BCDC 13 (2045) DTZS

DRAFT TANZANIA STANDARD

Soils for civil engineering purposes-Part 1: General requirements and sample preparation

Draft for Public Comments

TANZANIA BUREAU OF STANDARDS

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The Building and Construction Divisional Standards Committee (BCDC), under whose supervision this Tanzania Standard was prepared, consists of representatives from the following organizations:

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Tanzania Commission for Science and Technology (COSTECH)
Ministry of Works and Transport (MoWT)
National Housing Corporation (NHC)
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The organizations marked with an asterisk (*) in the above list, together with the following were directly represented on the Technical Committee entrusted with the preparation of this Tanzania Standard:

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ENGG CONSULT Consulting Engineers
Zanzibar Bureau of Standards (ZBS)

Tanzania Bureau of Standards
P O Box 9524
Dar es Salaam
Tel: +255 (22) 2450206/2450949/2450298
Fax: +255 22 2450298
E-mail: info@tbs.go.tz
Website: www.tbs.go.tz

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0 National Foreword

The Tanzania Bureau of Standards is the statutory national standards body for Tanzania, established under standards Act No. 3 of 1975, amended by Act No. 2 of 2009.

This draft Tanzania Standard was prepared by BCDC 13 Foundation and Soils for civil engineering purposes technical committee under the supervision of the Building and Construction Divisional Committee (BCDC).

In preparation for this draft Tanzania Standard reference was made to BS 1377-1:2016.

It has been assumed in the drafting of this draft Tanzania Standard that the execution of its provisions is entrusted to appropriately qualified and experienced people.

A Tanzania Standard does not purport to include all the necessary provisions of a contract. Users of Tanzania Standards are responsible for their correct application.

Compliance with a Tanzania Standard does not of itself confer immunity from legal obligations.

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1 Scope

This draft Tanzania Standard specifies general requirements for the testing of soils for civil engineering purposes and describes methods for the calibration of equipment and the preparation of test samples.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 410-1, Test sieves – Technical requirements and testing – Part 1: Test sieves of metal wire cloth

BS 593, Specification for laboratory thermometers

BS 1377-2:1990, Methods of test for soils for civil engineering purposes – Part 2: Classification tests

BS 1377-3, Methods of test for soils for civil engineering purposes – Part 3: Chemical and electro-chemical tests

BCDC 13 (2046), Methods of test for Soils for civil engineering purposes- Part 2: Classification tests and determination of geotechnical properties

BS 1377-5, Methods of test for soils for civil engineering purposes – Part 5: Compressibility, permeability and durability tests

BS 1377-6, Methods of test for soils for civil engineering purposes – Part 6: Consolidation and permeability tests in hydraulic cells and with pore pressure measurement

BS 1377-7, Methods of test for soils for civil engineering purposes – Part 7: Shear strength tests (total stress)

BS 1377-8, Methods of test for soils for civil engineering purposes – Part 8: Shear strength tests (effective stress)

BS 1377-9, Methods of test for soils for civil engineering purposes – Part 9: In-situ tests

BS 4311, Gauge blocks manufactured to imperial specification

BS 5930, Code of practice for ground investigations

BS EN 837-1, Pressure gauges – Part 1: Bourdon tube pressure gauges – Dimensions, metrology, requirements and testing

BS EN 61010-2-020, Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-020: Particular requirements for laboratory centrifuges

BS EN ISO 4787, Laboratory glassware – Volumetric instruments – Methods for testing of capacity and for use

BS EN ISO 7500-1, Metallic materials – Calibration and verification of static uniaxial testing machines – Part 1: Tension/compression testing machines – Calibration and verification of the force-measuring system

TZS 1454/BS EN ISO 10012, Measurement management systems – Requirements for measurement processes and measuring equipment

TZS 2280/ISO/IEC 17025, General requirements for the competence of testing and calibration laboratories

BCDC 13 (1864) /BS EN ISO 17892-1, Geotechnical investigation and testing – Laboratory testing of soil – Part 1: Determination of water content

BS ISO 3310 (all parts), Test sieves – Technical requirements and testing

TZS 1293 (Part 2)/ISO 3310-2:1999 – Test sieves- technical requirements and testing – Part 2: Test sieves of perforated metal plate

3 Terminology, definitions, symbols and units

3.1 Terminology

For the purposes of this draft Tanzania Standard the following terminology applies.

3.1.1 Soil.

An assemblage of discrete particles in the form of a deposit, usually of mineral composition but

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