

Cement Clinker Grinding & Bagging Terminal

Complete Turnkey Business Proposal



Made-in-China supplier reference: real cement clinker grinding & bagging terminal equipment.

confirmed scope investment gate	representative trial acceptance	site-ready implementation	quality record traceability
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Prepared for investment planning in Afghanistan and regional export markets. Final specifications, pricing, civil works, and utility loads require supplier quotation and site survey.

Executive Summary

A strategic cement terminal grinding imported or supplied clinker with gypsum and approved additives into controlled cement, then storing, bagging and dispatching it through dedicated receiving, grinding, classification, silo, packing, laboratory, dust-control and bulk/bag logistics systems.

Why this project fits Afghanistan

- Confirm the precise customer product, target machine or plant flow before procurement.
- Approve representative trials, measured outputs and critical safety/quality requirements before release.
- Document specifications, operating settings, inspections and maintenance responsibilities.

Sanaatchi delivery scope

- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning
- International logistics, customs documentation, operator training, spare parts, and after-sales support

Recommended configuration

Treat this as a bankable industrial project, not a low-entry line. Confirm clinker chemistry and reliable supply, off-take, cement standard, grindability, gypsum/additive source, power, transport, water, emissions controls, land, permits, finance, laboratory and experienced EPC responsibility before equipment selection.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Bagged and bulk cement	Confirmed cement standard/type, clinker and additive chemistry, Blaine/residue, strength, setting, soundness, bag weight and dispatch format	Afghan construction, infrastructure, ready-mix, block producers, contractors and regional distributors

Supplier scope, source materials, utility loads, acceptance test, installation, spare parts and operating responsibility must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Clinker receiving and storage	Protects and meters feedstock	Supply/logistics continuity
2	Additive/gypsum dosing	Controls cement recipe	Certified proportions
3	Grinding and separator system	Achieves target fineness	kWh/t and Blaine
4	Cement silos and packing	Stores and fills bags/bulk	Weight and dispatch
5	Cement laboratory/dust control	Releases compliant cement	Strength and emissions

Equipment models are indicative and will be matched to the selected capacity, local raw-material tests, available utilities, and preferred automation level.

Reference Equipment Gallery



Made-in-China supplier reference: real cement clinker grinding & bagging terminal equipment.



Made-in-China supplier reference: second real machine configuration for cement clinker grinding & bagging terminal.

Images are supplier references for configuration discussion; final equipment appearance and model may differ.

Plant, Raw Materials & Utility Requirements

Raw materials

- Confirmed clinker, gypsum, limestone/pozzolan only where approved, bag material, pallet/dispatch consumables, grinding media, filters, laboratory reagents and critical spares

Utilities & infrastructure

- Stable three-phase electricity, protected material/finished-product storage, calibrated quality-control instruments and appropriate process ventilation
- Documented maintenance, critical spares, site safety procedures and product-specific environmental controls

Quality, safety and environmental controls

- Run a bankable feasibility with confirmed clinker contract, market off-take, utilities, permits and skilled EPC/operator team
- Control feed chemistry, additive dosing, mill temperature, fineness, residue, strength, setting, bag weight, silo segregation and dust emissions
- Release cement only after standard laboratory tests; implement independent weighbridge, stock reconciliation and preventive maintenance

A final factory layout must reserve safe forklift routes, maintenance clearances, raw-material segregation, finished-goods storage, fire protection, ventilation, and future expansion space.

Indicative Investment & Implementation Plan

LOW-ENTRY CONFIGURATION

No credible cement project should be priced as a simple machine sale. Feedstock security, grid reliability, quality laboratory, dust permits, logistics and off-take are investment gates.

Component	Indicative range	Notes
Receiving, storage, dosing and grinding plant	US\$8m-30m	Capacity and mill type dependent
Silos, packing, loading and logistics	US\$3m-12m	Bag/bulk dispatch scope
Laboratory, power, dust control and installation	US\$3m-12m	Compliance-critical
Indicative strategic project total	US\$14m-54m	Land, financing, working capital and clinker stock excluded

Implementation sequence

Phase 1	2-5 weeks	Confirm product specification, representative raw material, buyer, capacity, site and utilities
Phase 2	3-7 weeks	Run supplier trials with the buyer material and freeze the balanced machine, tooling and utility scope
Phase 3	8-22 weeks	Manufacture or refurbish, inspect, document and ship the contracted equipment
Phase 4	3-12 weeks	Install, commission, train operators and pass material-specific acceptance tests

Ranges are planning targets for a low-cost entry configuration, exclude land, and remain subject to confirmed capacity, supplier quotation, freight, duties, exchange rates and site conditions.

Next Steps & Contact Information

Recommended next steps

- Confirm target products, hourly output, and packaging formats
- Test representative raw materials and document quality requirements
- Complete site survey covering electricity, water, fuel, drainage, roads, and warehouse space
- Request comparable technical and commercial quotations from shortlisted suppliers
- Finalize financing, logistics, installation, training, and spare-parts plan

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Research and image references

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