

15. GEOTECHNICAL INFORMATION

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15.1 General

- 15.1.1 The Contractor shall allow in his tender for working in varying ground condition and geotechnical parameters which could be reasonably foreseen by an experienced contractor who has carried out the necessary and thorough analysis of the available geotechnical information including historical data, information from any additional soil investigation he has considered necessary, and any publicly available information. The Contractor shall note his obligations under **Clauses 11 and 12** of the Conditions of Contract.
- 15.1.2 The Contractor shall be responsible for obtaining all necessary information on the nature of the Site and the sub-surface condition for the purposes of preparing his tender submission and the subsequent execution of the Contract. The Contractor may, if he deems necessary, conduct soil investigation or other tests at his own costs.
- 15.1.3 The contractor's attention is drawn to the availability of geotechnical information (i.e. borehole data), which were collected from the public sector projects, at the Integrated Land Information Service (INLIS) website to be used as a reference. The Contractor shall, at his own discretion, take necessary steps to verify the accuracy, adequacy or completeness of the borehole data obtained from INLIS prior to the utilization.
- 15.1.4 Factual Geotechnical Reports consisting of geotechnical information relating to this Contract are provided, forming part of the Contract. The Contractor shall notify the Engineer immediately of any circumstance, which indicates that in the Contractor's opinion, the ground conditions differ from those reported in or which could have been inferred from the ground investigation reports.
- 15.1.5 The Contractor shall ensure he has sufficient soil information to carry out his design for all the Works, otherwise, he shall propose additional soil investigation and soil tests accordingly at no time and cost implications to the Authority.

- 15.1.6 The Contractor shall transport all rock and/or soil samples from site investigation undertaken by the Authority's site investigation contractors and store in sheltered storage until Completion of the whole of the Works. The rock and/or soil samples shall be stored using new storage racks and trays such that the samples are readily available for inspection. The Contractor shall store all rock and/or soil samples from his site investigation at the same location. Upon Completion of the whole of the Works, the Contractor shall dispose of the rock and/or soil samples or transport to such location specified by the Engineer.
- 15.1.7 Where additional soil investigation is carried out by, or on behalf of, the Contractor, he shall first seek the acceptance of the Engineer before commencing any investigation works. A duplicate copy of the report shall be provided to the Engineer in both hard and soft copy within one (1) month from the completion date of the investigation works. The soft copy of the soil investigation report shall be in 'Association of Geotechnical and Geo-environment Specialist' (AGS) and in Excel or equivalent format. The PDF format shall be created by converting from the original digital format, such as doc, xls, dwg, dgn, etc., instead of by scanning printouts unless allowed by the Engineer.
- 15.1.8 The Contractor shall comply with the implementation of accreditation requirements for site investigation works under Regulation 31(2) of the Building Control Regulations. The Contractor shall take note that the implemented regulations require the Qualified Person (QP) to ensure that all site investigation works are carried out by an accredited inspection body approved by the Singapore Accreditation Council (SAC) under the Council's scheme for Accreditation of Inspection Bodies for Site Investigation.