

(PREVIEW)

IS 13578 : 2008

Indian Standard

SUBSURFACE EXPLORATION FOR BARRAGES AND WEIRS – CODE OF PRACTICE

(*First Revision*)

1 SCOPE

1.1 This standard gives guidance on the type, extent and details of subsurface exploration needed in connection with barrages and weirs .

1.2 The term subsurface exploration, as used herein, covers all types of exploration connected with determination of the nature and extent of soil and/or rock below the natural ground surface at or near barrage/weir sites.

2 REFERENCES

The standards listed in Annex A contain provisions which through reference in this text constitute provisions of this standard. At the time of publication, the editions indicated were valid . All standards are subject to revision and parties to agreements based on these standards are encouraged to investigate the possibility of applying the most recent editions of the standards indicated in Annex A.

ANNEX A

(*Clause 2.1*)

LIST OF REFERRED INDIAN STANDARDS

<i>IS No.</i>	<i>Title</i>
1498 : 1970	Classification and identification of soils for general engineering purposes (<i>first revision</i>)
1888 : 1982	Method for load test on soils (<i>second revision</i>)
1892 : 1979	Code of practice for subsurface investigations for foundations (<i>first revision</i>)
2131 : 1981	Methods of standard penetration test for soils (<i>first revision</i>)
2720 (Part 2) : 1973	Methods of test for soils : Determination of water content (<i>second revision</i>)
(Part 4) : 1985	Grain size analysis (<i>second revision</i>)
(Part 5) : 1985	Determination of liquid and plastic limit (<i>second revision</i>)

(Part 10) : 1991	Determination of unconfined compressive strength (<i>first revision</i>)
(Part 11) : 1993	Determination of the shear strength parameters of a specimen tested in unconsolidated undrained triaxial compression without the measurement of pore pressure
(Part 12) : 1981	Determination of the shear strength parameters of soil from consolidated, undrained triaxial compression test with measurement of pore water pressure (<i>first revision</i>)
(Part 13) : 1986	Direct shear test (<i>second revision</i>)
(Part 14) : 1983	Determination of density index (relative density) of cohesion less soils (<i>first revision</i>)
(Part 15) : 1965	Determination of consolidation properties (<i>first revision</i>)
(Part 17) : 1986	Laboratory determination of permeability (<i>first revision</i>)
(Part 21) : 1977	Determination of total soluble solids (<i>first revision</i>)
(Part 22) : 1972	Determination of organic matter (<i>first revision</i>)
(Part 23) : 1976	Determination of calcium carbonate (<i>first revision</i>)
(Part 26) : 1987	Determination of <i>pH</i> value (<i>second revision</i>)
(Part 27) : 1977	Determination of soluble sulphates (<i>first revision</i>)
(Part 28) : 1974	Determination of dry density of soils in place by the sand replacement method (<i>first revision</i>)
(Part 29) : 1975	Determination of dry density of soils in place, by the core-cutter method (<i>first revision</i>)
(Part 33) : 1971	Determination of density of soil in place by the ring and water replacement method
(Part 34) : 1972	Determination of density of soil in place by rubber balloon method
(Part 38) : 1976	Compaction control test (Hilf method)
(Part 40) : 1977	Determination of free swell index of soils
(Part 41) : 1977	Determination of swelling pressure of soils
2950 (Part 1) : 1981	Code of practice for design and construction of raft foundations : Part I Design (<i>second revision</i>)
3025 (Part 11) : 1983	Methods of sampling and test (physical and chemical) for water and waste water: Part II <i>pH</i> value (<i>first revision</i>)
4078 : 1980	Code of practice for indexing and storage of drill cores (<i>first revision</i>)
4434 : 1978	Code of practice for <i>in-situ</i> vane shear test for soils (<i>first revision</i>)
4453 : 1980	Code of practice for exploration by pits, trenches, drifts and shafts (<i>first revision</i>)
4464 : 1985	Code of practice for presentation of drilling information and core description in foundation investigation (<i>first revision</i>)
4968 (Part 3) : 1976	Method for subsurface sounding for soils: Part 3 Static cone penetration test (<i>first revision</i>)
5529	Code of practice <i>in-situ</i> permeability test :
(Part I) : 1985	Test in overburden (<i>first revision</i>)
(Part 2) : 2006	Test in rock (<i>second revision</i>)
6926 : 1996	Code of practice for diamond core drilling for site investigation for river valley projects
7292 : 1974	Code of practice for <i>in-situ</i> determination of rock properties by flat jack
7317 : 1993	Code of practice for uniaxial jacking test for deformation modulus of rock
7422	Symbols and abbreviations for use in geological maps sections and subsurface exploratory logs:
(Part I) : 1974	Abbreviations
(Part 2) : 1974	Igneous rocks
(Part 3) : 1974	Sedimentary rocks
(Part 4) : 1985	Metamorphic rocks
(Part 5) : 1992	Line contacts and structural features
7746 : 1991	Code of practice for <i>in-situ</i> shear test on rock
8764 : 1998	Method of determination of point load strength index of rocks

9143 : 1979	Method of determination of unconfined compressive strength of rock materials
9214 : 1979	Method for determination of modulus of sub-grade reaction (k-value) of soils in the field
9221: 1979	Method for the determination of modulus of elasticity and Poisson's ratio of rock materials in uniaxial compression
12634 : 1989	Rock joints-direct shear strength-Laboratory method of determination
4453 : 1980	Exploration by pits, trenches, drifts and shafts - Code of practice(<i>first revision</i>)
15686:2006	Recommendations for preparation of geological and geotechnical maps for river valley projects