

Laboratory Infrastructure– Division of Mining

- Cutting and mechanical characterization of marble and natural stones
- Rock mechanics designs (underground mining, tunnel design, slope stability analysis)
- Ventilation
- Determination of physical and mechanical properties of rocks (density, porosity, hardness, shear and bending strength, abrasion resistance, uniaxial and triaxial compressive strength, tensile strength, P-wave velocity measurement, freeze-thaw test)
- Reserve calculation
- Dust measurement
- Core sampling
- Noise level detection

Laboratory Infrastructure– Division of Mineral Processing

- Comminution and classification (crushing, grinding, size analysis with dry/wet sieving, size analysis with sedimentation, solid-liquid separation)
- Ore characterization
- Physical enrichment (dry/wet magnetic separation, shaking table, jig, heavy media enrichment, flotation)
- Chemical leaching, bleaching, and recovery from solution
- Thermal processes - pretreatment and enrichment (roasting, calcination, sintering)