

Medicinal Herb Drying & Sorting Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real multi-stage medicinal-herb and flower dryer.

100-250 kg/batch starter fresh-herb load	2 validated launch botanicals	35-60°C trial drying range	6-10 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

A post-harvest line for traceable Afghan leaves, flowers, stems and selected roots, covering inspection, optional washing, draining, controlled low-temperature drying, cooling, gentle separation, size grading and protected bulk packing. Drying recipes must be specific to the botanical part and buyer specification.

Why this project fits Afghanistan

- Afghanistan has marketable aromatic and medicinal plants that often lose value through poor drying.
- Controlled drying reduces mold, discoloration and volatile-aroma loss.
- Separate botanical lots support traceability and buyer sampling.
- A batch workshop can operate near seasonal collection areas.

Sanaatchi delivery scope

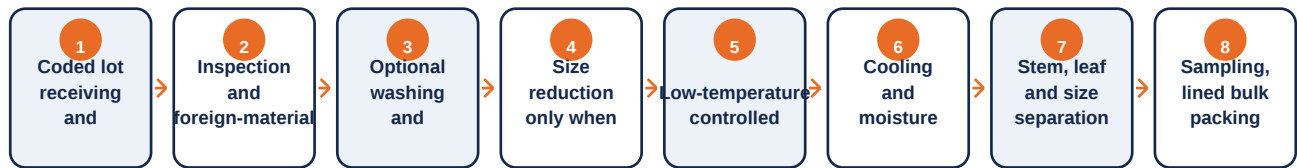
- Factory setup planning, supplier pre-qualification, and technical comparison
- Complete production-line and individual equipment supply
- Factory layout, utilities, civil-work coordination, installation, and commissioning
- Raw-material sourcing, trial-batch qualification, and repeat supply planning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

Recommended configuration

For the lowest credible entry, use washable sorting tables, optional manual washer, a 100-250 kg/batch heat-pump or indirect-air cabinet dryer, small stem/leaf separator, interchangeable sieve and lined bulk-bag sealer. Begin with two botanicals that share compatible drying conditions.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Dried medicinal leaves and flowers	Buyer-approved identity, color, aroma, moisture, microbiology and foreign matter	Herbal tea, extract and ingredient buyers
Separated dried stems or roots	Declared botanical part and controlled size fraction	Extractors and traditional-product manufacturers where permitted

The line must not mix botanicals or promise medicinal efficacy. Acceptance uses representative fresh lots and records load, inlet moisture, drying time, product temperature, final moisture, color, aroma, foreign matter and mass yield. Roots may require separate washing and cutting equipment.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Receiving and inspection tables	Codes lots and rejects damaged material	Washable food-grade surfaces
2	Optional washer and drain rack	Removes soil where wet cleaning is allowed	Potable final rinse
3	Herb cutter	Produces even drying thickness when required	Guarded low-speed blades
4	Batch cabinet or heat-pump dryer	Controls air temperature and moisture removal	100-250 kg/batch product-dependent
5	Cooling and equalization bins	Prevents condensation before grading	Covered breathable holding
6	Stem and leaf separator	Gently separates botanical fractions	Speed and gap trialled per herb
7	Vibratory grading sieve	Creates buyer-approved size grades	Interchangeable screens
8	Bulk-bag sealer and scales	Packs and reconciles released lots	Lined moisture-barrier bags

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 multi-stage medicinal-herb and flower dryer.



Made-in-China supplier reference: real stem-and-leaf separation machine for dried medicinal crops.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Correctly identified traceable Afghan medicinal plants
- Potable water where washing is approved
- Food-grade lined bags, labels and cartons
- Cleaning, sampling and moisture-test materials

Utilities & infrastructure

- Stable electricity matched to the selected equipment
- Potable process water where product contact occurs
- Washable food-grade rooms with pest and dust control
- Segregated raw-material, packaging and finished-goods storage
- Compressed air, steam or cooling water only where specified

Quality, safety and environmental controls

- Verify botanical species and permitted plant part before processing
- Reject mold, insects, chemical contamination and mixed species
- Validate drying temperature and time for each botanical
- Measure moisture and water activity where required
- Test microbiology, pesticide residues and heavy metals to buyer plan
- Segregate lots and protect dry herbs from moisture, light and pests

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 dryer, manual preparation and two validated botanicals. Continuous belt drying, optical sorting, extract production, building and seasonal working stock are excluded.

Component	Indicative range	Notes
Sorting, washing and preparation	US\$3k-8k	Manual low-cost launch
Batch dryer and heat source	US\$7k-18k	100-250 kg/batch
Stem separation and grading	US\$3k-9k	Two launch botanicals
Packing and quality tools	US\$2k-6k	Bulk lined bags
Freight, installation and spares	US\$4k-9k	Dryer ducting confirmed
Indicative low-entry total	US\$19k-50k	Building, plant stock and laboratory certification excluded

Implementation sequence

Phase 1	2-3 weeks	Confirm product specifications, capacity, packs and regulatory route
Phase 2	2-4 weeks	Run representative Afghan raw-material and packaging trials
Phase 3	5-9 weeks	Manufacture, inspect and ship the approved equipment
Phase 4	3-5 weeks	Install, train and validate process, hygiene and release controls

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://guoxinmachine.en.made-in-china.com/product/QfhrgWDKauRZ/China-Industrial-Herb-Dryer-Valerian-Madder-Dandelion-Flower-Leaf-Root-and-Drying-Machine.html>

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