



Asphalt Roofing-Shingle Factory

Complete Turnkey Business Proposal



Made-in-China supplier reference: real asphalt roofing-shingle factory 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

Asphalt-shingle plant that coats fibreglass mat with modified asphalt, applies coloured granules, cools, laminates/cuts patterns, packs bundles and verifies weather and adhesion performance.

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 bitumen, fibreglass mat and granule supply, roof-market demand, fire/fume controls, local climate requirements and installation partner network are proven.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Asphalt roofing shingles	Shingle profile, mat weight, asphalt coating, granule colour, wind resistance, fire/weather class and bundle coverage	Housing developers, villas, commercial roofs, contractors, distributors and renovation projects

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	Mat and asphalt preparation	Prepares base web	Coating chemistry
2	Coating/granule application	Creates weather face	Coverage and adhesion
3	Cooling/lamination	Stabilises shingle	Bond and flatness
4	Cutting/bundling/packing	Creates sale packs	Pattern and coverage
5	Weather/fire laboratory	Releases shingles	Wind and adhesion

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 asphalt roofing-shingle factory equipment.



Made-in-China supplier reference: second real machine configuration for asphalt roofing-shingle factory.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Bitumen/modifiers, fibreglass mat, coloured mineral granules, release film, packaging, fuel, adhesives 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 roof market, climate/wind/fire requirements, bitumen/mat/granule supply, fume control and installers
- Control coating mass, granule coverage, laminate bond, cut pattern, bundle count, flexibility and colour consistency
- Test weight, adhesion, flexibility, wind resistance, water performance, fire/weather class and bundle coverage

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

Asphalt shingles require certified roof performance for local wind, heat and fire conditions; visual design alone is not enough.

Component	Indicative range	Notes
Coating, granule and cooling line	US\$25m-80m	Shingle design/capacity
Cutting, bundling and lab	US\$10m-35m	Pattern portfolio
Fume, utilities and installation	US\$12m-40m	Safety/environment scope
Indicative strategic project total	US\$47m-155m	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

- bituminous-waterproof-membrane-factory
- fibre-cement-boards-siding