

Soil Aggregate Base Course, Sub Base Course and Subgrade material

Moisture content
Atterberg Limit Test (PL,LL & PI)
Linear shrinkage Limit
Hydrometer (Sedimentation) analysis
Material finer than 75µm sieve (Determination of clay and silt)
MDD/OMC (Proctor Test) – using 2.6kg rammer
MDD/OMC (Proctor) – using 4.9kg rammer
MDD/OMC rel. (Proctor Test) – using Vibrating rammer
Soaked California Bearing Ratio (CBR) single point
Soaked California Bearing Ratio (CBR) three point
Un-soaked California Bearing Ratio (CBR) single point
Un-soaked California Bearing Ratio (CBR) three point
Specific Gravity
Total Sulphate (Acid soluble Sulphate content)
Total Chloride (Acid soluble chloride content)
Water soluble Sulphate Content
Water soluble Chloride Content
pH value
Organic Matter Content
Water soluble salts
Gypsum Content (chemical method)
Gypsum Content (Visual In-House Method)
Carbonate content
Electric conductivity/ saturation point
Water permeability Test – Constant Head method
Water permeability Test - Falling Head
Free swell index using kerosene method
Direct Shear Test (60x60mm specimen) quick shear
Direct Shear Test (60x60mm specimen) consolidated shear
Unconfined Compressive Strength of Cohesive soil
Soil Classification
Maximum index density using vibrating table
Minimum Index Density
Sand equivalent value
Swell Pressure & percentage
One dimensional consolidation (Oedometer Test)

Grading (Sieve analysis)
Los Angeles Abrasion
Magnesium Sulphate Soundness of coarse fraction
Magnesium Sulphate Soundness of fine fraction
Sand Equivalent Value
Clay lumps & Friable Particles
Thin & Elongated Particles
Chloride Content (Wet chemical method)
Sulphate Content
Percentage of Crushed and Broken surface
Organic Matter Content
Gypsum Content