

Mission

Division of Mineral Resources Analysis and Identification has missions to give services;

- ✓ Providing analytical testing services for geologic materials.
- ✓ Studying, Researching, developing new methodologies for mineral resources analysis.
- ✓ Working together or supporting other organizations that are associated with Division of Mineral Resources Analysis and Identification missions or works assigned by authority

Organization

Division of Mineral Resources Analysis and Identification

Minerals and Rocks Analysis Section

Gem and Geological Material Analysis Section

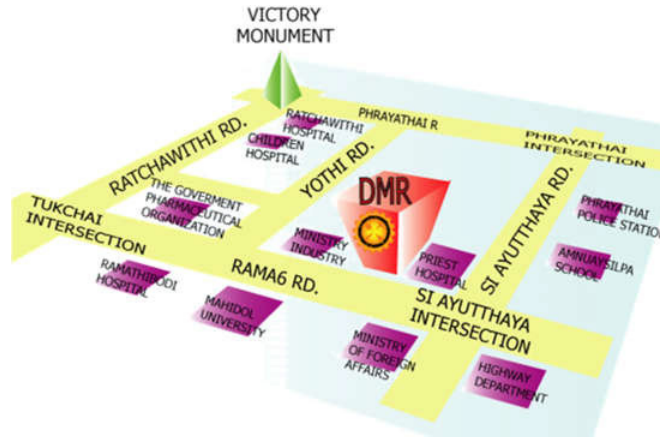
Soil and Stream Sediments Analysis Section

Mineral Resources Research and Development Center

Planning and General Administration Section

Contact us

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For more information
www.dmr.go.th



Geological Materials Analysis Services



Rocks and Minerals Chemical Analysis Services



Soil and Sediments Chemical Analysis Services



Division of Mineral Resources Analysis and Identification
Department of Mineral Resources
Ministry of Natural Resources and Environment
Thailand

Mineral Resources Analysis and Identification Services

Geological Materials Analysis Services

Providing analysis and identification services for gem quality focusing on gem and gemstone authentication and gemstone type identification by using fundamental method of physical analysis and advance method of physical analysis.

Analytical item	Fee* (Baht)
Analysis and Identification of geological material	
Examining the jewelry to prove the actual or quality	400
Determining the specific gravity of mineral and rock	200
Examining the geological sample and geological material in physics (doesn't use the material to specify types and elements)	100
Examining mineral and rock by making thin section	
-Petrography	500
-Examining texture to determine major elements and minor elements	500
Analyzing and examining the crystalline powder or pulpy samples to specify minerals, compounds or elements	500
Analyzing the sample with the following scientific instruments	
X-Ray Diffractometer to identify the type of mineral or compound	1000
Energy Dispersive X-Ray Fluorescence Spectrometer to identify the type of component elements	500
Fourier Transform Infra-red Spectrometer to identify the type of minerals and organic substances	500
Laser Raman Spectrometer to identify the type of minerals	500
Determining brightness of pulpy samples	200
Remark* Analytical fee per sample	

Rocks and Minerals Chemical Analysis Services

Analytical item	Fee* (Baht)
Quantitative analysis of mineral sample	
Sulfur (S)	400
Moisture of mineral or ore (H ₂ O)	200
Calcium (Ca)	500
Calcium oxide (CaO)	500
Calcium carbonate (CaCO ₃) in Fluorite	400
Calcium fluorite (CaF ₂) in Fluorite	500
Calcium tungsten (CaWO ₄)	700
Calcium oxide (CaO) in Gypsum	500
Chromic oxide (Cr ₂ O ₃)	500
Sulfur trioxide (SO ₃) in Gypsum	400
Silica (SiO ₂)	500
Cerium dioxide (CeO ₂)	500
Zirconium dioxide (ZrO ₂)	500
Tin (Sn)	500
Lead (Pb)	500
Gold (Au)	500
Copper (Cu)	400
Thorium dioxide (ThO ₂)	600
Tungsten trioxide (WO ₃)	500
Tantalum pentoxide (Ta ₂ O ₅)	700
Titanium dioxide (TiO ₂)	500
Niobium pentoxide (Nb ₂ O ₅)	600
Barium (Ba)	500
Remark* Analytical fee per sample	

Providing analytical testing services for both government organizations and private sectors. For chemical analysis, the geologic materials will be analyzed for major elements and trace elements.

Analytical item	Fee* (Baht)
Quantitative analysis of mineral sample	
Barium sulfate (BaSO ₄)	600
Antimony (Sb)	500
Phosphorus (P)	500
Phosphorus pentoxide (P ₂ O ₅)	500
Magnesium (Mg)	400
Manganese (Mn)	500
Manganese dioxide (MnO ₂)	400
Triuranium octoxide (U ₃ O ₈)	600
Rare earth oxide (RE ₂ O ₃)	600
Rare earth oxide with Thorium dioxide (RE ₂ O ₃ +ThO ₂)	600
Zinc (Zn)	500
Arsenic (As)	500
Iron (Fe)	400
Alumina (Al ₂ O ₃) in Kyanite	500
Yttrium oxide (Y ₂ O ₃)	500
Water (H ₂ O ⁺) in Gypsum	400

Remark* Analytical fee per sample



Analytical item	Fee* (Baht)
Quantitative analysis of rock, soil and sand	
Moisture (H ₂ O)	200
Calcium oxide (CaO)	500
Sulfur trioxide (SO ₃)	400
Silica (SiO ₂)	500
Sodium oxide (Na ₂ O)	400
Titanium dioxide (TiO ₂)	400
Potassium oxide (K ₂ O)	400
Phosphorous pentoxide (P ₂ O ₅)	400
Ferrous oxide (FeO)	400
Ferric oxide (Fe ₂ O ₃)	400
Magnesium oxide (MgO)	400
Manganese oxide (MnO)	400
Loss on Ignition (LOI)	300
Alumina (Al ₂ O ₃)	500
Trace element analysis of mineral, rock, soil and sand	
Cadmium (Cd)	500
Cobalt (Co)	400
Chromium (Cr)	500
Silver (Ag)	500
Nickel (Ni)	400
Bismuth (Bi)	400
Beryllium (Be)	400
Boron (B)	400
Molybdenum (Mo)	500
Rubidium (Rb)	400
Lithium (Li)	400
Vanadium (V)	500
Strontium (Sr)	400
Zinc (Zn)	400
Aluminum (Al)	500
Remark* Analytical fee per sample	