

Slake Durability Test Apparatus

Make: LabTek

Model: SL-RK-010

Origin: India

Standards: ASTM D 4644

Specification: This test method has been developed to assess the deterioration of rocks over a period of time when subjected to water immersion. Slake durability is a simulated weathering test to determine abrasion resistance during wetting and drying cycles of shale and similar soft rocks as used in embankments and other construction-related applications. Samples are alternately tumbled in mesh drums through a water medium and oven-dried for two cycles. The percent loss of mass is referred to as the slake durability index. The slake durability apparatus consists of a motorized drive unit which is mounted on a baseplate and which can rotate two or four drums at a speed of 20 r.p.m. The tank assemblies are filled with water to a level 20mm below the drum axis. The test drums are manufactured from 2.00 mm mesh, 140 mm dia. X 100 mm long.



Rock Bolt Pull Out Test Apparatus

Make: LabTek

Model: SL-RK-011

Origin: India

Standards: IS 11309, ASTM D 4435

Specification: The objective of the test method is to measure the working and ultimate capacities of rock bolt anchors. The system comprises of a central hole jack, hand pump with a load gauge, directional control valve (only for central hole jacks above the capacity of 500 kn), flexible hose pipe 5 mts, truss high tensile bolts with coupling. In general the pull out force is indicated on the load gauge, however a load cell with digital indicator can be used to measure the pull out load. Arrangement is provided for fixing the dial gauge for estimating deflection against the load.



Load frame for universal compression test of rocks 12 speed 200 kn

Make: LabTek

Model: SL-RK-012

Origin: India

Standards: ASTM 2938

Specification: This equipment is used for determining unconfined compressive strength of intact rock core specimens. The rock sample is cut to length and the ends are machined flat. The specimen is placed in a loading frame and if required heated to the desired test temperature. Axial load is continuously increased on the specimen until peak load and failure are obtained.

The equipment consist of the following replaceable parts :

Load frame, 200 kn capacity 12 speed from 0.0064 to 1.25 mm/min

Proving ring, 200 kn with calibration certificate

Dial gauge 25mm travel, 0.01mm least count.

Platen set as per ASTM 2938 requirements

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Horizontal clearance 300 mm

Vertical clearance 750 mm

Maximum platen diameter 198 mm

Maximum platen travel 100 mm

Specimen diameter 38 mm to 100 mm

Can test AX, BX, NX rock specimen upto 100 mm

