



LAKA GOLD
LABKAND KAGHAZI
www.laka.ir

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



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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
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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
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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
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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.



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Gold Processing Line at the Mine Complete Turnkey Solution



Contact Information

LAKA GOLD Company

(LBKHAND KAGHAZI)

Mashhad, Iran



Office: +98 513 7665005

Mobile: +989016650528



Email: info@laka.ir



Website: www.laka.ir

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

Contact us today for a free quotation and project consultation.