

- 7.1 The geotechnical report and design for building and structure shall be done by a geotechnical engineer qualified and licensed to practice and approved by the relevant authority.
- 7.2 All designs submitted by a geotechnical contractor (shoring and foundation contractor) shall be approved by the consultant.
- 7.3 All soil reports submitted by the geotechnical laboratory shall be approved by the consultant; he also has to monitor and supervise the soil investigation work.
- 7.4 The geotechnical engineer shall use approved relevant technical programs/software with valid software license.

8. Geotechnical design:

A) Geotechnical Investigation

1. General instructions for testing:

- 1.1 Soil investigations, tests and preparation of reports shall be done according to the latest codes, standards, and approved regulations, taking in to consideration the requirements and regulations of the local authority represented by Emirates International Accreditation Center (EIAC).
- 1.2 Soil tests shall be made based on the necessity of the design and construction of the proposed project including all physical and chemical tests pertaining to the soil, rock sand ground water and the like.; the soil testing laboratories conducting the test shall guarantee providing the geotechnical report and furnish it with sufficient information including clear definition of the Geotechnical properties of the tested area and provide the following information in the soil investigation report for example but not limited to:
 - Values of the standard penetration test (SPT) which shall be obtained in **sections** 0.5m long for the initial depth 3m, followed by sections 1m long unless facing loose soil ($N < 10$), in such case a continuous PST shall be conducted
 - The preliminary undisturbed samples shall be placed in a brittle cementitious material and subjected to unconfirmed compressive strength test (UCS) on specimens; the diameter of the core shall not be less than 76mm throughout the length of the core.
 - The general topography of the site shall be mentioned in the drawings, and all the levels shall be marked in DMD (this shall be applied on the boreholes, ground water level and the like).