



LORH LA SENG

Commercial Sole Company Limited

Lump Quartz for Ferrosilicon

Bulk SAF Feedstock for ASEAN, India, Bhutan



Sector reference — ferroalloy / steel ladle pour



LLS lump quartz — 40–150 mm, FeSi-grade sizing

SiO₂ 99.5 – 99.89%

CHEMISTRY (GUANLONG XRF)

ATIGA 0% Duty

~30% LOWER LANDED COST INTO ASEAN

120,000 → 620,000 MT/yr

CAPACITY SIZED FOR LONG-TERM OFFTAKE

Bulk feedstock · ATIGA tariff edge · 85 km to Cua Lo Port · Designed for FeSi smelters within ~\$40/MT freight band

About Lorh La Seng

Lorh La Seng Commercial Sole Co., Ltd. operates hydrothermal vein-quartz deposits in Bolikhamxay Province, Lao PDR, dedicated to supplying **lump quartz feedstock** for submerged-arc furnace (SAF) smelting of Ferrosilicon (FeSi 75 / 65 / 90). Our ROM ore is naturally high-purity (SiO₂ 99.5–99.89%), with iron content already low enough for most downstream processes — without acid leaching or flotation. With a government-granted export quota of 120,000 MT/year (Mine 1) and a further 500,000 MT/year coming online in 2027 (Mine 2), we offer scale, consistency, and long-term supply security for FeSi smelters across Asia.



Vein quartz — handles wet weather without slumping



Selective blast + sort — FeSi-grade lump fraction

Ferrosilicon Grade Suitability

FeSi Grade	Si Content	Fe ₂ O ₃ in Quartz (Typ.)	LLS ROM Fit
FeSi 75 (lump)	~75%	≤ 1,500 ppm	✓ Comfortably exceeds (30–500 ppm)
FeSi 65 (granulated)	~65%	≤ 2,500 ppm	✓ Wide tolerance — easy fit
FeSi 90 (premium)	~90%	≤ 800 ppm	✓ Within range, premium lots preferred
FeSi 45 (low-grade)	~45%	≤ 3,500 ppm	✓ Wide tolerance
Mg-FeSi (nodulizer)	Si 44–48%, Mg 5–10%	≤ 1,500 ppm	✓ For ductile-iron foundry inoculant

ATIGA 0% Import Duty + 0% VAT: Lao PDR origin qualifies for zero import duty into Vietnam, Thailand, Indonesia, Malaysia, Philippines, and all ASEAN member states under the ASEAN Trade in Goods Agreement. Combined with 0% VAT for export-processing enterprises, **LLS feedstock delivers ~30% lower landed cost** versus domestic-sourced quartz across Southeast Asia.

Note: FeSi smelters are typically more cost-sensitive and tolerant on chemistry than Si-metal smelters. LLS bulk pricing reflects this — high-volume offtake contracts (≥ 30,000 MT/year) qualify for tiered discounts. Granulated FeSi 65 mills can blend LLS lump with internal fines for furnace optimization.

Why LLS for FeSi Smelters

1. Scale designed for bulk. Capacity ramping from 120,000 to 620,000 MT/year with Mine 2 online from 2027 — sized for long-term offtake contracts, not spot trades. **2. Tariff-advantaged landed cost.** Lao PDR origin under ATIGA: 0% import duty into Vietnam, Thailand, Malaysia, Indonesia, Philippines. ~30% lower landed cost vs non-ATIGA origin sources for ASEAN smelters. **3. Dense, non-porous lump.** Vein quartz handles wet weather without slumping; truck-loaded direct to Cua Lo Port (Vinh) in 85 km, then bulk vessel to ASEAN, India, Bhutan. **4. Bhutan + India proximity.** Direct vessel route to Calcutta, Visakhapatnam, Mongla — competitive freight to Tashi, Druk, Penden, Indian Metals, Kothari Steel. **5. Single-deposit consistency.** Two licensed mines under one operator means lot-to-lot chemistry doesn't wander between shipments. **6. Long-term offtake.** Open to multi-year framework agreements with built-in price-review mechanisms tied to silica index movements.



Bulk loading capacity — designed for full-vessel FeSi shipments

Target Customers & End Uses

Vietnam FeSi Smelters

Vietnam Ferro, HPF, Hoa Phat ferroalloy — domestic + export

Bhutan Ferroalloy Plants

Tashi Industries, Druk Ferro, Penden Ferro — high-quality hydropower-based FeSi

India FeSi Producers

Kothari Industrial, Indian Metals & Ferro Alloys, Modern India Concast

ASEAN Ferroalloys

OM Materials Sarawak, Pertamina ferroalloy — bulk SEA market

Steel Deoxidizer Suppliers

FeSi 75 lump for primary-steelmaking deoxidization across Asia

Foundry Inoculant Producers

Mg-FeSi nodulizer for ductile-iron foundries in VN, India, Korea

Contact

Steven Duc Nguyen

General Manager

Email: info@lorhlaseng.com

Phone: +84 90 209 2039 (VN) | +856 20 9504 9141 (Laos)

WhatsApp / WeChat / Zalo: +84 90 209 2039

Lorh La Seng Commercial Sole Co., Ltd.

Ban Vang Ban, Xay Champhone District

Bolikhamxay Province, Lao PDR

www.lorhlaseng.com