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## Experimental Procedure of Identifying Ground Type by Downhole Test: A Case Study

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**Abstract :** Evaluating the shear wave velocity  $(V_s)$  and primary wave velocity  $(V_p)$  is necessary to identify the ground type of the site. Identifying the soil type based on different codes can affect the dynamic analysis of geotechnical properties. This study aims to separate the underground layers at the project site based on the shear wave and primary wave velocity  $(S_p)$  in different depths and determine dynamic elastic modulus based on the shear wave velocity. Bandar Anzali is located in a tectonically very active area. Several active faults surround the study site. In this case, a field investigation of downhole testing is conducted as a geophysics method to identify the ground type.

**Keywords:** downhole, geophysics, shear wave velocity, case-study

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