

Soil Testing - Physical Parameters	Standard
Standard Proctor Compaction Test (2.5kg) hammer	ASTM D 698-78, 1990
Modified Proctor Compaction Test (4.5kg) hammer	ASTM D 698-78, 1990
Consistency Limits-Liquid Limit, Plastic Limit (by using Casagrande apparatus)	ASTM D 4318
Specific Gravity of soil	ASTM D 854
Sieve Analysis (Washed)	ASTM D421 & D422
Field Density Test (Sand Cone Method)	ASTM D 1556-82
Determination of moisture content –Oven dry method	ASTM D 2216
Laboratory Permeability Test (With Confining Pressure)	ASTM D 2434-68
Laboratory Permeability Test (W/out Confining Pressure)	ASTM D 2434-68
Plate Bearing Test (Without counter weight)	ASTM D 1194-72
Dynamic Cone Penetration (1st1m)	ASTM D6951/D6951M
Bulk Density	BS 1377 Part 2 : 1990
Shrinkage Limit Test	BS 1377-2 : 1990
Crumb Test	ASTM D 6572 -06
Field CBR Test	ASTM D 4429-04
Consolidation Test	BS 1377:Part 5:1990
Free Swell Index (Consolidation Test)	BS 1377:Part 2:1990
UU Tri axial – 70mm (Stage loading)	BS 1377:Part 7 : 1990
UU Tri axial – 100mm (Stage loading)	BS 1377:Part 7 : 1990
UU Tri axial – 50mm (3 separate samples)	BS 1377:Part 7 : 1990
CU Tri axial – 70mm (Stage loading)	BS 1377:Part 7 : 1990
CU Tri axial – 100mm (Stage loading)	BS 1377:Part 7 : 1990
CU Tri axial – 70mm (3 separate samples)	BS 1377:Part 7 : 1990
CU Tri axial – 100mm (3 separate samples)	BS 1377:Part 7 : 1990
Unconfined Compressive Strength-Unsoaked	ASTM D 7012-07
Direct Shear Test	BS 1377: Part 7 :1990
Swelling Test (% Swelling)	BS 1377:Part 4 : 1990
Pinhole Test	ASTM D 4647 - 06
Laboratory CBR Test (Soaked)	ASTM D 1883-87
Laboratory CBR Test (Unsoaked)	ASTM D 1883-87
Laboratory CBR Test	AASHTO T 193 - 1993/ ASTM 1883-2007

Hydrometer Test	ASTM D421 & D422
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Soil Testing - Chemical Parameters	Standard
pH	AASHTO T 289, BS 1377:Part-3
Chloride (Water-Soluble)	AASHTO T 291, BS 1377:Part-3
Chloride (Acid-Soluble)	BS 1377:Part-3
Sulfate (Water-Soluble)	AASHTO T 290, BS 1377:Part-3
Sulfate (total Sulphate or Acid-Soluble)	BS 1377:Part-3
Carbonate Content (as CO ₂)	BS 1377-3:1990
Organic matter content (Walkley & Black's method)	BS 1377-3 :1990
Mass loss on Ignition	BS 1377-3 :1990
Lime content of Uncured Soil-Lime Mixture	ASTM D 3155
Specific electrical conductivity *	Australian Standard