

School Furniture Line

Complete Turnkey Business Proposal



Complete production-line reference for School Furniture Line

1 shift entry operation	Local build cost advantage	Modular future automation
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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 proposal presents a practical low-entry school furniture line for Afghanistan. Tube cutting, CNC bending, powder coating and assembly for desks and chairs. The starting configuration prioritizes economical Chinese machinery, local fabrication of noncritical items, affordable local labor, simple buildings and phased automation.

Why this project fits Afghanistan

- Local production can replace selected imported finished goods.
- Affordable land, labor and local fabrication reduce the entry threshold.
- A one-shift starting model limits working-capital pressure.
- Modular equipment allows capacity to grow with confirmed sales.

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

Start with one semi-automatic shift and the minimum core equipment needed for school furniture line; add automatic handling and higher-speed packing after demand is proven.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Student desks	Confirm size, grade, formulation and pack specification for student desks	Afghanistan and nearby regional buyers
Classroom chairs	Confirm size, grade, formulation and pack specification for classroom chairs	Afghanistan and nearby regional buyers
Teacher desks	Confirm size, grade, formulation and pack specification for teacher desks	Afghanistan and nearby regional buyers
School storage furniture	Confirm size, grade, formulation and pack specification for school storage furniture	Afghanistan and nearby regional buyers

The proposed flow is derived from the website product scope: Tube cutting, CNC bending, powder coating and assembly for desks and chairs. Final machine models, recipes, output and quality standards must be confirmed against local raw materials and buyer requirements.

Core Equipment Schedule

Step	Equipment	Function	Indicative parameter
1	Material storage and handling	Performs the defined material storage and handling operation within the school furniture process.	Confirm capacity, working range, utilities, construction material, controls and acceptance test.
2	Cutting machine	Reduces or prepares material to the size required by the next school furniture stage.	State feed size, finished size, throughput, blade or wear-part material.
3	CNC or drilling machine	Performs the defined cnc or drilling machine operation within the school furniture process.	Confirm capacity, working range, utilities, construction material, controls and acceptance test.
4	Bending or forming equipment	Performs the principal forming operation that creates the school furniture product or web.	Confirm working width or mould, output, speed, tooling and quality tolerance.
5	Welding or joining station	Performs the defined welding or joining station operation within the school furniture process.	Confirm capacity, working range, utilities, construction material, controls and acceptance test.
6	Surface-finishing equipment	Finishes, assembles or collects the school furniture product to its specified final form.	State finished dimensions, speed, tooling, tension or pressure and changeover needs.
7	Assembly benches	Performs the defined assembly benches operation within the school furniture process.	Confirm capacity, working range, utilities, construction material, controls and acceptance test.
8	Inspection tools	Checks incoming material or finished school furniture against the agreed acceptance criteria.	Define defect limits, test method, sampling rate and reject arrangement.
9	Packing equipment	Measures, closes, identifies or groups finished school furniture for sale and transport.	State pack sizes, packaging material, speed, coding and change-parts required.
10	Air compressor and maintenance tools	Provides the controls or auxiliary service needed for safe, stable school furniture operation.	Confirm utility load, control interfaces, environmental duty and redundancy need.

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



Complete production-line reference for School Furniture Line



Real supplier equipment reference for School Furniture Line



Real supplier equipment reference for School Furniture Line

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Steel, aluminum, timber, board or polymer inputs
- Fasteners, adhesives and fittings
- Paint, powder or surface finish
- Packaging cartons and protection
- Replacement tools and consumables

Utilities & infrastructure

- Three-phase power
- Compressed air
- Dust or fume extraction
- Local fabrication workshop
- Finished-goods storage
- Truck and forklift access

Quality, safety and environmental controls

- Incoming-material inspection and supplier records
- Documented machine settings and production batches
- Routine dimensional, visual and functional checks
- Safe guarding, emergency stops and operator training
- Final product sampling before release and dispatch

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

Afghanistan entry case: economical Chinese equipment, locally fabricated noncritical items, local civil works and labor, phased automation, and land excluded. Optional automation can be added after sales are established.

Component	Indicative range	Notes
Entry production machinery	US\$40k-180k	Economy configuration using local labor where practical
Local workshop and utilities	US\$15k-60k	Economy configuration using local labor where practical
Finishing and tools	US\$12k-50k	Economy configuration using local labor where practical
Freight and installation	US\$12k-45k	Economy configuration using local labor where practical
Working capital	US\$15k-60k	Economy configuration using local labor where practical
Low-entry project total	US\$94k-395k	Economy configuration using local labor where practical

Implementation sequence

Phase 1	2-3 weeks	Confirm products, entry capacity and buyer requirements
Phase 2	3-5 weeks	Compare suppliers and finalize the economy configuration
Phase 3	6-12 weeks	Manufacture equipment and prepare the local workshop
Phase 4	3-6 weeks	Shipping and customs clearance
Phase 5	2-4 weeks	Installation, training, trials and market launch

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

Sanaatchi Industrial Vision Group

Afghanistan Office: +93 779 819 820 | info@sanaatchi.com

China Office: +86 159 5171 6867 | china@sanaatchi.com

Website: www.sanaatchi.com

Research and image references

- Real production-line image reference: <https://www.bs-yc.com/uploads/image/20191211/1576032459.png>
- Real production-line image reference: <https://image.made-in-china.com/2f0j00mtGeOBPdIDrs/Quality-Plastic-Machinery-with-CE-HDPE-Blow-Molding-Machine-Stable-Plastic-Blow-Molding-Machine.jpg>
- Real production-line image reference:
<https://image.made-in-china.com/2f0j00TybBEUKMbHkI/High-Frequency-Plywood-Dinning-School-Chair-Seat-Back-Bending-Machine.jpg>