



SINGH, Dr. Rajbal

Consultant & Faculty (Rock Mechanics and Concrete Technology)

Top Level Expert, WAPCOS Ltd.

Formerly Joint Director & Head of Rock Mechanics, CSMRS

Dr. Rajbal Singh is former Joint Director and Head of Rock Mechanics in CSMRS, New Delhi. Also, he had been Head of Quality Control and Instrumentation for construction of 1020 MW Tala Hydroelectric Project, Bhutan. He graduated in Civil Engineering from Panjab Engineering College, Chandigarh in 1977. He completed M. Tech. during 1979 and Ph.D. during 1985 in Rock Mechanics from I.I.T. Delhi. He joined Central Soil and Materials Research Station (CSMRS) in 1985. He has extensive experience in the field of investigations of hydropower projects, material testing and its interpretations, quality control, instrumentation and concrete technology. Presently, he is engaged as a Top-Level Expert in WAPCOS Ltd and very actively involved in the construction of many prestigious projects in India, Bhutan, Myanmar Nepal and Afghanistan. He has been involved in investigations of about 200 hydroelectric projects and 330 technical reports are to his credit. He visited Norway and USA on UNDP Fellowships and has been to Norwegian Geotechnical Institute on a prestigious Research Fellowship during 1999. Several times, he has been to Nepal, Bhutan, Myanmar and Afghanistan as consultant of Rock Mechanics. He holds key positions in various professional societies and was president of Indian Society for Rock Mechanics and Tunneling Technology (ISRMTT) during 2011-13. He received ISRMTT Award on “Outstanding Contribution to Rock Mechanics” in 2006, IGS Delhi Chapter “Leadership Award” in 2007 and was honoured with “Life Time Achievement in Rock Mechanics” and “Fellowship” on 4th November 2019 by ISRMTT. He has published 230 research papers and has received best paper awards for his 22 papers. He has been editor of 10 Proceedings of National and International Conferences. He has delivered more than 200 technical lectures.

His specialisations are hydropower development, deformability of rock mass, In-situ stress measurement, shear strength parameters, instrumentation, numerical modeling (FEM, BEM, FEBEM and UDEC), laboratory testing, rock mass classification, landslide hazards mitigation, rockfill technology, concrete technology, quality control of hydroelectric projects, DPR, review of papers for journals, organising conferences and training programmes.