

Quick Diagnostic Test Concrete Strength

NON-DESTRUCTIVE TESTING

Noble Geo-Structs is a leading Geotechnical Consulting and contracting firm. The range of our services, quality engineering and competitive prices have made us one of the fastest growing companies of its kind in India.

Located in Mumbai, we offer non-destructive testing, core cutting and testing to the various industrial and commercial sectors.



Rebound Hammer



USPV



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SCHMIDT HAMMER TEST

The Schmidt rebound hammer is principally a surface hardness tester. Used for measuring the existing compressive strength of the concrete. The hammer can be used in the horizontal, vertically overhead or vertically downward positions as well as at any intermediate angle, provided the hammer is perpendicular to the surface under test.

ULTRA SONIC PULSE VELOCITY TEST

A pulse of longitudinal vibrations is produced by an electro-acoustical transducer, which is held in contact with one surface of the concrete under test. Measurement of the velocity of ultrasonic pulses of longitudinal vibrations passing through concrete may be used for the following applications:

- Determination of the uniformity of concrete in and between members
- Measurement of changes occurring with time in the properties of concrete
- Correlation of pulse velocity and strength as a measure of concrete quality.
- Determination of the modulus of elasticity and dynamic Poisson's ratio of the concrete.

CONCRETE CORE

The concrete cores of diameter 100mm are extracted. Representative cores are extracted from the existing structures for assessing strength and permeability

VISUAL INSPECTION

The Surface conditions are examined for location and depth of cracks in the structural members.

This is to establish the extent of corrosion to the reinforcement bars.

SLAB LOAD TEST

The deflection of the slab is measured using dial gauges to inspect the safety of the slab for the stipulated loads.