

BRIEF BIODATA: DR. SANJAY RANA



Dr. Sanjay Rana – Pioneering Geophysicist, Technological Visionary, Knowledge Ambassador and Champion of Sustainable Innovation.

Dr. Sanjay Rana, a Professional Engineer (PE) certified geophysicist and gold medalist from IIT Roorkee, is widely recognized as a trailblazer in engineering and applied geophysics in India. With over 35 years of pioneering contributions, he stands at the forefront of integrating geophysical science with critical infrastructure, environmental stewardship, and national development.

As the Managing Director of PARSAN Overseas Pvt. Ltd., Dr. Rana has spearheaded more than 2,000 successful projects across India and abroad, including regions such as Afghanistan, Bahrain, Singapore, Qatar, Saudi Arabia, Nepal, Bhutan, and Kuwait. His deep, cross-disciplinary expertise spans engineering, environmental, mining, and groundwater geophysics, positioning him as a strategic advisor and technical authority for government bodies, public sector undertakings, private corporations, and international institutions.

Beginning his career with the Uttar Pradesh State Government and the Department of Atomic Energy, Dr. Rana took a bold entrepreneurial leap in 1995, founding India's first private company dedicated exclusively to engineering geophysics. Through PARSAN, he has been instrumental in introducing transformative technologies to the Indian subcontinent - such as Ground Penetrating Radar (GPR) in 1996, Dam Geophysics in 1998, Passive Seismic Tomography, and the now widely adopted Subsurface Utility Engineering (SUE).

Dr. Rana's influence extends beyond the field, integrating seamlessly into the regulatory and academic realms. He has authored several national guideline documents for geophysical investigations pertaining to tunnels, dams, bridges, and underground utilities, published by esteemed institutions including the Indian Roads Congress (IRC), Bureau of Indian Standards (BIS), IndSTT, and the Tunneling Association of India. He also serves as an active member of numerous standardization and professional bodies, playing a pivotal role in developing codes of practice for the sector.

A committed environmentalist, educator, and humanitarian, Dr. Rana founded the Aqua Foundation in 1998, an NGO working at the intersection of water, sustainability, and social impact. He continues to mentor young geoscientists and delivers trainings and guest lectures across India and internationally.

Today, Dr. Rana remains an unwavering advocate for technology-driven, non-invasive geophysical solutions, playing a defining role in strengthening civil, hydropower, oil & gas, and smart infrastructure projects - ultimately shaping the geophysical landscape of India and the Global South.