

OUR SERVICES

Low Strain Pile Integrity (ASTM D5882-07)

High-Strain Dynamic Test (ASTM D4945-00)

Cross-hole Sonic Logging (ASTM D6760-08)

CAPWAP Analysis

Pile Instrumentation using Vibrating Wire Strain Gauges

Static Load Test for Piles (Compression, Tension & Lateral)



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Consulting firm for Non-Destructive Testing Of Pile Foundation Concrete Structures



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Advanced Techniques for Pile Foundation Testing



Dynamic Load Test in progress

High-Strain Dynamic Test

The test is performed using Pile Driving Analyzer (PDA) together with strain gauges and accelerometers. PDA is used to verify the mobilized capacity of all types of drilled and driven piles. Testing is conducted in a quick and non-destructive manner in accordance to ASTM D4945.

'Quick, cost saving and reliable. Save time and gain Quality Assurance'

CAPWAP Analysis

CAse Pile Wave Analysis Program (CAPWAP) makes use of field measurements obtained by PDA and wave-equation type analytical method to predict pile performance such as static load capacity, pile-soil load transfer characteristics, soil resistance distribution, soil damping & quake values. CAPWAP is carried out on the PDA data after the on-site test is complete.

Cross-Hole Sonic Logging

Cross-Hole Analyzer (CHA) is used to determine the quality and consistency of cast-in-situ concrete piles. The entire pile shaft length is scanned at regular intervals by transmitter and receiver raised together in pre-installed sonic tubes in the pile concrete. The pile integrity is interpreted by the First Arrival Time (FAT) and the relative energy signal of the pulses between the probes recorded on site. The test is done in accordance to ASTM D6760.

Low-Strain Pile Integrity

Pile Integrity Tester (PIT) is used for the lowstrain integrity testing of piles and conforms to ASTM D5882. It detects potential defects such as major necking, soil inclusions or voids, in some situations it can determine unknown lengths of pile.

'PIT makes it economically feasible to verify the integrity of every pile on your site'



Pile Integrity Test in Progress

Pile Instrumentation

The main objective of Pile Instrumentation is to establish the 'Load Distribution Characteristics of Soil' along the pile shaft. This is done to get the Load Shedding / Distribution Curves along the pile length. The vibrating wire strain gauges are installed at various levels along the pile length as per the soil profile.



The Owner – Mahesh Hingorani has an extensive working experience both in India and Middle East in the field of Non-Destructive Testing for Pile Foundation & Concrete Structures. He holds Master's Degree in Geotechnical Engineering. He has worked as a testing expert for all major contracting companies and government bodies which includes NHAI, Indian Railways, Airport Authority in India and Dubai Metro, Roads & Transport Authority, PDO, TRANSCO, Saudi Electricity, Saudi Royal Naval Force in Middle East.