SANAATCHI
INDUSTRIAL VISION GROUP

# Welded Steel-Pipe & Tube Mill

Complete Turnkey Business Proposal

*Made-in-China supplier reference: real welded steel-pipe & tube mill equipment.*

| bankable study | confirmed feedstock | EPC scope | quality laboratory |
|---|---|---|---|
| **investment gate** | **supply gate** | **delivery gate** | **release gate** |

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

Strategic welded-pipe manufacturing that slits steel coil, roll-forms tube, ERW welds, sizes, cuts, tests, galvanises or coats where selected, bundles and dispatches specified pipe and hollow sections.

## Why this project fits Afghanistan

- This is a strategic plant, not a low-entry equipment package.
- Bankable feedstock, utility, permit, market, EPC and financing evidence is required before selection.
- Operate only with an independent laboratory, defined quality release and preventive-maintenance program.

## 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 | Proceed only after coil supply, required sizes/standards, welding power, water, test protocol, coating route, buyer demand and experienced tube-mill technical support are bankable. |
|---|---|

# Manufacturing Process & Product Portfolio

## Integrated process flow


## Target products

| Product | Typical specification | Primary market |
|---|---|---|
| Welded steel pipes and tubes | Steel grade, diameter/section, wall thickness, weld quality, length, test standard, finish/coating and bundling | Construction, water and irrigation, fencing, furniture, scaffolding, fabricators and distributors |

Final capacity, process, resource quality, utilities, permit conditions, emissions, acceptance test and commercial terms require independent engineering review before any order.

# Core Equipment Schedule

| Step | Equipment | Function | Indicative parameter |
|---|---|---|---|
| 1 | Coil slitting and accumulator | Prepares strip | Width and edge quality |
| 2 | Roll forming and ERW welding | Forms welded tube | Weld integrity and speed |
| 3 | Sizing/cut-off line | Produces required dimensions | Diameter, wall and length |
| 4 | Hydrostatic/NDT test line | Verifies pipe quality | Pressure and weld test |
| 5 | Coating/galvanising and bundling | Protects/dispatches product | Finish and pack |

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 welded steel-pipe & tube mill equipment.*


*Made-in-China supplier reference: second real machine configuration for welded steel-pipe & tube mill.*

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

# Plant, Raw Materials & Utility Requirements

## Raw materials

- Certified steel coil, welding consumables, zinc/coating chemicals where selected, cutting tools, cooling water, packaging straps and laboratory consumables

## Utilities & infrastructure

- Bankable electricity/fuel/water plans, process cooling and treatment, plant fire safety, laboratory, covered stores and qualified operation team
- Environmental permits, emissions control, waste route, maintenance workshop, critical spares and site-specific safety systems

## Quality, safety and environmental controls

- Confirm coil grade/price, size mix, welding and pressure-test standards, coating demand, utilities and buyer volumes
- Control strip width, forming, ERW parameters, weld scarfing, size, straightness, cut length and coating
- Test dimensions, wall thickness, weld/NDT, hydrostatic pressure where required, coating and bundle identity

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**

Pipe-mill value is built on coil economics, weld quality and a confirmed size/standard mix - not a generic roll-forming line.

| Component | Indicative range | Notes |
|---|---|---|
| Slitting, forming, ERW and sizing mill | US$22m-75m | Diameter and speed |
| Testing, cut-off, coating and packing | US$12m-45m | Standard/finish scope |
| Utilities, laboratory and installation | US$10m-35m | Weld/testing support |
| Indicative strategic project total | US$44m-155m | Land, finance and working capital 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

- galvanized-roofing-sheet-roll-forming-line
- rebar-rolling-mill