

Wheat Cleaning, Grading & Bagging Line

Complete Turnkey Business Proposal



Supplier reference: installed grain-cleaning equipment with aspiration and conveying.

1-3 t/h lowest-entry throughput	98-99.5% supplier cleaning references	25-50 kg starter bag range	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 upgrades locally traded wheat without milling it. It removes foreign matter, stones, dust, shriveled kernels and off-size fractions, then weighs and closes saleable bags. The same basic equipment can serve food-grain traders; certified seed production needs separate varietal identity, germination testing, treatment controls and regulatory approval.

Why this project fits Afghanistan

- Cleaning raises the consistency and saleability of Afghan wheat before milling or trade.
- The line can serve farmers, grain collectors, mills, wholesalers and institutional buyers.
- Broken, light and foreign fractions are separated rather than shipped as paid weight.
- A modular plant can add color sorting or seed treatment after stable contracts are secured.

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 at 1-3 t/h with an air-screen cleaner, destoner, gravity separator and 25-50 kg bagger; add color sorting or seed treatment only when the target market requires it. Keep food wheat and chemically treated seed strictly separate.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Clean food wheat	Foreign matter and moisture to buyer agreement	Flour mills, traders and institutions
Graded wheat	Defined size and density fractions	Premium food-grain contracts
Seed wheat	Only after varietal, germination and regulatory approval	Licensed agricultural channels

Supplier lines range from compact 1.25 t/h units to modular 1-20 t/h plants with air-screen cleaning, destoning, gravity separation, grading and quantitative packing. Cleaning efficiency claims must be verified with the buyer's wheat and an agreed incoming contamination level.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Intake hopper and elevator	Receives bags and feeds the line steadily	Guarded pit or above-floor hopper
2	Air-screen cleaner	Removes dust, chaff and over/undersize impurities	1-3 t/h entry screens for local wheat
3	Destoner	Separates stones with similar grain size	Adjustable air and deck settings
4	Magnetic separator	Removes ferrous contamination	Accessible before sensitive machines
5	Gravity separator	Rejects light, shriveled and damaged kernels	Supplier trial on representative wheat
6	Vibration grader	Classifies cleaned wheat by size	Interchangeable screens for buyer grades
7	Dust collector and ducts	Controls aspiration dust and housekeeping load	Explosion-aware design and safe discharge
8	Weighing and bag-closing station	Fills, sews or seals saleable bags	25-50 kg semi-automatic entry scope

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: installed grain-cleaning equipment with aspiration and conveying.



Supplier reference: modular wheat-cleaning and grading plant with elevators.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Afghan wheat lots with supplier and origin records
- Food-grade or seed-grade bags as applicable
- Thread, labels and coding consumables
- Seed-treatment chemical only in a separately approved seed operation

Utilities & infrastructure

- Stable three-phase electricity
- Dust extraction and weather-protected intake
- Dry ventilated grain and finished-bag storage
- Calibrated moisture meter, scales and sampling tools
- Pest control, fire protection and safe truck circulation

Quality, safety and environmental controls

- Sample each incoming lot for moisture, infestation and foreign matter
- Set and document screen, air and gravity-table adjustments
- Measure clean-grain purity, damaged kernels and rejected fraction
- Verify bag weight, closure, label and lot traceability
- For seed wheat, test varietal purity and germination and isolate chemical treatment
- Control combustible grain dust and prohibit ignition sources

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 excludes color sorting and seed treatment, uses a 1-3 t/h cleaner, destoner, gravity separator and semi-automatic bagger, with local platforms and installation labor.

Component	Indicative range	Notes
Cleaner, destoner and elevators	US\$9k-20k	Simple 1-3 t/h configuration
Gravity separator and grader	US\$6k-14k	Add only stages justified by buyer quality
Dust collection and bagging	US\$4k-10k	Semi-automatic 25-50 kg bags
Electrical, local installation and spares	US\$3k-8k	Local platforms where safely engineered
Freight and clearance	US\$4k-10k	Container count follows final layout
Indicative low-entry total	US\$26k-62k	Color sorter, building and wheat stock excluded

Implementation sequence

Phase 1	1-2 weeks	Confirm food or seed market, quality limits, bags and wheat samples
Phase 2	2-4 weeks	Trial-clean samples and freeze the required machine stages
Phase 3	5-9 weeks	Manufacture, inspect and ship the line
Phase 4	2-4 weeks	Install, balance airflow, train operators and approve lots

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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