



Fibre-Cement Roofing & Facade Sheets Plant

Complete Turnkey Business Proposal



Made-in-China supplier reference: real fibre-cement roofing & facade sheets plant equipment.

bankable study investment gate	confirmed feedstock supply gate	EPC scope delivery gate	quality laboratory release gate
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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

Strategic fibre-cement sheet plant that doses cement, silica and approved reinforcing fibre, forms corrugated or flat sheets, presses, cures, coats, cuts and tests weather-resistant roofing and facade products.

Why this project fits Afghanistan

- This is a strategic plant, not a low-entry equipment package.
- Bankable feedstock, utility, permit, market, EPC and financing evidence is required before selection.
- Operate only with an independent laboratory, defined quality release and preventive-maintenance program.

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

Proceed only after asbestos-free fibre specification, cement/fibre supply, water/curing, building-code approvals, dust control, contractor demand and quality laboratory are confirmed.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Fibre-cement roofing and facade sheets	Sheet profile, thickness, density, flexural strength, water absorption, coating, length and fire/weather standard	Roofing distributors, contractors, housing projects, warehouses and facade installers

Final capacity, process, resource quality, utilities, permit conditions, emissions, acceptance test and commercial terms require independent engineering review before any order.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Raw material dosing/mixing	Makes cement slurry	Fibre dispersion
2	Sheet forming/pressing	Creates profile	Thickness and density
3	Curing and conditioning	Develops strength	Time and moisture
4	Coating/cutting/packing	Prepares dispatch sheets	Finish and dimensions
5	Laboratory and dust control	Releases compliant sheets	Strength/weather checks

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 fibre-cement roofing & facade sheets plant equipment.



Made-in-China supplier reference: second real machine configuration for fibre-cement roofing & facade sheets plant.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Cement, silica/fillers, approved cellulose/synthetic fibre, pigments/coatings, water, packaging, cutting tools and lab consumables

Utilities & infrastructure

- Bankable electricity/fuel/water plans, process cooling and treatment, plant fire safety, laboratory, covered stores and qualified operation team
- Environmental permits, emissions control, waste route, maintenance workshop, critical spares and site-specific safety systems

Quality, safety and environmental controls

- Confirm asbestos-free formulation, fibre/cement sources, curing water, standards, roof profile demand and dust/environment requirements
- Control slurry consistency, fibre dispersion, sheet weight, curing, thickness, coating and cut length
- Test flexural strength, density, absorption, dimensions, coating adhesion and weather/fire 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

Fibre-cement must use an approved asbestos-free formulation and prove durable roof performance before market launch.

Component	Indicative range	Notes
Mixing, forming and pressing	US\$35m-110m	Profile and capacity
Curing, coating, cutting and packing	US\$20m-65m	Finish portfolio
Utilities, laboratory and installation	US\$15m-45m	Water/dust controls
Indicative strategic project total	US\$70m-220m	Land and finance 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

- fibre-cement-boards-siding
- cement-production-line