

Decorative 3D Gypsum Wall-Panel Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real decorative 3d gypsum wall-panel line equipment.

local gypsum core input	reusable moulds process basis	dry finish release gate	small team entry operation
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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 compact casting line making repeatable 3D gypsum wall panels from measured gypsum slurry, fibre reinforcement and designed moulds, followed by setting, demoulding, controlled drying, edge finishing and packing.

Why this project fits Afghanistan

- Use local gypsum only after test casting.
- Mould quality and controlled drying govern saleable finish.
- Launch with a focused design range and contractor samples.

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 6-10 contractor-approved 3D designs and one panel size; prove flatness, reinforcement and dry handling before adding patterns.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
3D gypsum wall panels	Panel size, relief depth, flatness, reinforcement, edge accuracy and dryness	Interior decorators, retailers, offices, hotels and housing projects

Supplier must demonstrate the selected mould, recipe and acceptance sample before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Mixer and dosing station	Controls workable gypsum slurry	Tested recipe
2	3D silicone/fibreglass moulds	Forms repeatable relief pattern	6-10 starter designs
3	Casting tables and drying racks	Protects panel flatness	Panel-size matched
4	Trimming and packing tools	Releases installable panels	Edge/sample approval

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 decorative 3d gypsum wall-panel line equipment.



Made-in-China supplier reference: second real machine configuration for decorative 3d gypsum wall-panel line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Afghan gypsum, clean water, glass fibre/hessian and approved retarder
- Release agent, pigments/finish materials, cartons and edge protection

Utilities & infrastructure

- Covered dry workshop and finished-goods storage
- Dust control, guarded tools and safe lifting
- Measured water, approved mould release and batch records
- Workshop electricity, ventilation and packing area

Quality, safety and environmental controls

- Verify mould surface, relief detail and reinforcement placement
- Check panel size, flatness, edges, dryness and visible finish

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

Add designs only after contractors reorder approved samples; oversized panels require stronger handling controls.

Component	Indicative range	Notes
Mixing, casting and starter moulds	US\$8k-22k	6-10 pattern range
Drying, trimming and packing	US\$5k-15k	Manual finish scope
Indicative low-entry total	US\$18k-50k	Land and working capital 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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