

HS Pareek Award-2010



NGRI scientists Drs. N.S.K.Murthy, V.Ananda Rao (both retired) Dewashish Kumar, K.K.K.Singh and Shakeel Ahmed received HS Pareek Award-2010 on 12th October, 2010 during the 51st Annual General Meeting of Geological Society of India at Bangalore for their paper entitled “Use of Electrical Resistivity Tomography in Delineation of Various Geological Structural Features and Formations in different Terrain”. They received the award from Prof K.S.Valdiya, INSA Golden Jubilee Research Jawaharlal Nehru center for Advances Scientific Research, Bangalore.

The award winning paper deals with an experimental study using Electrical Resistivity Imaging (ERI) which was carried out in coal mining areas near Dhanbad, Jharkhand state, India, to find out the feasibility of finding the barrier thickness and the water logged area in underground coal mines. The ERI technique uses high-density data acquisition both laterally and vertically due to the advantage of multiple number of electrodes. Along with ERI, mise-à-la-masse (also called charged body) technique was also employed at one of the promising sites to find out the connectivity of water logged areas and detection of these old workings from the surface measurements was analyzed. The interpreted 2D resistivity sections have clearly indicated the water bearing zone(s) along the profile which was confirmed with the water level measurements in the nearby borewells.