

Laminated Gypsum Ceiling-Tile Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real laminated gypsum ceiling-tile line equipment.

600 x 600 mm starter tile format	1 laminator entry converting core	2-4 décors controlled range	12-25 workforce
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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 gypsum-board converting line that laminates approved PVC film, foil or decorative facing onto purchased gypsum-board blanks, then cuts, edge-finishes, inspects and packs defined ceiling-tile formats. It is not a gypsum-board manufacturing plant.

Why this project fits Afghanistan

- Converting purchased board limits capital compared with full gypsum-board manufacture.
- Adhesive cure, facing alignment and edge quality determine contractor acceptance.
- One size and a limited décor range reduce scrap and inventory.

Sanaatchi delivery scope

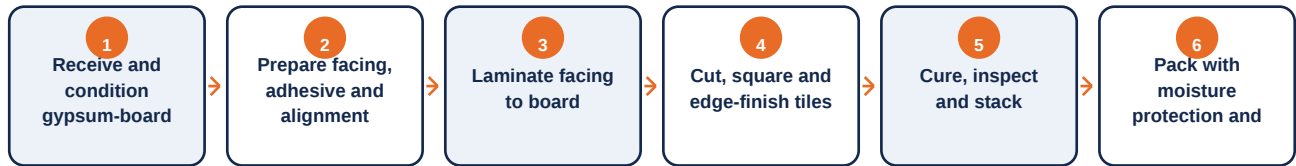
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Begin with one 600 x 600 mm or locally demanded format, a qualified board supplier, approved adhesive/film pair, heat and peel tests, moisture-controlled storage and contractor sample approvals.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Laminated gypsum ceiling tiles	Tile size, thickness, face adhesion, squareness, moisture condition, décor and edge quality	Ceiling installers, retailers, offices, shops and housing fit-out projects

A supplier must prove the defined process with representative material, utilities and documented acceptance testing.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Board feeder and surface preparation	Stabilises facing bond	Qualified board blanks
2	Roll/flat laminator and adhesive unit	Applies decorative facing	Validated adhesive/film pair
3	Precision cutting and edge finishing	Makes installable tiles	One defined format
4	Peel-test tools and packing station	Releases durable tiles	Batch test records

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 laminated gypsum ceiling-tile line equipment.



Made-in-China supplier reference: second real machine configuration for laminated gypsum ceiling-tile line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Purchased gypsum-board blanks, PVC/foil/decorative facing and approved adhesive
- Edge materials, labels, cartons, shrink film and pallets

Utilities & infrastructure

- Stable three-phase electricity with verified connected load
- Guarded machinery, lockout, ventilation and fire protection
- Covered raw-material and finished-goods storage
- Maintenance tools, safe lifting and critical spare parts
- Stable power, dust extraction, adhesive ventilation and dry storage
- Cutting guards, fire controls and moisture-protected finished-goods area

Quality, safety and environmental controls

- Check board thickness, moisture and surface before lamination
- Record adhesive, temperature/pressure and facing alignment
- Test peel bond, tile size, squareness, edge quality and visible surface

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

Keep the scope as board converting, not gypsum-board manufacture: one saleable size, tested adhesive/facing and local installation partners.

Component	Indicative range	Notes
Laminator, adhesive and board handling	US\$10k-35k	One starter format
Cutting, edge finish and quality tools	US\$8k-25k	Controlled décor range
Workshop, freight, installation and spares	US\$7k-20k	Dry converting area
Indicative low-entry total	US\$25k-80k	Board and facing inventory 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/gypsum-ceiling-tile-lamination-machine.html>
- https://www.made-in-china.com/products-search/hot-china-products/Gypsum_Ceiling_Tile_Machine.html