SANAATCHI
INDUSTRIAL VISION GROUP

Barbed-Wire Production Line

Complete Turnkey Business Proposal

Made-in-China supplier reference: real barbed-wire production line equipment.

60-70 kg/h	**2 strands**	**102-127 mm**	**2-4**
supplier entry output	**launch construction**	**launch barb pitch**	**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 small wire-twisting line converting purchased galvanized or PVC-coated low-carbon steel wire into conventional double-strand barbed wire through coil receiving and coating inspection, four-coil payoff, controlled strand feeding, barb-wire cutting and wrapping, strand twisting, programmed barb-pitch and length control, coil take-up, edge/point inspection, weighing, binding and traceable dispatch. Razor wire and wire galvanizing are different processes and are excluded.

Why this project fits Afghanistan

- Farms, compounds and security projects consume conventional barbed wire in repeat coils.
- Buying finished coated wire avoids hazardous galvanizing at entry.
- One wire and barb-pitch specification minimizes setup and slow inventory.
- Sharp-point geometry, coating damage, coil length and safe handling determine acceptance.

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 with one conventional double-strand specification using purchased hot-dip-galvanized wire: about 2.5-2.8 mm strand wire, 2.0-2.2 mm barb wire and one 102 or 127 mm barb pitch, subject to buyer approval. Screen one guarded CS-A/CS-C machine with four controlled payoffs, automatic length counter, coil take-up, scale and binding tools. Do not confuse this line with razor-wire punching or a galvanizing plant.

Manufacturing Process & Product Portfolio

Integrated process flow

Target products

Product	Typical specification	Primary market
Double-strand galvanized barbed wire	One strand/barb diameter, barb count, pitch, point, twist, coating, coil length and mass	Farms, compounds, contractors and security merchants
PVC-coated barbed wire	Separate core wire, finished diameter, colour and coating-adhesion approval	Selected corrosion/appearance applications after buyer trial

Conventional barbed wire, concertina razor wire and single-strand products are not interchangeable. Supplier acceptance uses the exact coated wire and measures steady output, diameters, barb count, point length/sharpness, pitch, twist direction/count, strand tension, coating damage, coil length/mass and safe unwinding. Guards and lockout are mandatory around rotating payoff and twist assemblies.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Four controlled wire payoffs	Feeds strand and barb coils without tangling	Contracted coil size
2	Guarded double-strand barbed-wire machine	Cuts/wraps barbs and twists carrier wires	CS-A/CS-C class
3	Barb-pitch and length controller	Controls spacing and finished coil length	One launch pitch
4	Coil take-up and binding stand	Builds transportable coils	Buyer coil mass
5	Wire/coating gauges and scale	Releases geometry and quantity	Calibrated tools
6	Point inspection and safe handling tools	Protects product and workers	Gloves, guards, warning labels

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 barbed-wire production line equipment.

Made-in-China supplier reference: second real machine configuration for barbed-wire production line.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Purchased hot-dip-galvanized or approved PVC-coated low-carbon wire
- Coil binding wire/straps, warning labels and protective wrap
- Cutters, gears, guides, bearings and critical wear parts

Utilities & infrastructure

- Stable three-phase or supplier-confirmed electrical supply
- Dry coated-wire and finished-coil storage
- Full rotating-machine guarding and emergency stops
- Safe coil lifting, payoff clearance and pedestrian segregation
- Metal debris collection and fire-safe housekeeping

Quality, safety and environmental controls

- Release wire diameter, tensile condition and coating
- Verify payoff tension, twist and barb tool setup
- Measure barb count, pitch, point and twist at fixed intervals
- Inspect coating scratches, broken strands and loose barbs
- Calibrate coil length and mass
- Perform safe unwinding and fence-installation sample trial

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 buys finished galvanized wire and makes one conventional double-strand product. Razor-wire punching, wire drawing/coating, building and working wire stock are excluded.

Component	Indicative range	Notes
Machine, four payoffs and take-up	US$7k-18k	One double-strand specification
Guards, inspection and coil handling	US$3k-8k	Mandatory safety/release
Packing tools and starter wear parts	US$2k-6k	Cutters and guides
Freight, installation and training	US$3k-9k	Compact workshop
Indicative installed low-entry total	US$15k-41k	Wire coating, building and wire 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

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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