



Dr. S.N. Chaturvedi

Dr. G. R. Udas - Dr. K. K. Dwivedy Medal

Dr. S. N. Chaturvedi joined Atomic Minerals Directorate for Exploration and Research in 1987 after obtaining M. Sc. in Geology and Ph. D. on “Neogene Planktonic Foraminiferal Biochronology and Paleooceanography of DSDP sites along Ninetyeast Ridge, Northern Indian Ocean” from Banaras Hindu University (BHU), Varanasi. He has since been engaged in exploration for uranium, rare metals and rare earth elements, in diverse geological domains of Central and Northeastern India.

His dedicated work in the Proterozoic Abujhmar, Indravati and Sukma basins of Bastar district, Chhattisgarh has revealed a large number of uranium mineralisations, some of which explored in detail including sub-surface exploration. Recognition of komatiite, for the first time by him at the base of Abujhmar Group, is a significant contribution to the geology of Bastar Craton. Occurrence of ultrapotassic and ultra-aluminous hybrid rock at the unconformity of Indravati basin containing anomalous concentration of uranium is also significant. Uranium exploration in Rajnandgaon and Balod districts have led to sub- surface exploration around Nalpani, Khairagarh Basin, where work is still continuing.

He carried out uranium exploration in Meghalaya under project Mahadek covering the areas of Jaintia Hills, East Khasi Hills, West Khasi Hills and Garo Hills and recorded new uranium mineralization in Late Cretaceous Lower Mahadek karkosic sandstone in Pynursla, Cherrapunjee and Mawsynram plateaus of East Khasi Hills and in Balphakram Plateau of South Garo Hills. His work helped in extending the limit of Mahadeks to 20 km (now 200 km E-W) in east beyond Parang, Jaintia Hills and in west upto Balphakram Plateau, Garo Hills.

Dr. Chaturvedi represented AMD in DAE’s discussion meet on “Developing our Collective Vision for the Future” organized by BARC, Mumbai, where he proposed “Energy vision under fuel cycle of DAE” and presented the ideas on “Targeting and Identifying high grade large tonnage uranium deposits in India”. As a member of the National Natural Resource Management System (NNRMS – Pilot Project), he participated in the meetings of co-ordinators of Project GEOISMM (Geological Information System for Maharashtra and Madhya Pradesh). He prepared exhaustive Status Reports on “Mahadeks of Meghalaya”, ‘Bodal-Bhandaritola uranium deposits’ and ‘Dongargarh-Kotri Belt’ after compilation of all available data and reports pertaining to these areas.

He also has vast experience in exploration of Rare Metals and Rare Earth (RMRE) elements in Maharashtra, Madhya Pradesh and Chhattisgarh and established reserves of columbite-tantalite in eluvial pegmatitic gravels and xenotime concentrates in alluvial riverine placers. Presently he is engaged in planning, co-ordination and monitoring the progress achieved in various projects/investigations to prepare various reports of the directorate and updates the ore reserves of Uranium, Rare Metal Rare Earth (RMRE) and Beach Sand Mineral (BSM).

In order to support Research and Development activities in AMD, he co-ordinates AMD Studentship Programme, BRNS Projects given to different universities and results thereof. Dr. Chaturvedi is faculty for teaching uranium geology in BARC Training School, AMD Campus and an Adjunct Professor, HBNI. He is a recognized Supervisor for Ph. D. at Geology department, RTM Nagpur University. He has an excellent aptitude for research work and has published/presented 45 research papers in referred journals and national/international symposia.