

Precast Drainage Channels & Covers Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real precast drainage channels & covers line equipment.

approved sample market gate	defined formats launch scope	performance 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

Produces precast drainage channels, trench units, covers and grates from controlled concrete mix through moulding, reinforcement where designed, vibration, cure, demoulding, fit/load checks and packing.

Why this project fits Afghanistan

- Approve a physical sample and installation system.
- Begin with selected sizes, profiles and finishes.
- Keep material and quality records for every batch.

Sanaatchi delivery scope

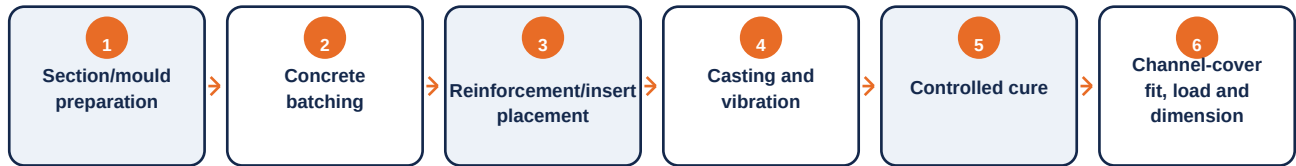
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

Screen a small/medium channel system after confirming hydraulic size, cover load class, joints, installation bedding and lifting/handling method.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Precast drainage channels and covers	Channel section, flow capacity, wall thickness, cover load class, joint fit, reinforcement, cure and installation detail	Road works, compounds, factories, municipalities, housing and civil contractors

Supplier scope, actual materials, installation requirements and acceptance sample must be confirmed before purchase.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Concrete mixer	Prepares channel mix	Strength/durability recipe
2	Channel/cover moulds	Forms drainage system	Hydraulic section defined
3	Vibration/cure beds	Compacts and cures units	Cure/load control
4	Fit/QC station	Checks system performance	Joint/cover fit test

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 precast drainage channels & covers line equipment.



Made-in-China supplier reference: second real machine configuration for precast drainage channels & covers line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Cement, graded aggregate, water, admixtures, reinforcement where designed, lifting inserts, seal/joint samples and packaging

Utilities & infrastructure

- Stable power, covered production/storage and reliable water where concrete is used
- Guarded cutting/forming equipment, documented maintenance and essential spares

Quality, safety and environmental controls

- Confirm channel hydraulic size and site slope
- Test concrete strength, cover load class, joint fit and cure
- Define bedding, excavation, lifting and maintenance access before supply

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

Drainage units are civil systems: hydraulic capacity, cover load class, bedding and joint alignment must be selected together.

Component	Indicative range	Notes
Mixing, moulds and vibration	US\$15k-55k	Small/medium channel system
Curing, handling and QC	US\$12k-45k	Cover/load-quality scope
Indicative entry total	US\$35k-120k	Civil works/transport 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/roof-tile-production-line.html>
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