



**Dr. Himanshu Shekhar,
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Dr. Himanshu Shekhar is working as Scientist 'G' and Group Director at **High Energy Materials Research Laboratory (HEMRL)**, one of the premiere research institutions under **Defence Research and Development Organization (DRDO)**. He joined HEMRL, Pune in 1994 as Scientist 'B' and has contributed significantly in creation of infrastructure for processing large size case bonded rocket motor processing facilities in DRDO for the first time for a strategic system. He was awarded with **"Agni Award for Excellence in Self-Reliance"** in **2001** for his contributions. Later on, he has contributed for **design and fabrication of rocket propellant processing devices, modeling and simulation of propellant processing, internal ballistic predictions for gun and rockets, structural integrity analysis for rocket propellants, mechanical characterization of solid propellants, Instrumented testing of critical systems, development of data handling and prediction software** etc. He was awarded with **"Mr Engineers 2003"** by **Institution of Engineers (India), Pune Chapter** for his effective and substantial contributions in the area of engineering. DRDO has awarded him with **"Science Day Oration Award – 2003"** for structural integrity analysis of case-bonded solid rocket propellants. He is the recipient of **DRDO's Young Scientist Award**, also. His articles and presentations in Hindi and English have been awarded by many other forums on several occasions.

Before joining DRDO, Dr. Shekhar secured first rank with distinction in graduation. He scored **99.57 percentile in GATE** and Joined **IIT, Kanpur**. He completed his **M.Tech. with CPI of 10.00 out of 10.00 with dissertation topic "Finite Element Analysis of External Brake as a Contact Problem"**. During Service, he joined for doctoral research at COEP, Pune under Dr. Anil D. Sahasrabudhe (now Director, AICTE) and completed in two years time with topic **"Mechanical Characterization and Fracture Behaviour of Advanced Solid Propellants"**. Till date, he has to his credit **136 technical Research Papers in international and national journals and seminar proceedings, 11 Books on science and technology subjects, 1 chapter in a multi-volume set on Nano-Technology, 61 classified technical reports, 90 invited talks, and 80 technical papers in Hindi**. One of his Hindi books has been conferred with **Rajbhasa Pustak Puraskar in 2010**. He is a life member of **High Energy Materials Society of India (HEMSI)** and **Aeronautical Society of India (AeSI)**. He is on the editorial board of **international peer reviewed journals "Central European Journal of Energetic Materials" and "Bioglobbia"**. He is nominated Correspondent of **"Technology Focus"**, a magazine published by DESIDOC, DRDO, Delhi. He has taught **"Combustion of High Energy Materials"** to M.Tech and Ph.D. Students at DIAT(DU), Pune and has been a faculty (**Thermodynamics, Propulsion, Composite Materials, Rockets and Missiles**) at IGNOU-center for B.Tech. in Aerospace Engineering.

He was deputed to **FR&PC, Altai, Russia** as expert for pre-dispatch inspection of vertical planetary mixer for propellant processing. He is nominated member of joint working group for collaboration with USA. Currently, he is engaged in development of **battlefield protection systems** for tanks and aircrafts through **camouflaging smoke, Infrared decoy flare and microwave attenuating chaff cartridges**.