REFERENCE CODES & STANDARDS FOR “EARTHWORKS & BACKFILLING WORKS”

Following are key codes & standards to remember for Civil Estimators to prepare the tender/bid proposal in correct manner.

Codes & Standards are published documents that establish specifications and procedures designed to ensure the reliability of the materials, products, methods, and/or services use in construction industry.

These Codes & Standards also make it easier to understand and compare competing products.

CODES AND STANDARDS

The following Codes and Standards apply to this document. Where there are conflicts between the requirements of different Specifications, Codes and Standards the most stringent criteria shall apply.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)


ASTM D422 : Standard Method for Particle Size Analysis of Soils

ASTM D1140 : Standard Test Method for Amount of Material in Soils Finer Than the No. 200 (75-Micrometer) Sieve

ASTM D1556 : Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method

ASTM D1557 : Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lb/ft3 (2,700 kN/m3))

ASTM D2167 : Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method

ASTM D2216 : Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass

ASTM D2217 : Standard Practice for Wet Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants

ASTM D4253 : Standard Test Method for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table

ASTM D4254 : Standard Test Method for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density

ASTM D1883 : Standard Test Method for California Bearing Ratio (CBR) of Laboratory Compacted Soils

ASTM D2487 : Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)


ASTM D5195 : Standard Test Method for Density of Soil and Rock In-Place at Depths Below the Surface by Nuclear Methods

ASTM D6938 : Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)

BRITISH STANDARD INSTITUTE (BSI)

BS 1377 Part 9: Methods of Test for Soil for Civil Engineering Purposes (In-situ Tests)

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

ISO 9001 : Quality Management Systems - Requirements