



DRDO

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DRDO Bhawan, New Delhi

DMRL Celebrates Golden Jubilee

Defence Metallurgical Research Laboratory (DMRL) is celebrating its 50th Raising Day on 26th October. Shri Avinash Chander, Scientific Adviser to Raksha Mantri, Secretary, Defence R&D and Chairman, DRDO will be the Chief Guest and Dr. V. Bhujanga Rao, Director General (Naval Systems and Materials) will be the Guest of Honour in the Golden Jubilee Celebrations. To commemorate this momentous occasion, the Laboratory is also organizing a two day seminar entitled "Materials Technologies for Defence: Success Stories and Road Ahead" on 25th and 26th October. The primary objective of this seminar is to bring together all the stakeholders in the development of materials technologies for defence i.e. Services, Systems Laboratories of DRDO, Laboratories from Materials Cluster of DRDO, Defence PSUs, Ordnance factories, Industry and Academia. The seminar will not only highlight the success stories, both past and present, but also focus on the challenges ahead to meet the materials requirements for next generation defence systems. The seminar will also help build linkages for collaboration in the development of futuristic materials technologies.

Supplementary information

About DMRL

DMRL was established at Hyderabad in 1963 to meet the needs of complex metals and materials required for modern sophisticated warfare weapons systems. Over the years, the Laboratory has acquired a special status as a premier centre for R&D in metals, alloys, ceramics and composites. Since its inception, the Laboratory has developed and established a number of frontline technologies in the area of metallurgy and materials science. An infrastructure of advanced experimental facilities has been evolved over decades. The developments at DMRL have led to creation of new technology and production centres in the country. They are – Mishra Dhatu Nigam (Midhani), Non-Ferrous Technology Development Centre (NFTDC) and International Advanced Research Centre for Powder Metallurgy and New Materials, all at Hyderabad and Heavy Alloy Penetrator Plant (HAPP), an Ordnance Factory, at Tiruchirapally.

Major contributions of DMRL in the last five years

In recent years, the laboratory, in collaboration with SAIL, NMRL and Indian Navy, developed a naval grade steel 'DMR-249A', which was produced by SAIL in thousands of metric tonnes, was used by Cochin Shipyard for the construction of INS Vikrant II, the first indigenous aircraft carrier, floated on August 12, 2013. Also, DMRL in collaboration with Vikram Sarabhai Space Centre established the country's first 500 tonne per year titanium sponge production facility at Kerala Minerals and Metals Limited, near Kollam, thus making India self sufficient in titanium raw material that is required to make light weight and strong aerospace components. The laboratory recently transferred the technology of 'investment casting of nickel base superalloys' for producing turbine components for the country's first aeroengine programme 'Kaveri'. Other important materials developed by the laboratory being used in defence systems are: light weight armour for helicopters, improved Kanchan Armour for MBT Arjun MkII, rare earth permanent magnets for accelerometers and brushless DC motors etc.

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