

# Beeswax Candle Production Line

Complete Turnkey Business Proposal

 **Genyond**



*Made-in-China supplier reference: real beeswax candle production line equipment.*

|                                           |                                              |                                       |                               |
|-------------------------------------------|----------------------------------------------|---------------------------------------|-------------------------------|
| <b>1 candle size</b><br>controlled launch | <b>1-2 mould families</b><br>starter tooling | <b>20-80 kg/day</b><br>workshop basis | <b>3-6</b><br>entry workforce |
|-------------------------------------------|----------------------------------------------|---------------------------------------|-------------------------------|

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/workshop line converting verified Afghan beeswax into one moulded candle family through wax receipt and identity checks, controlled melting, coarse and fine filtration, temperature-managed mould filling, wick preparation and centring, cooling, demoulding, trimming, burn testing, labelling and carton packing. It is not a paraffin-blend or scented-candle line unless those inputs and claims are separately validated.

### Why this project fits Afghanistan

- Afghan beekeeping can retain more value through clean, traceable wax conversion.
- A single candle format controls wick, burn and packaging variables at launch.
- Pure beeswax requires verification because paraffin adulteration changes performance.
- Gift, religious and household channels need clean appearance and safe burning behaviour.

### 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

Launch one plain pillar or taper candle size using a jacketed wax melter, two-stage filtration, one or two mould families, wick-cutting/centring tools, cooling racks, trimming station, precision scale and burn-test bench. First qualify local wax for adulteration, melting range, colour, odour, ash and batch consistency before promising a pure-beeswax product.

## Manufacturing Process & Product Portfolio

### Integrated process flow



### Target products

| Product                      | Typical specification                                                                                                    | Primary market                                         |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Plain moulded beeswax candle | Declared wax content, dimensions, mass, wick type, burn time, flame stability, drip, soot, fragrance status and lot code | Afghan household, gift, religious and tourism channels |

Do not use a supplier output figure as saleable output. Acceptance uses local wax and the nominated mould and wick. Record melt temperature, filtration loss, fill mass, cooling time and reject rate. Test each initial lot for wax identity, melting range, ash, colour, odour, candle mass, wick centring, burn rate, flame height, self-extinguishing where specified, dripping, soot, tip-over stability and package appearance.

## Core Equipment Schedule

| Step | Equipment                               | Function                                      | Indicative parameter       |
|------|-----------------------------------------|-----------------------------------------------|----------------------------|
| 1    | Jacketed wax melter and settling tank   | Melts and holds wax without local overheating | 20-80 kg/day basis         |
| 2    | Coarse and fine wax filters             | Removes hive debris and visible contaminants  | Food-safe cleanable system |
| 3    | Wick cutter and mould-centring tools    | Prepares consistent candle combustion core    | One wick family            |
| 4    | Silicone or metal candle moulds         | Forms one controlled pillar or taper product  | One or two sizes           |
| 5    | Cooling, trimming and burn-test station | Releases safe finished candles                | Retained lot sample        |

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

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MACHINE  
**Genyond**



*Made-in-China supplier reference: real beeswax candle production line equipment.*



*Made-in-China supplier reference: second real machine configuration for beeswax candle production line.*

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

## Plant, Raw Materials & Utility Requirements

### Raw materials

- Verified Afghan beeswax with source and purity records
- Cotton or approved natural-fibre wick matched by burn trials
- Labels, protective sleeves, small boxes and master cartons

### Utilities & infrastructure

- Stable three-phase electricity with verified connected load
- Guarded machinery, lockout, ventilation and fire protection
- Covered segregated raw-material and finished-goods storage
- Maintenance tools, safe lifting and critical spare parts
- Washable wax-handling floor and temperature-safe storage
- Clean non-food fragrance area only if a separate scented product is approved

### Quality, safety and environmental controls

- Sample wax for adulteration, melting range, ash, colour and odour
- Control melt and fill temperature and filtration loss
- Verify wick length and centring
- Check candle mass, dimensions and surface defects
- Run burn-time, flame, soot, drip and tip-over tests
- Check label wax claim, lot code and carton protection

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 entry makes one unscented moulded candle from authenticated wax. Decorative colours, fragrances and many shapes are delayed until wick and burn tests are repeatable.

| Component                            | Indicative range | Notes                           |
|--------------------------------------|------------------|---------------------------------|
| Melter, filters and hand tools       | US\$2k-7k        | Single plain candle family      |
| Moulds, cooling and trim station     | US\$2k-8k        | One or two sizes                |
| Testing, packing and starter spares  | US\$1k-4k        | Burn-test bench included        |
| Freight, setup and wax trials        | US\$2k-6k        | Local-wax qualification         |
| Indicative installed low-entry total | US\$7k-25k       | Building and wax stock 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

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### 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://www.alibaba.com/showroom/beeswax-candle-making-machine.html>
- [https://www.made-in-china.com/products-search/hot-china-products/Beeswax\\_Candle\\_Making\\_Machine.html](https://www.made-in-china.com/products-search/hot-china-products/Beeswax_Candle_Making_Machine.html)