

Popcorn Cleaning, Flavouring & Packing Line

Complete Turnkey Business Proposal



Supplier reference: real controlled industrial popcorn machine with integrated agitation and discharge.

50-100 kg/h starter finished output	2-4 launch flavour options	20-45 kW indicative connected load	4-7 entry operators
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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

This line converts popping-grade maize into a light ready-to-eat snack. It cleans and meters kernels, pops them under controlled heat, removes unpopped kernels and fines, applies a measured oil or sugar system and seasoning, cools the product before packing, then seals it against moisture. Popping yield, breakage, seasoning uniformity and barrier-film performance are the key commercial controls.

Why this project fits Afghanistan

- A small batch line supports low-cost launch packs for shops, schools and travel markets.
- Popping maize can be sourced regionally while local seasoning, labor and secondary packing add value in Afghanistan.
- One popper and tumbler can test several flavours without a large continuous line.
- Moisture-barrier packs create a shelf-stable branded snack with room for later automatic weighing and packing.

Sanaatchi delivery scope

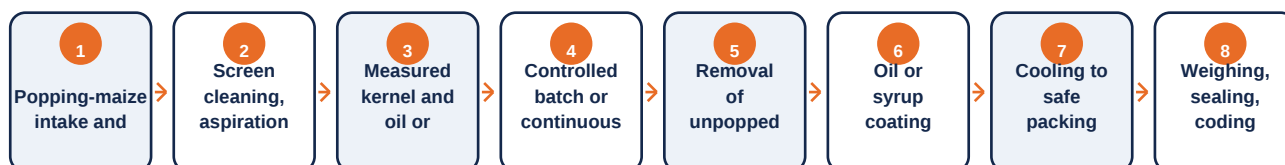
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

For the lowest credible entry, select a 50-100 kg/h batch system with a kernel cleaner, controlled popper, coarse screen, seasoning drum, cooling table and semi-automatic packing. Approve one salted and one sweet or spiced recipe using representative popping maize before ordering automatic continuous equipment.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Salted popcorn	High popped-kernel yield, uniform salt and low unpopped-kernel count	Retail shops, schools and food service
Spiced popcorn	Validated local seasoning with uniform coverage	Convenience and regional distribution
Sweet or caramel-style popcorn	Controlled coating, dryness and non-sticky pack performance	Premium retail and gift packs

Supplier references show complete lines from popping through dispersion, cooling, screening and seasoning, with published capacities from about 100 to 500 kg/h. Sanaatchi's lower-entry plan uses batch equipment and semi-automatic packing; actual output must be proven with the selected maize variety, heat source and recipe because popping expansion and coating materially change hourly capacity.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Kernel cleaner and magnet	Removes dust, stalk, stones and ferrous contamination	Food-grade screens sized for popping maize
2	Measured feeder	Controls kernel and oil or sugar dose per batch	Repeatable recipe weights
3	Popcorn machine	Applies controlled heat and agitation for kernel expansion	50-100 kg/h entry output with adjustable time and temperature
4	Coarse screen and fines separator	Rejects unpopped kernels and loose fines	Easy-access sanitation design
5	Seasoning tumbler	Applies measured oil, syrup or dry flavour	Variable-speed stainless food-contact drum
6	Cooling table or perforated conveyor	Stops cooking and prevents condensation in the pack	Product temperature approved before filling
7	Weigher and pack sealer	Portions and closes moisture-barrier packs	Semi-automatic starter scope with date coder
8	Oil or syrup preparation vessel	Prepares consistent coating where the recipe requires it	Optional heated and agitated food-grade vessel

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



Supplier reference: real controlled industrial popcorn machine with integrated agitation and discharge.



Supplier reference: alternate stainless popcorn processing unit photographed with finished product.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Popping-grade maize with buyer-approved expansion ratio
- Food-grade oil, salt, sugar, spices and permitted flavours
- High-barrier laminated pouches or film
- Labels, coding ink and secondary cartons
- Approved sanitation materials

Utilities & infrastructure

- Stable electricity matched to popper, drives and packing equipment
- Selected electric, gas or induction heat source with safe exhaust
- Potable water for sanitation and syrup preparation where applicable
- Washable food-production surfaces and drainage
- Dry ingredient, film and finished-product storage

Quality, safety and environmental controls

- Approve maize variety for expansion, moisture, damage, mold and mycotoxin risk
- Record kernel dose, popping time, temperature and unpopped-kernel percentage
- Control oil, sugar, salt and seasoning weights for each recipe
- Remove hard unpopped kernels before packing
- Verify cooling temperature, pack weight, seal integrity and lot code
- Validate water activity, crispness, rancidity risk and stated shelf life

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

Lowest entry uses one batch popper, essential kernel separation, a small seasoning drum, manual cooling and semi-automatic packing. Land, building, maize, ingredients and packaging working capital are excluded.

Component	Indicative range	Notes
Cleaning, feed and batch popping section	US\$5k-13k	One controlled starter popper
Screening, seasoning and cooling	US\$4k-10k	Simple flexible flavour section
Semi-automatic weighing, sealing and coding	US\$3k-9k	Launch with limited bag sizes
Electrical, exhaust, installation and initial spares	US\$2k-6k	Include food-grade local tables where suitable
Freight and clearance	US\$3k-8k	Confirm dimensions and heat-source restrictions
Indicative low-entry total	US\$17k-46k	Building, ingredients, film stock and shelf-life tests excluded

Implementation sequence

Phase 1	2-3 weeks	Approve popping maize, recipes, pack sizes and heat source
Phase 2	2-3 weeks	Run supplier trials and confirm popped yield and full scope
Phase 3	4-8 weeks	Manufacture, inspect and ship the selected equipment
Phase 4	2-3 weeks	Install, train, validate food safety and complete shelf-life trials

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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