

Cement-Based Cultured Stone Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real cement-based cultured stone line equipment.

approved sample market gate	defined formats launch scope	performance test release gate	batch records 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

Casts decorative cement-based cultured-stone units in textured moulds from graded sand, cement, pigments and admixtures, followed by vibration, controlled curing, demoulding, colour finishing, inspection and packing.

Why this project fits Afghanistan

- Approve a physical sample and installation system.
- Launch only the selected formats and finishes.
- Keep material and quality records for each batch.

Sanaatchi delivery scope

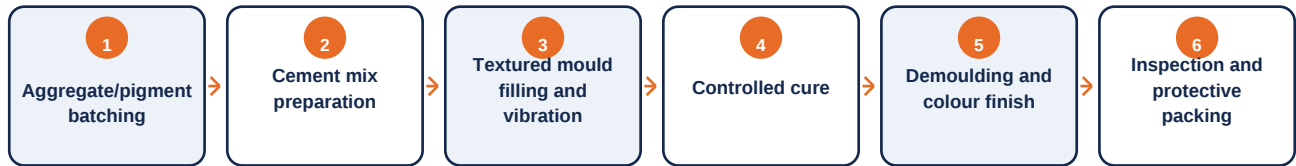
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Start with a limited mould family and proven mix design. Confirm water absorption, strength, colour consistency, mounting/adhesive compatibility and freeze/weather performance for the intended project.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Cement-based cultured stone	Texture fidelity, unit dimensions, strength, absorption, colour consistency, cure, edge quality and installation compatibility	Façade contractors, housing compounds, landscaping, retail finishing outlets and builders

Supplier scope, actual materials, performance targets and acceptance sample must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Batch mixer	Prepares repeatable cement mix	Approved water/cement ratio
2	Textured mould/vibration bench	Forms stone faces	Mould fill/density check
3	Curing racks/area	Develops strength	Cure discipline
4	Finish/QC bench	Matches approved appearance	Colour/dimension check

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-based cultured stone line equipment.



Made-in-China supplier reference: second real machine configuration for cement-based cultured stone line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Graded sand/aggregate, cement, pigments, water, admixtures, release agent, optional face-coat materials and packaging

Utilities & infrastructure

- Stable power, extraction/ventilation and dry covered production/storage
- Guarded cutting/mixing equipment, documented maintenance and essential spares

Quality, safety and environmental controls

- Check unit size, colour, texture, cure and edge damage
- Test strength and absorption from production samples
- Confirm substrate, adhesive, jointing and weather-exposure requirements

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

Cultured stone can use local cement and sand, but reliable curing, colour control and installation design are essential for façade performance.

Component	Indicative range	Notes
Mixing, moulds and vibration	US\$8k-28k	Small mould-led launch
Curing, finish and packing	US\$8k-30k	Selected stone textures
Indicative entry total	US\$20k-65k	Workshop/building and 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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