



STS

Your Reliable Quality Minerals

Silathai Sa-Nguan (2540) Co., Ltd.

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Operating under Green Circular Business, STS is a legally compliant, high-quality producer and distributor of minerals. With standardized production technology and over 30 years of experience, we supply products for a variety of applications, including Construction, Ceramics, Fiberglass, and Quicklime.



We provide comprehensive Mining Management Solutions that cover every stage **from Exploration and Reserve assessment to production and transportation** designed to streamline processes, reduce costs and lead times, and enhance operational efficiency.



PRODUCT

BALL CLAY (Shredded & Refined)



Sourced from the largest Ball Clay deposit in Mae Tha District, Lampang Province, the clay undergoes crushing and impurity removal under standardized production and quality control procedures to ensure it meets customer-specific requirements.

Chemical Composition

Al₂O₃ : 17.0 – 26.0%
Fe₂O₃ : 1.5 -3.5%
LOI : 9.0-11.0%

Ceramic Properties

White body, Castable,
High plasticity, Low residue

Benefits

- Improves the post-forming strength of the tile body and yields a grayish-white fired color
- Used in slip casting for the production of ceramic sanitary ware and tile bodies
- Enhances clay plasticity to improve formability during shaping
- Increases product strength, making finished goods less brittle and more durable

Suitable Industries



Ceramic Tiles



Ceramic Sanitary Ware



Ceramic Tableware

Production Capacity: 0.30 MT/Y

Mine Life: > 10 years

GYPSUM (Gypsum)



Gypsum, sourced from high-quality deposits, is a neutral calcium sulfate compound with good water solubility. It is widely used in construction and agriculture industries and is categorized into two grades: Normal-grade Gypsum and High-grade Gypsum.

Normal-grade Gypsum

Chemical Formula CaSO₄ . 2H₂O
Purity > 90%
Moisture < 3%
Size 0-20 mm, 0- 4 inches

High-grade Gypsum

Chemical Formula CaSO₄ . 2H₂O
Purity >95%
Whiteness >90%
Moisture < 3%
Size 0-20 mm, 0-4 inches, 4-6 inches

Benefits (Normal-grade Gypsum)

- Used as a raw material in cement production to slow down the setting time
- Used to treat soil salinity because of its high solubility and rapid uptake by plants

Benefits (High-grade Gypsum)

- Used in gypsum board manufacturing
- Used as a raw material in plaster production and for medical applications, such as dental molds

Suitable Industries (Normal-grade)



Cement



Soil Conditioner

Suitable Industries (High-grade)



Gypsum Board



Plaster

Production Capacity : 0.40 MT/Y

Mine Life : 40 years

PYROPHYLLITE (Pyrophyllite)



Pyrophyllite, sourced from the largest mining concession in Thailand, is a hydrous aluminum silicate mineral with versatile applications in construction materials, ceramics, refractory products, and fiberglass.

Chemical Composition

1. Cement grade Al₂O₃ : >12%, Fe₂O₃ : 0.4-0.8%
2. Ceramic grade Al₂O₃ : >13%, Fe₂O₃ : <0.4%
3. Fiberglass grade Al₂O₃ : >15%, Fe₂O₃ : <0.4%
Size 0- 20 mm. , 0-50 mm
Moisture < 3.0%

Benefits

- Used as a raw material in white cement production
- Incorporated into ceramic clay bodies to maintain the desired shape and enhance refractory properties
- Used as an ingredient in refractory products and kiln lining to improve viscosity and fire resistance
- Used in fiberglass production
- Used as a filler in rubber, paper, plastics, and paint industries

Suitable Industries



White Cement



Ceramic Tiles



Fiberglass

Production Capacity : 0.20 MT/Y

Mine Life : 45 years

HIGH GRADE LIMESTONE (High Grade Limestone)



High-grade chemical limestone, sourced from premium deposits, is a calcium carbonate compound with a variety of applications, including as a raw material for quicklime production and in the animal feed, rubber, glass, and plastics industries.

Chemical Composition

CaCO₃ > 97%
CaO > 54%
MgO < 0.8%
Fe₂O₃ < 0.1%
SiO₂ < 0.5%
Al₂O₃ < 0.5%
Moisture < 3%

Benefits

- Used as a raw material for quicklime production
- Used as an ingredient in animal feed production
- Used as a filler in rubber, ceramics, paper, plastics, and paint industries

Suitable Industries



Quicklime



Animal Feed



Ceramic Tiles



SPC Floor

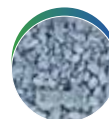


Paper Industry

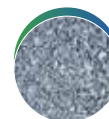
PRODUCT SIZE



50-100 mm



10-50 mm



0-10 mm



Powder
100 - 325 Mesh

SERVICE and SOLUTION

Exploration Solution

Consulting services in geology and exploration – including the evaluation of raw material and mineral sources for optimal utilization – are provided by expert geologists and mining engineers with extensive experience.



Geological Services

- Consulting services in Geology and Exploration
- Topographic and geological mapping services, including the preparation of cross-sections of mineral deposits
- Exploration of mineral deposits for construction, cement, and ceramics industries, as well as other economic minerals.
- Development of geological models and cross-sections, such as Fence Diagrams, Block Models, and Drillhole Correlations



**Geophysical Survey Services
using the Electrical Resistivity Method**

- Subsurface geological surveys and inspections in 1D, 2D, and pseudo-3D formats
- Preparation of 2D and 3D geophysical models



Drilling Services

- Core drilling for sample collection (Coring)
- Hand Auger drilling
- Percussion drilling



Geotechnical Engineering Services

- Soil and rock stability surveys and analyses

Mining Solution

Our mining and consulting services are designed to optimize raw material production for maximum efficiency and minimal environmental impact, covering every stage of the process and delivered by experienced mining engineers.

Survey & Mapping

On-site surveying and mapping



Mine Plan

Planning and defining production areas



Drill & Blast

Drilling and blasting planning



Fleet Management

Hauling and transportation



Unmanned Truck

Autonomous haulage trucks



Smart Crusher

Optimization of crushing process



Rehabilitation

Mine rehabilitation and restoration

Drone Solution

We provide aerial photography services using Drone Technology, with nationwide end-to-end data processing, operated by licensed professionals in compliance with legal standards. Suitable for surveying, mining, construction, aerial videography, and more.



Reduce survey time,
labor, and costs by 50-70%



Enhance survey safety in hazardous areas
or locations with ongoing machinery operations



Provide efficient and highly accurate survey data processing

Offer comprehensive one-stop services for all industries



1. Construction

Construction site survey services for designing and planning the utilization of a project area.



2. Mining

Topographic surveying and mapping services to support mining and quarry industries.



3. Renewable Energy

Topographic surveying services to support the planning and inspection of solar panel installations.



4. Industrial

Surveying and inspection services of machinery or hard-to-access areas to support repair and maintenance planning.



5. Water Management

Surveying and analysis services of water flow directions and catchment areas to support effective water management planning.



Silathai Sa-Nguan (2540) Co., Ltd.

1516 Pracharat 1 Rd., Wongsawang
Bang Sue, Bangkok 10800



infomineral@mineralconnect.com



063-227-9476



SCAN ME : WEBSITE

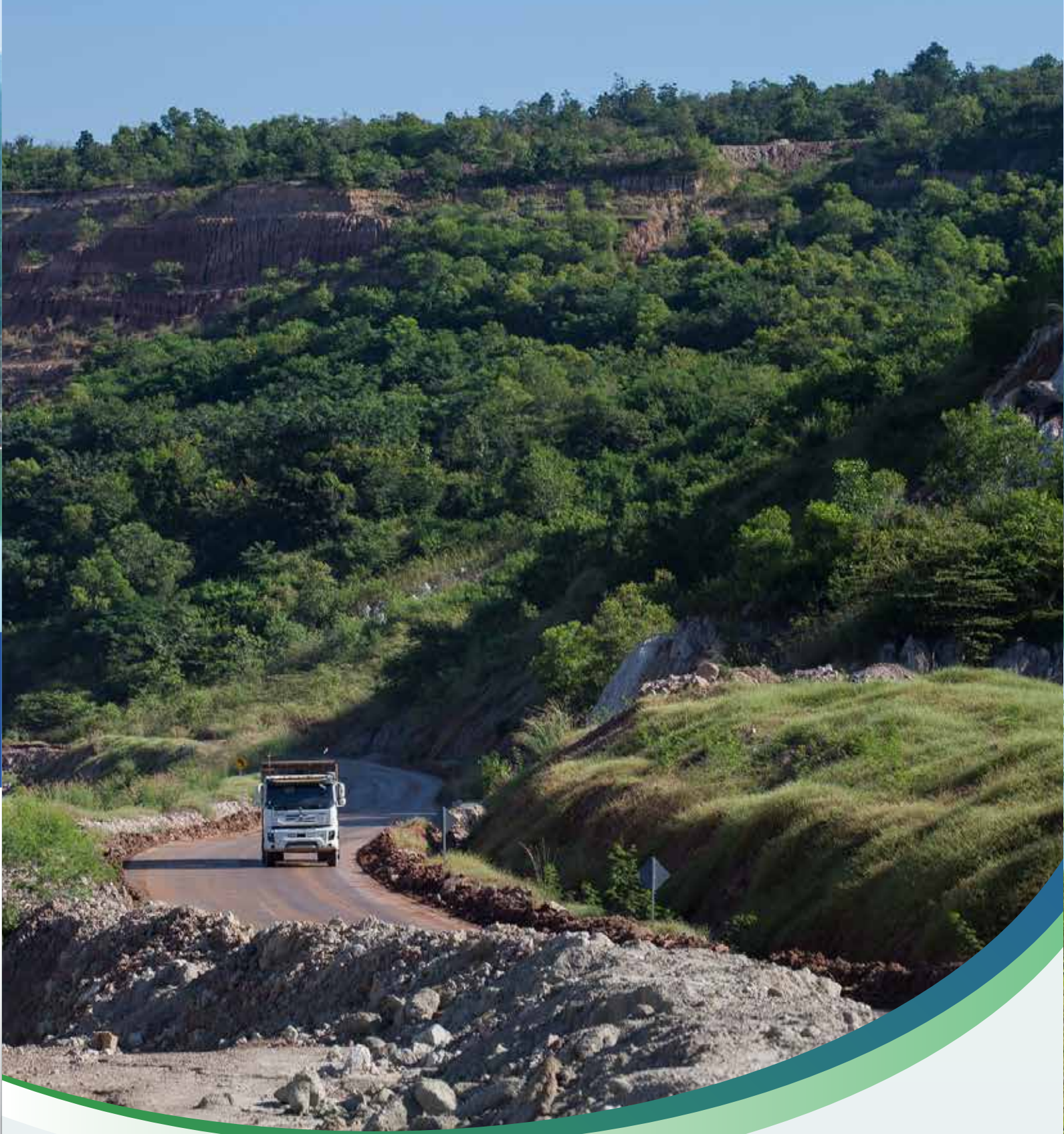


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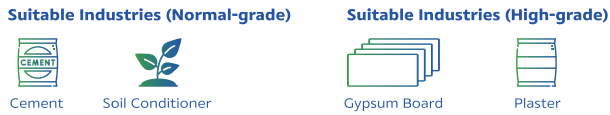
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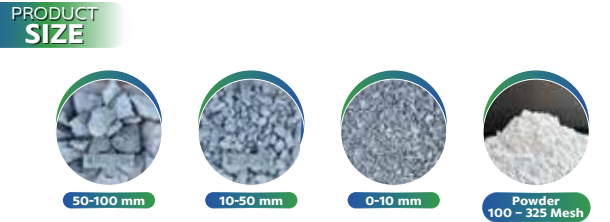
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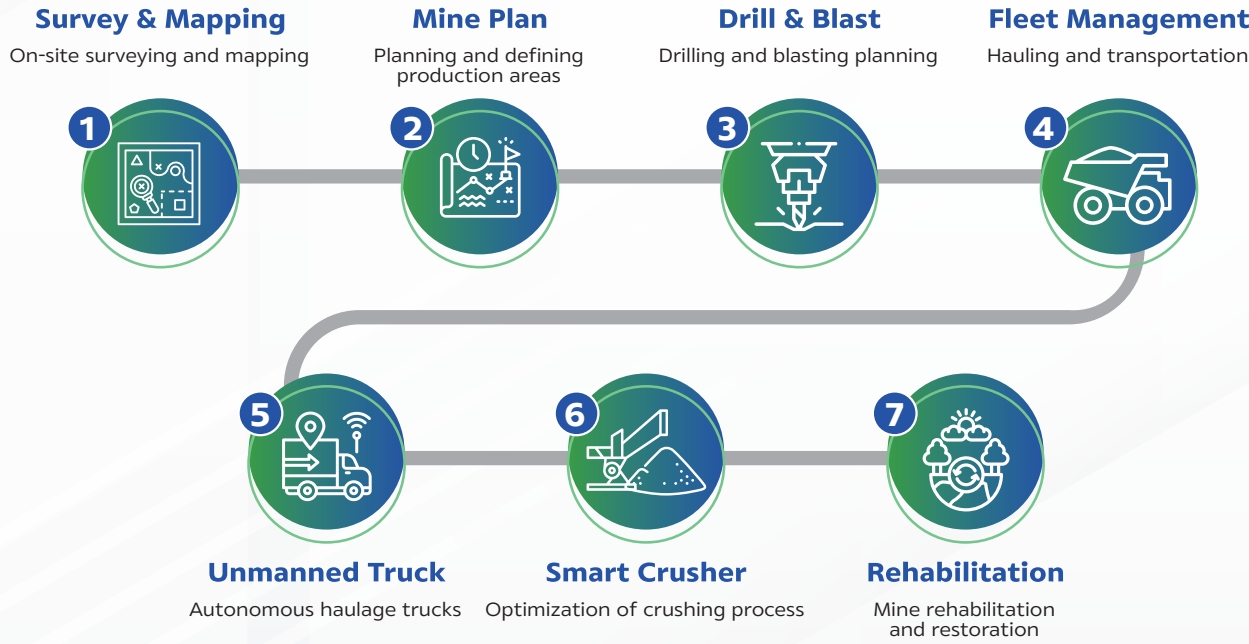
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