

*“High quality testing facilities for standard tests and R&D purposes”*



# ROCK MECHANICS LABORATORY SERVICES

Department of Earth Resources Engineering has a Rock Mechanics Laboratory with equipment for rock and aggregate testing

## CONTACT US

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*Precise Measurement*  
*Prompt Turnaround Times*  
*High Quality Reporting*





## SERVICES OVERVIEW

The design and analyses of any rock engineering project for mining or civil applications require careful mechanical characterization of the the host rock. For this purpose, rock cores are drilled or crushed and rock samples are prepared for laboratory testing. These samples then go through various standard rock mechanics testing procedures to determine several physical and mechanical properties. These properties are typically used for design purposes.

To better help mining and civil engineering companies as well as geotechnical consultants with their rock testing needs, we offer standard intact and aggregate rock testing services using our laboratory testing facility located in the Department of Earth Resources Engineering, University of Moratuwa. We offer the following types of tests:

### **PHYSICAL PROPERTIES OF ROCKS/AGGREGATES**

Water Content

Density

Specific Gravity

Absorption

### **STRENGTH TEST ON ROCK**

Unconfined Uniaxial Compressive Strength (UCS)

Triaxial Confined Compressive Strength

Point Load Index

Brazilian Disc Tensile Strength

### **AGGREGATE TEST**

Los Angeles Abrasion Value (LA AV)

Aggregate Impact Value (AIV)

# QUALITY ASSURANCE

**Specimen preparation and testing are performed in compliance with the relevant:**

**American Society for Testing and Materials (ASTM) Standards; and/or**

**International Society for Rock Mechanics (ISRM) Suggested Methods**

**The clients receive:**

**A professional and detailed testing report**

