on this occasion and same were rectified on the same day itself. An active cooperation from beneficiaries, i.e., staff and families staying inside the NMRL campus were inevitable in the success of Maintenance Mela.



DENTAL CHECK-UP CAMP ORGANISED AT NSTL

Naval Science & Technological Laboratory (NSTL), Visakhapatnam organised a Dental Checkup Camp at Family Welfare Center on 11 November 2022.

The Dental Camp was organised by NSTL Works Committee, in association with The Smile Super Specialty Dental Clinic,

Visakhapatnam. Dr Y Sreenivas Rao, Outstanding Scientist & Director NSTL inaugurated the Dental Camp, as the Chief Guest. Dr Y Rajesh Kumar, MDS and Dr Sravan Kumar, MDS & Team of The Smile Super Specialty Dental Clinic supervised the camp with the help of members of NSTL Works Committee-Dr

Manu Korulla, Chairman Works Committee; Dr TVSL Satyavani, Shri Ch Jaya Rao, Shri G Nagabhushanam, Shri SK Sahoo, Shri Ch Chandrasekhara Rao, Shri Anil Kumar, Shri Devidasan, Shri Janakaraj and Ch VSN Murthy, President of NSTL CE Union. Totally 67 employees/family members utilised the Camp.



WORLD QUALITY WEEK CELEBRATIONS

Naval Science & Technological Laboratory (NSTL), Visakhapatnam celebrated World Quality Week during 7-11 November 2022 to raise the level of quality awareness and recognise the efforts and contribution of quality professionals with the theme for this year as 'Quality Conscience: Doing the Right Thing'. World Quality Day is observed every year on the second Thursday in November

The Chief Guest, Dr Y Sreenivas Rao, OS & Director, NSTL and the Chairperson of World Quality Week Cmde Chandra Sekhar, TD (Q&R) addressed the gathering and promoted the awareness and role of quality plays in the



success of an organisation and in the development of individual's prosperity. On the occasion, number of lectures from eminent speakers were organised.

Keynote address was given by Dr A Srinivas Kumar, Sc 'H', TD (B&E) on 'My Experiences with Quality'. He covered two case

studies on estimation of RDX usage in warhead shells and important quality control parameters in manufacturing of Zn-Ago cells/batteries. He also emphasised the role of quality engineers during testing of articles and the quality control parameters for different explosive materials.

ART EXHIBITION AT DEAL, DEHRADUN

An exhibition of Art and Artwork named 'Expression' was organised at Defence Electronics Applications Laboratory (DEAL), Dehradun on 29 September 2022 for the employees, their family members, and superannuated DEAL employees. The exhibition was inaugurated by Shri Krishan Lal, OS and Officiating Director. Total seventeen participants exhibited their artwork in water colour, acrylic, oil paint, shaded pencil sketches, lippan art, bottle art, madhubani paintings, and kalamkaari work. The exhibition was well received by everyone and large number of DEAL employee's family members attended the exhibition.



NATIONAL S&T RAJBHASHA SEMINAR- 2022

Under DRDO Chandigarh Cluster, a two-day 'National Scientific and Technical Rajbhasha Seminar-2022' was organised by Defence Geoinformatics Research Establishment (DGRE) at Manali, Himachal Pradesh during 3-4 November 2022. The Seminar was inaugurated by Chief Guest Dr Shailendra V Gade, Outstanding Scientist and Director General (Armament and Combat Engineering) and Guest of Honor, Dr OP Chaurasia, Director, Defence Institute of High Altitude Research (DIHAR), and Dr Himanshu Shekhar, Director PMO/o DG (ACE), Pune. The Chief Guest commended the efforts



made by DGRE in collaboration with other Chandigarh cluster laboratories of DRDO to organise this two-day national seminar to promote the usage of Hindi in scientific works and wide range

of scientific and technical topics related to defence technologies, cryosphere, natural calamities, energy & food security, general science, medicine, etc. were deliberated during the seminar.

HINDI DIWAS & HINDI PAKHWARA AT DESIDOC

Hindi Diwas and Hindi Pakhwara was celebrated at Defence Scientific Information & Documentation Centre (DESIDOC), Delhi on 16 September 2022 onwards following the guidelines and instructions issued by the official language department of Home Ministry including Directorate of Rajbhasha DRDO. The event was organised successfully by the Rajbhasha Implementation Committee, DESIDOC. The programme was inaugurated by Dr K Nageswara Rao, Director, DESIDOC on 16 September 2022. He addressed to all the officers & staff of DESIDOC and inspired all for using official language Hindi.

Total nine competitions were organised for the officers and



staff of DESIDOC to motivate them to get their official work done in Rajbhasha Hindi. During

the event, 'Vad Vivad' and 'Poster Competition' were the most liked by everyone.

TRAINING PROGRAMME AT GTRE, BENGALURU

Defence Scientific Information & Documentation Centre (DESIDOC), Delhi organised a short-term training programme on 'Maximizing Usage of e-resources using DRDO eLibrary and Writing High-Quality Research Paper' at Gas Turbine Research Establishment (GTRE), Bengaluru on 26 September 2022. Shri MZ Siddique, DS & Director, GTRE delivered the inaugural address. Dr Ramchandra, Sc 'G', GTRE in his address focused on the importance of publications, tools for writing quality research papers.

Dr K Nageswara Rao, Director, DESIDOC explained the status of e-journals consortium, coverage



of e-journals, and publishers, and subscription of various e-books and Standards to the laboratories by DESIDOC. Dr Faizul Nisha, TO 'B' explained the DESIDOC library services. Shri Deepak Kumar Verma, Sc 'D' talked about various publications of DESIDOC,

and how authors submit the manuscript to DRDO scientific journals. Dr Dhanukumar Pattanshetti from IEEE delivered a special address on how to write high-quality research papers. Dr V Senthil, Sc 'F', GTRE proposed the vote of thanks.

TECHNICAL BOOK EXHIBITION AT CASDIC

A Technical Book Exhibition was organised by Technical Information Centre, Combat Aircraft Systems Development & Integration Centre (CASDIC), Bengaluru during 27-28 September 2022. The exhibition was inaugurated by Dr K Nageswara Rao, Director, DESIDOC. Shri CH Durga Prasad, Sc 'G', Centre Head, CASDIC presided over the function. Shri Paranjape Hemant Vasant, Sc 'F' & Chairperson, Library Committee, officers & staff of CASDIC were also present during the inauguration. The exhibition included wide range of books on diverse subjects and received immense response from dignitaries, officers & staff of CASDIC. Shri CH Durga Prasad, Centre Head briefed about various activities of the



laboratory. Smt D Vanitha, Sc 'F', Group Director (P&C) gave an overview about ongoing projects and various products inducted by

the laboratory. A short training programme was conducted by DESIDOC team to Technical Heads and Group Directors of CASDIC.

Dr Rao briefed the participants on subscription of e-resources for DRDO laboratories by DESIDOC. Shri Deepak Kumar Verma, Sc 'D', DESIDOC elaborated the

usage of e-resources under DRDO e-library consortium and writing high quality research papers. He also gave an overview on various DRDO publications.

The entire event was coordinated & conducted by Dr Josephine Nirmala, TO 'B', Officer-in Charge, TIC, and team, CASDIC.

LECTURE AT UNIVERSITY OF DELHI

Dr K Nageswara Rao, Director, Defence Scientific Information & Documentation Centre (DESIDOC), Delhi delivered a lecture on 'Atmanirbhar Bharat: Role of Research & Innovations' during an International Conference on 'Infrastructure, Information and Innovation for Building New Bharat'. The conference was jointly organised by Gandhi Bhawan, University of Delhi, and Gandhi Smriti and Gandhi Darshan in collaboration with Delhi Library Association & Satija Research Foundation for Library & Information science. Dr Rao in his address focused



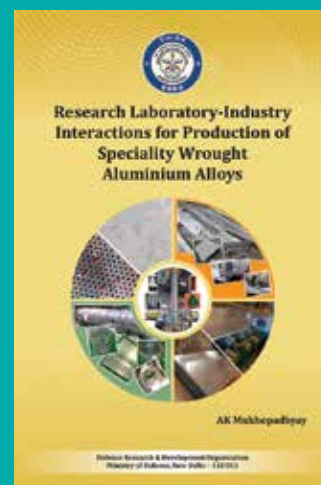
on role and achievements of DRDO and its recent initiatives for building Atmanirbhar Bharat. During his address, he also

emphasised that the DRDO is working not only for the Indian Armed Forces but also for the betterment of civil society.

DRDO MONOGRAPH FOR SALE

By virtue of several decades of fundamental and applied research carried out on a variety of wrought aluminium alloys, the Defence Metallurgical Research Laboratory (DMRL), Hyderabad has developed a comprehensive understanding of the microstructure-property relationships in these alloys. This Monograph discusses first the fundamental basis of aluminium alloy design with emphasis on the role of major and minor alloying elements, the influence of impurities, and the effects of variations in thermo-mechanical processes and heat treatment tempers on the development of microstructure and desired engineering properties in such alloys.

The Monograph describes next the efforts and achievements made by DMRL on the technology development and the industrial scale production of lithium-free speciality wrought aluminium alloys using the existing infrastructure in the country for crucial defence applications. Such applications include areas of armament, ammunition, missile, naval vessel, infantry combat vehicle, indigenously built fighter aircraft, military bridge, etc.



Cost: INR 1700/- US \$ 35 UK £ 33

For Purchase, contact:
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marketing.desidoc@gov.in; 011-23902612

BEST PAPER AWARD IN CORCON 2022

Dr R Balaji Naik, Sc 'E' of Naval Materials Research Laboratory (NMRL), Ambernath received the Best Paper Award-2022 for his research article on 'Novel Foul Release Coatings for Underwater Hull of Naval Ships'. The article was presented during 28th International Conference and Expo on Corrosion (CORCON 2022) during 19-22 September 2022 at Udaipur, Rajasthan.

The award was presented by Dr KB Singh, Chairman AMPP Gateway India Section during the valedictory programme on 22 September 2022.



DRDO SOUTH ZONE TT TOURNAMENT 2022-23

Combat Aircraft Systems Development & Integration Centre (CASDIC), Bengaluru successfully organised DRDO South Zone Table Tennis Tournament 2022-23 during 12-14 September 2022. Shri CH Durga Prasad, Centre Head (CASDIC), AVM Umesh Kumar, Director IAF-PMT (ECS) and Shri Lakshman, Sc 'F', CAIR, Chairman (SZSC) inaugurated the tournament. Total 11 South Zone laboratories with 44 DRDO personnel participated in the tournament. Gas Turbine Research Establishment (GTRE) won the team championship and Aeronautical Development Establishment (ADE) was the runner-up. The Valedictory function was concluded in the presence of Centre Head



(CASDIC), Air Cmde K Appa Rao and Chairman (SZSC).

FIRST LADY, DRDO LAUNCHES HULL MODULE OF NPOL'S SPACE FACILITY

Adding to its array of R&D facilities for underwater acoustics, the Naval Physical and Oceanographic Laboratory (NPOL), Kochi established a new facility called 'Submersible Platform for Acoustic Characterisation & Evaluation (SPACE)' at its Underwater Acoustic Research Facility (UARF), at Kulamavu, Idukki in Kerala. The facility is constructed by M/s L&T Shipbuilding, Chennai based on the concept design and requirements projected by NPOL.

Kick-starting the construction activities at Idukki reservoir, the Hull Module of the SPACE facility was ceremoniously launched on 29 October 2022, by Smt Smita Kamat, the First Lady of DRDO, in the esteemed presence of Dr Samir V Kamat, Secretary, Department of Defence R&D and Chairman, DRDO.

As the Chief Guest, Dr Kamat highlighted that this R&D facility



would provide a significant boost for the 'AatmaNirbhar Bharat' and India's 'Make in India' commitment. Dr K Ajith Kumar, Director, NPOL congratulated the project team members for realising the project and lauded the effort put forward by L&T Shipbuilding

in designing such a system. He added that the facility would be mainly utilised for evaluating sonar systems, allowing for quick deployment and easy recovery of scientific packages such as sensors and transducers.

The Project Director (SPACE), Shri Sameer Abdul Azeez highlighted the various features, including the various R&D equipment, scientific laboratories, and other technical facilities. He made special mentions about the local body representatives, the District Administration, Kerala Police Department, Kerala Dam Safety Authority, Kerala State Electricity Board, Forest, and Wildlife departments, and Pollution Control Board, whose timely efforts and support made possible the realization of a significant milestone towards a one-of-a-kind facility in the world.



ESTABLISHMENT OF APRICOT PROCESSING PLANT AT NIMOO, LEH

Defence Food Research Laboratory (DFRL), Mysuru established an apricot processing plant at Nimoo, Leh for development of various value added products from Apricots. The processing plant was inaugurated by Hon'ble Lieutenant Governor of Ladakh, Shri RK Mathur on 24 August 2022. Chairman, LAHDC Leh, Advocate Tashi Gyalsong; MP Ladakh, Jamyang Tsering Namgyal; Executive Councillors Ghulam Mehdi, Stanzin Chospheh, and Advisor Umang Narula were also present during the inauguration.

Dr Anil Dutt Semwal, Director, DFRL and Dr OP Chaurasia, Director, DIHAR briefed about the plant, and its working. The A Plant is a joint initiative between



DRDO and UT Administration to demonstrate complete supply chain management of apricot, including post-harvest management. The establishment of this processing facility will

reduce post-harvest losses and will also provide world class value added products from apricots besides improving the livelihood of the local farmers and promoting employment generation.

VISITORS TO DRDO LABS

CASDIC, BENGALURU

Rear Admiral AN Pramod, ACNS (Air) and his team visited Combat Aircraft Systems Development & Integration Centre (CASDIC), Bengaluru on 23 August 2022. Shri CH Durga Prasad, Centre Head, CASDIC gave a brief on various activities of the laboratory contribution towards Naval platforms. Smt D Vanitha, GD (P&C) along with Shri Hemant Paranjape, Wing Head (EWAT) gave presentation on ongoing activities and planned future projects of the laboratory.



DEAL, DEHRADUN

Senior officials from Ministry of Home Affairs (NSG, BSF, ITBP, CISF, CRPF & IB) and Director, Directorate of Low Intensity Conflict (LIC), Shri Sangita Rao Achary Addanki visited Defence Electronics Applications Laboratory (DEAL), Dehradun on 23 September 2022.

Shri Krishan Lal, Sc 'H' & Officiating Director, DEAL extended a very warm welcome to all the dignitaries and broadly emphasised on the expertise of DEAL in developing systems/technological solutions for deployment in the border areas and LIC areas. He requested for inputs on the advanced requirements from MHA to enable DEAL to focus and deliver high-end technological solutions. This



Shri Krishan Lal, Sc 'H' & Officiating Director, DEAL interacting with MHA officials

was followed by presentation highlighting laboratory's vision, mission, charter, technology focus

areas. The delegates expressed their interest in the products developed by DEAL.

DFRL, MYSURU

Vice Admiral Deepak Kapoor, Controller of Logistics, Indian Navy visited Defence Food Research Laboratory (DFRL), Mysuru on 16 September 2022. Dr Anil Dutt Semwal, Director, DFRL, welcomed the guest and Dr R Kumar, Sc 'F', Associate Director, DFRL, made a detailed presentation on DFRL R&D activities, i.e., ration development, indigenisation of food processing equipments, instant & convenience food products, Gaganyan mission, food packaging technologies, training of troops, etc.

After the interaction, Vice Admiral Deepak Kapoor visited Exhibition Hall, R&D facilities of DFRL and appreciated the products and technologies



developed by DFRL to meet food logistic requirement of Indian

Armed Forces.

DRL, TEZPUR

Lt Gen RP Kalita, UYSM, AVSM, SM, VSM, GOC-in-C, Eastern Command, visited Defence Research Laboratory (DRL) Tezpur on 14 October, 2022. He had a meeting with Dr UK Singh, OS & Director General (Life Sciences), DRDO HQrs, New Delhi and Dr DV Kamboj, Director DRL, Tezpur on the operational requirement of troops especially in NE India. Director, DRL briefed about the activities of the laboratory followed by presentation on various DRL projects and products. GOC-in-C showed keen interest in products and emphasised to work towards enhancing civil military fusion in border villages of Arunachal Pradesh.



IRDE, DEHRADUN

Directorate of Low Intensity Conflicts (DLIC) organised a meeting-cum-demonstration to enhance MHA and DRDO collaboration at Instruments Research & Development Establishment (IRDE), Dehradun on 22 September 2022. MHA officials including officers from NSG, BSF, ITBP, CISF, CRPF, IB and SSB interacted with IRDE scientists who showcased the IRDE equipment to MHA officials.

All MHA officials appreciated the research work being carried out by IRDE. Director LIC re-emphasised the need further enhancing the collaboration in order to meet the futuristic requirements of all CAPFs.

