

Mineral-Fibre Ceiling Tiles Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real mineral-fibre ceiling tiles line equipment.

approved sample market gate	defined range launch scope	quality 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

Forms mineral-fibre ceiling tiles from selected mineral fibre/fillers and binder through wet forming, pressing, drying/curing, surface coating, edge finishing, inspection and packing.

Why this project fits Afghanistan

- Approve a physical sample and installation system.
- Start with a focused, saleable range.
- Document material and quality checks for every 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

Treat as a medium industrial line: validate formulation, dust/waste controls, dimensional stability, moisture performance, fire classification and ceiling-grid compatibility before investment.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Mineral-fibre ceiling tiles	Tile dimensions, density, sag/moisture resistance, surface finish, edge detail, fire classification and grid fit	Offices, schools, hospitals, commercial interiors and ceiling contractors

Supplier scope, actual material, performance target and acceptance sample must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Fibre/filler batching system	Controls board composition	Approved formula
2	Wet-forming/press line	Forms tile mat	Density/thickness control
3	Dryer and coater	Cures and finishes tiles	Moisture/surface target
4	Edge/cutting/QC line	Releases grid-compatible tiles	Dimensional/fire 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 mineral-fibre ceiling tiles line equipment.



Made-in-China supplier reference: second real machine configuration for mineral-fibre ceiling tiles line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Specified mineral fibre/fillers, binder, coating/paint, edge materials, packaging and approved process water

Utilities & infrastructure

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

Quality, safety and environmental controls

- Check density, dimensions, sag resistance and coating appearance
- Control dust, water and waste streams
- Obtain required fire and ceiling-system evidence before marketing

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

A mineral-fibre line requires formulation, environmental controls and tested fire/moisture performance, not simple board cutting.

Component	Indicative range	Notes
Forming, pressing and drying	US\$300k-900k	Medium industrial wet process
Coating, edge finish and QC	US\$120k-400k	Tile performance scope
Indicative total	US\$500k-1.4m	Formula development/building 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

- <https://www.alibaba.com/showroom/mineral-fiber-ceiling-tile-production-line.html>
- https://www.made-in-china.com/products-search/hot-china-products/Mineral_Fiber_Ceiling_Tile.html