

LAKA GOLD – Complete Gold Refinery Solutions From Ore to Pure Gold Bar







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From Ore to Pure Gold Bar

About Us

LAKA GOLD Company is a specialized Iranian enterprise providing **end-to-end solutions for the gold industry**, from ore processing to final bullion refining. With years of practical experience in both **laboratory testing and industrial operations**, we offer reliable, cost-effective, and high-precision services trusted by miners, refiners, and jewelers alike.

Our mission is simple: **Deliver excellence through science**, **precision**, **and experience**.

Our Core Services

- 1. Supply and Sale of Gold Refinery Equipment
- 2. Turnkey Gold Refinery Plant Construction
- 3. Custom Design and Manufacture of Refinery Machinery
- 4. Full Consulting and Engineering for Gold Refining Projects
- 5. Investment Packages for Gold Processing Projects

Supply of Gold Refinery Equipment

We provide **state-of-the-art equipment and systems** for small, medium, and large-scale gold refining plants, tailored to client needs.

Available Systems:

- Induction & Resistance Melting Furnaces
- Electrolysis Refining Units
- · Aqua Regia Chemical Refining Systems
- · Gas Treatment & Filtration Units
- Cooling and Recovery Systems
- Gold Casting & Molding Machines

Advantages:

- Equipment sourced from leading international manufacturers
- Integration with full refinery systems
- · After-sales technical support and training

Turnkey Gold Refinery Projects

We deliver **complete**, **ready-to-operate refinery plants**—from process design and engineering to commissioning and operator training.

Our Turnkey Model Includes:

- Feasibility Studies & Process Simulation
- Custom Layout and Process Design
- Procurement and Installation
- Pilot Operation and Quality Testing
- Final Commissioning and Handover

Benefits:

- One responsible contractor one integrated system
- Optimized compatibility among all components
- Performance guarantee and operational reliability

Consulting & Engineering Services

Our consulting division covers the **entire refinery lifecycle** — from concept to commissioning.

Consulting Services Include:

- Technical and economic feasibility analysis
- ROI and operational cost estimation
- Process design and engineering documentation
- Equipment selection and integration
- Supervision during construction
- Operator training and long-term maintenance support

Why Our Consulting Is Different:

Because we **build and operate** what we design — combining **engineering expertise** with real industrial experience.

Gold Refining Flowchart (Process Overview)

Simplified Process Flow:

- 1. Smelting and Pre-Treatment
- 2. Sampling and Fire Assay (Cupellation)
- 3. Chemical Refining (Aqua Regia / Inquartation)
- 4. Electrolytic Purification
- 5. Precipitation and Washing
- 6. Final Melting and Casting of Bullion

(Visual flow diagram should be inserted here)

Comparison of Refining Methods

Method	Advantages	Disadvantages	Typical Application
Fire Assay (Cupellation)	Highest accuracy, laboratory standard	Time-consuming, requires skill	Gold purity certification
Aqua Regia	Suitable for complex scrap and mixed alloys	Uses strong acids, generates fumes	Refining of jewelry scrap and mixed metals
Inquartation & Parting	Simple for low-karat alloys	Requires silver addition	Refining of gold-silver alloys
Electrolysis	Achieves 99.99% purity, scalable	Higher energy cost	Final refining stage for pure bullion

Estimated Project Packages & Pricing

Package	Daily Capacity	Target Clients	Estimated Cost (USD)
Compact Unit	2–5 kg/day	Jewelry shops, small workshops	\$40,000 - \$80,000
Medium Plant	5-20 kg/day	Regional industrial refineries	\$120,000 - \$350,000
Full-Scale Plant	20–50 kg/day	Export-grade refinery operations	\$400,000 - \$650,000

Prices are indicative and vary based on input material, purity target, and equipment configuration.

Why Choose LAKA GOLD

- Complete Coverage: From mining and ore processing to final bullion refining
- Proven Accuracy: In-house lab testing and verified fire assay methods
- Competitive Pricing: Below international market average
- Fast Execution: On-time project delivery with full technical documentation
- After-Sales Support: Continuous assistance and spare part availability

Frequently Asked Questions

Q: How long does a refinery project take?

A: Typically 3–6 months depending on capacity and site conditions.

Q: Do you provide installation and training?

A: Yes, full on-site installation and operator training are included.

Q: Can I order only part of the system?

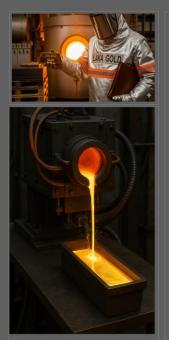
A: Absolutely, we customize packages for every client's need.

Q: Do you help with licensing and environmental permits?

A: Yes, we assist with documentation and compliance.



Gold Processing Line at the Mine Complete Turnkey Solution





Contact Information

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Let's turn your gold project into a success story.

Contact us today for a free quotation and project consultation.