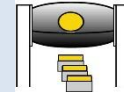
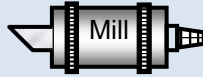
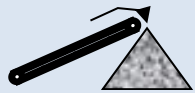




PT. GEOSERVICES - GEOMETALLURGICAL LABORATORY



CAPABILITY STATEMENT – May 2019

Location

GeoAssay Laboratory
 JL. Industry Selatan Blok MM1
 Jababeka 2, Cikarang Bekasi 17530,
 Indonesia
 Ph: (021)8937833-34
 Fax: (021)8937835
 Web: www.geoservices.co.id

Contact Email

metdiv@geoservices.co.id

About us

PT. GEOSERVICES is a National Company founded in 1971 by Dr. Ong HL and Ir. Durban LA Msc. The Company has gained a solid base of expertise covering all aspects of the exploration and development of Indonesia's oil, gas, coal, mineral, and geothermal industries. Originally providing field sampling and chemical analysis for the mineral industry, PT. Geoservices has diversified its services and broadened its clientele. Located in Cikarang are the Mineral Division business streams covering:

- Mineral/exploration analysis,
- Metallurgical testwork
- Oil Analysis testwork
- Geotechnical testwork

Our current range of metallurgical service capabilities include but are not limited to the following:

COMMINUTION

JK Drop Test (DWT)
 Sag Mill Comminution Testing (SMC)
 Bond Crushing Index (CWi)
 Bond Ball Mill Index (BBMi)
 JK Modified Bond Ball Mill Index (JKBBM)
 Bond Rod Mill Index (BRMi)
 Abrasion index (Ai)
 Point Load Test
 Unconfined Compressive Strength (UCS)
 Grindability - Ball and Rod Mill
 IsaMill - Ultra Fine Grinding

HYDROMETALLURGY

Bottle roll and agitated leaching
 Agglomeration and percolation testing
 Column leaching, Cyanide detoxification
 Flotation – Open and Locked Cycle
 Activated Carbon Testing.

MINERAL BENEFICATION

Flotation – D12 Denver
 Wilfley Shaking Table, Plietz Jig
 Knelson / Falcon Concentrator,
 Spiral Pilot Plant

ALTERNATE PROCESSING

Sulphide Roasting
 Direct Reduction – Coal & Charcoal
 Autoclave - Pressure Oxidation (POX)

HEAVY MINERAL SAND

Davis Tube Recovery
 Wet Drum Roll Magnetic Separation
 (1400G / 3500G/ 9500 /Variable Gauss)
 Dry Magnetic Separation
 Satmangan - Magnetite Determination
 TBE - Heavy Liquid Separation

SLURRY CHARACTERIZATION

Flocculation Testwork
 Settling Testwork
 Viscosity Testwork

ORE CHARACTERIZATION

X-ray Diffraction - Bulk Mineralogy
 XRF Major Analytes, Fire Assay, AAS, ICP, MS,
 LECO – Sulphur & Sulphide Sulphur,
 Acid Mine Drainage - AMD
 Microscope mineralogy.
 Diagnostic leaching

METAL ANALYSIS

Ark Spark Optical Emission for analysis of
 Al,Cu,Co,Fe,Mg,Ni,Pb,Sn,Ti,Zn pure or alloy
 metals
 Digest plus ICP/AAS metal analysis
 XRF Metal Analysis for steel

GEOTECHNICAL TEST

Soil & Rock Physical / Mechanical Properties

