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Use of Appropriate Geophysical Technique for Subsurface Assessment Birendra Pratap*, Hari Dev, Rajbal Singh

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ABSTRACT

The use of appropriate geophysical technique is generally a two-step approach. In step-1, potentially useful geophysical techniques are identified on the basis of the nature of the engineering problem. This is summarized in update reference table and provides initial high grading of application. In step-2, the most appropriate geophysical technique is selected based on site-specific criterion such as the depth of the target, required resolution, site accessibility and cost. This is an aid to the geo-scientists about commonly employed geophysical techniques and provides information for evaluating their utility as geotechnical site characterization. The aim of this paper is to provide the guidance for use of appropriate geophysical techniques in geotechnical site characterization based on geophysical survey conducted at some project sites and the published literatures.

Keywords: Subsurface assessment; Geotechnical; Geophysical techniques; Case study