

Profile

Shri KPS Murthy

Director, HEMRL, Pune

Shri KPS Murthy assumed the charge as the Director of High Energy Materials Research Laboratory (HEMRL), Pune on 1st August 2015. Prior to his appointment as Director HEMRL, he has served as Associate Director of Armament Research & Development Establishment and successfully steered the design & development of warheads and fuze projects for rockets, missiles, Torpedoes and bombs.

An IIT Kharagpur alumnus, Shri Murthy started his scientific journey with ARDE and made outstanding contributions in the design & development of warhead subsystem of various missiles such as Prithvi, Akash, Nag, Air Defence, Nirbhay etc. He was instrumental in developing many advanced warhead technologies like Detonation wave aiming, Deep penetration, Thermobaric warheads and High performance Shaped charges.

A self-reliance evangelist, he has successfully spearheaded several ToTs to Ordnance Factories and encouraged private participation in development & production activities.

In his career spanning 27 years, he has pioneered and innovated Variable Mass Preformed Fragmentation concept for developing Fragmentation warheads, Tandem Warhead for 3rd generation anti tank missile system, Penetration cum blast submunition warheads, Fragment Generator for Ballistic Missile Defence (BMD) applications, Directional blast and Shaped charges for under water application, novel PCB & TB ammunition for MBT Arjun, 500 kg General Purpose and Pre-Fragmented Bombs, Submunition warheads for Rockets, pyro operated safety arming mechanisms (SAM) , impact delay fuzes for various weapon system.

He has published more than 50 technical papers in reputed national & international journals, seminars and symposiums. There are 8 patents to his credit.

He is the recipient of many prestigious awards including: **DRDO Agni Award for Excellence in Self Reliance** in 2014, 2009 and 2005, **DRDO Award for Performance Excellence** in 2016, 2014, 2012, **DRDO Award for Path-Breaking Research/Outstanding Technology Development** in 2008, **DRDO Scientist of the year Award** in 2008, **Dr Biren Roy Trust Award (AeSI)** in 2007, **DRDO Lab Level Technology Group Award** in 2006.

He is a Fellow of Aeronautical Society of India (AeSI) and leading Pune Chapter as Vice President, Life Member of High Energy Material Society of India (HEMSI), leading as President at the National level. He is also a Life Member of Indian National Society for Aerospace and Related Mechanisms (INSARM) and leading the INSARM Pune Chapter as President and as Vice Chairman at the National level.