

PI Name: Ashish Pippal

Project Title: Sub-Surface deformation study and monitoring of Narendra nagar landslide area using acoustic emission sensor system

Client: M/s SSPL-DRDO, New Delhi

Objective: Assistance in identification & finalization of material for active waveguide formation including the filler material and casing. Installation of automatic gauge stations for recording of real time rainfall pattern around the slide zone. Drilling of new boreholes for obtaining the geotechnical parameters through collected disturbed & undisturbed soil/rock sample. Establishing the control room for real time data recording of Acoustic Emission (AE) Sensor system/ Automatic weather stations. Installation of Acoustic Emission (AE) Sensor system in the new/existing boreholes and real time recording of deformation, if any. Upgradation/Creation of surface deformation monitoring setup by construction/fabrication/installation of Steel markers on the slope area for surface monitoring Total Station. Collection, processing and interpretation of real time instrumental recorded data of surface/subsurface for the prediction of slope movements Preparation of project report for development of landslide early warning system.