

Livestock Mineral Salt-Lick Block Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real livestock mineral salt-lick block line equipment.

2-5 kg launch block weight	100-200 t press screening range	1 formula registered starter product	5-9 entry 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 micro/small feed-supplement line converting released feed-grade salt and an animal-nutritionist-approved mineral premix into dense lick blocks through ingredient quarantine, fine crushing and screening, micro-ingredient weighing, batch dry mixing, controlled binder or moisture addition where formulated, mould dosing, hydraulic pressing, demoulding, optional low-temperature drying, hardness and weight testing, wrapping, coding and dry storage. It is not a complete livestock feed line.

Why this project fits Afghanistan

- Local salt can support an affordable livestock mineral-supplement product when nutrition and contaminants are controlled.
- One block weight and one approved formula reduce dosing and inventory risk.
- A single-mould hydraulic cell offers a much lower entry than a high-capacity automatic press line.
- Incorrect mineral inclusion can harm animals; professional formulation and registration are mandatory.

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 one 2-5 kg cattle/sheep block formulated and registered by a qualified animal nutritionist. Screen a 100-200 t hydraulic press with one mould, small salt crusher/sieve, locked micro-premix weighing, 250-500 kg ribbon mixer, controlled binder dosing, press feeder, demoulding table, drying racks, scale and compression/handling tests. Do not copy mineral inclusion rates from machinery suppliers.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Cattle/sheep mineral lick block	Registered species-specific formula, 2-5 kg weight, mineral guarantees, contaminants, hardness and weathering limits	Livestock farmers, veterinary channels and feed distributors
Plain salt lick block	Separate feed-grade salt and contaminant specification	Only where veterinarian/nutritionist recommends it

The press forms blocks but does not validate nutrition. A qualified nutritionist must set species, life stage, intake target, salt, calcium, phosphorus, magnesium and trace-mineral limits and avoid toxic excess. Acceptance measures mix uniformity, block weight, density, compression, drop/transport durability, dissolution/weathering, guaranteed minerals, heavy metals, microbiology and field intake under veterinary supervision.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Salt crusher and screen	Produces consistent feed-grade salt granulation	Dust-contained small unit
2	Locked micro-ingredient station	Prevents trace-mineral dosing error	Calibrated dedicated scales
3	Ribbon mixer	Distributes salt, minerals and binder uniformly	250-500 kg batch
4	Binder/moisture dosing	Controls compaction and block integrity	Formula-specific
5	Hydraulic salt-block press	Compacts one 2-5 kg block format	100-200 t screening range
6	Mould, feeder and demould table	Controls weight and protects green blocks	One launch geometry
7	Conditioning/drying racks	Stabilizes blocks before wrapping	Validated time and moisture
8	Feed QC and packing tools	Releases nutrition, weight and strength	Batch traceability

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 livestock mineral salt-lick block line equipment.



Made-in-China supplier reference: second real machine configuration for livestock mineral salt-lick block line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Feed-grade Afghan salt with controlled contaminants
- Registered species-specific macro/trace-mineral premix
- Approved feed binder and potable water only where formulated
- Moisture barrier wrap/bags, cartons, labels, mould release and press spares

Utilities & infrastructure

- Registered feed premises with ingredient segregation and pest control
- Stable three-phase power for mixer and hydraulic press
- Dry secured micro-premix and finished-block storage
- Dust extraction at crushing, dosing and mixing
- Laboratory access and retained-sample/recall system

Quality, safety and environmental controls

- Release every salt and premix lot against registered formula
- Use dual verification for micro-ingredient weighing
- Validate mixer uniformity and binder/moisture addition
- Record press fill weight, pressure, dwell and cycle
- Test block weight, density, compression and drop durability
- Confirm minerals/contaminants and supervised animal acceptance

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

The lowest credible cell uses one registered formula, one mould and a supported 100-200 t press. Automated multi-mould handling, building, ingredients and working capital are excluded.

Component	Indicative range	Notes
Salt preparation, micro-dosing and mixer	US\$6k-16k	One registered formula
100-200 t press, mould and handling	US\$10k-25k	2-5 kg single format
Racks, laboratory and packing	US\$4k-10k	Feed-quality release
Freight, installation, registration and spares	US\$5k-14k	Local regulatory scope
Indicative installed low-entry total	US\$25k-65k	Building, ingredients 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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