

RESUME

Shri M. Raju, Director in Geological Survey of India, carried out geological and geotechnical studies for many civil engineering projects. The studies were immensely useful in formulation and execution of projects and to adopt safe and economic measures. He delivered about 150 progress reports besides several scientific papers published in various journals. Associated with field aspects of projects in the Himalayas (Uttarakhand and North Eastern Region) as well as in the shield area (Andhra Pradesh).



Geotechnical studies carried out at Srisailem Left Bank Underground Hydroelectric Project, a major assignment in which, massive excavation was involved for locating large underground power house complex and pressure tunnel system. His contribution was noteworthy at other prestigious projects like Nagarjunasagar Left Canal Hydroelectric Project, Yeleru Reservoir Project where tunneling and massive underground work was involved. Besides, geotechnical studies carried out at Telugu Ganga Project Dam foundations, slope stability studies conducted along Srisailem left branch canal and Telugu Ganga Project canal systems are noteworthy. The geotechnical works carried out at Srisailem were appreciated on different occasions by the officials and consultants of the World Bank and O.E.C.F., Japan, the funding agencies of the projects concerned. He was also associated in geotechnical investigations of Vishnuprayag hydel scheme and many other river valley projects in Alaknanda and Dhauliganga valleys in the Central Himalayas. He was also associated in monitoring Engineering Geological investigations being carried out in neighbouring countries by the officers of the Geological Survey of India.

He also worked out a novel methodology of landslide hazard zonation by using geocoded IRS imageries to meet the serious demand for study of landslides both at regional level and at site specific in the northeastern hilly terrain of the country. The system developed was extremely effective in assessing the terrain and to delineate potential landslide hazard zones. The studies are useful to the government and other concerned agencies as an important base-line document for their developmental activities at appropriate places.

Presently, Shri Raju is associated with Monitoring of assignments pertaining to mainly Engineering Geology and Landslide studies in the Geological Survey of India.