

Rosewater Distillation & Bottling Line

Complete Turnkey Business Proposal



Made-in-China supplier reference: real stainless rose hydrosol and essential-oil distillation system.

100-200 L/batch starter still volume	2 heads entry bottle filler	1-2 launch bottle sizes	5-9 seasonal 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 seasonal line for receiving fresh Afghan roses, rapid loading, steam or hydrodistillation, vapor condensation, hydrosol collection, filtration, protected holding, hygienic bottle filling, capping, coding and labeling. The proposal treats rosewater as the main product and separately recovers any essential-oil fraction.

Why this project fits Afghanistan

- Afghan roses can support local culinary, hospitality and personal-care rosewater.
- Same-day processing protects aroma and reduces flower deterioration.
- Hydrosol bottling needs less oil yield than an essential-oil-only business.
- A small seasonal still can buy from nearby growers and expand by adding vessels.

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 a 100-200 L stainless batch still with condenser and oil-water separator, small treated-water system, covered hydrosol tank, cartridge filtration and two-head semi-automatic filler/capper for one or two bottle sizes. Locate near rose supply and process the same day.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Food-grade rosewater	Buyer-approved aroma, clarity, microbiology, fill volume and sealed bottle	Retail, bakeries, beverages, hospitality and food service
Cosmetic-grade rose hydrosol	Declared process, filtration, microbiology and compatible package	Personal-care formulators subject to applicable rules

Fresh-flower quality, flower-to-water ratio, loading density, steam rate and fraction cut determine aroma. Acceptance must use local roses and selected water, measure distillation yield, clarity, aroma, microbiology, fill accuracy, cap torque and shelf stability. Preservatives, if any, require formulation and label review.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Rose receiving and sorting tables	Rejects decayed flowers and records source	Same-day coded batches
2	Treated-water unit	Supplies consistent low-odor process water	Sized to still and cleaning demand
3	Stainless batch still	Extracts rose volatiles into vapor	100-200 L working vessel entry
4	Condenser and cooling loop	Condenses aromatic vapor efficiently	Cooling water sized for peak steam
5	Oil-water separator	Separates trace essential oil from hydrosol	Visible controllable fraction cut
6	Covered hydrosol tank and filter	Holds and clarifies released rosewater	Closed food-grade path
7	Two-head liquid filler and capper	Fills and closes selected bottles	One or two launch sizes
8	Coder and label station	Applies lot, date and product identity	Readable moisture-resistant code

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 stainless rose hydrosol and essential-oil distillation system.



Made-in-China supplier reference: real small-bottle filling and capping machine suitable after product trials.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Fresh traceable Afghan roses processed promptly
- Treated potable process water
- Food-grade bottles, caps, labels and cartons
- Approved filtration and cleaning 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

- Define accepted rose variety, freshness and rejected defects
- Record flower weight, water, time, temperature and fraction cut
- Use safe steam and pressure equipment with trained operators
- Test clarity, aroma, pH and microbiology
- Validate bottle compatibility, fill volume, cap torque and leakage
- Protect finished rosewater from heat, light and contamination

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 small batch still, local seasonal labor and semi-automatic bottling. A second still, automatic rinsing/labeling, cold room, building, flower stock and certification are excluded.

Component	Indicative range	Notes
100-200 L still, condenser and separator	US\$7k-18k	One seasonal batch vessel
Water, cooling and hydrosol holding	US\$3k-8k	Closed product path
Filtration, filling and capping	US\$4k-11k	Two-head semi-automatic entry
Coding and quality tools	US\$2k-5k	One or two bottle sizes
Freight, installation and spares	US\$4k-9k	Steam and cooling interfaces
Indicative low-entry total	US\$20k-51k	Building, roses, bottles and 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

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