



Porcelain Tableware Factory

Complete Turnkey Business Proposal



Made-in-China supplier reference: real porcelain tableware factory equipment.

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

Strategic porcelain-tableware manufacturing that prepares refined ceramic body, forms plates, cups and bowls, dries, bisque-fires, glazes, fires, decorates where required, inspects and packs hotel, household and food-service ware.

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 proving ceramic raw-material consistency, reliable fuel/power, water, kiln and glaze capability, food-contact standards, product range, buyer off-take, export packing and experienced ceramic technical management.

Manufacturing Process & Product Portfolio

Integrated process flow



Target products

Product	Typical specification	Primary market
Porcelain tableware	Approved plate, bowl, cup and serving-ware range; body composition, whiteness, fired strength, glaze, decoration, dimensions, food-contact and packing standard	Hotels, restaurants, caterers, household retailers, wedding markets, distributors and export buyers

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	Body preparation and spray drying	Produces controlled porcelain granulate	Mineralogy and moisture
2	Pressing/jiggering/casting line	Forms tableware blanks	Shape, wall and cycle
3	Drying and bisque firing	Stabilises green ware	Moisture and kiln curve
4	Glazing/decorating and final kiln	Creates finished ware	Glaze, colour and firing
5	Inspection/packing laboratory	Releases food-service ware	Dimensions, defects and food-contact

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 porcelain tableware factory equipment.



Made-in-China supplier reference: second real machine configuration for porcelain tableware factory.

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

Plant, Raw Materials & Utility Requirements

Raw materials

- Validated kaolin, ball clay, feldspar, silica, alumina where specified, glazes, stains/decorations, plaster/resin moulds, kiln refractories/fuel, packaging 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 body mineralogy, water/fuel/power, product portfolio, food-contact and decoration requirements, buyer samples and trained technical leadership before procurement
- Control slurry/body rheology, press or casting dimensions, drying, bisque curve, glaze application, final firing, warpage, whiteness, crazing, pinholes and packing
- Test fired dimensions, water absorption, thermal shock, glaze defects, lead/cadmium migration where applicable, mechanical resistance and carton-drop performance

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

Porcelain tableware is won by body consistency, firing discipline and a saleable design range. The project needs confirmed customers before choosing shapes, kilns and decoration equipment.

Component	Indicative range	Notes
Body preparation, spray drying and forming	US\$22m-70m	Product shapes and automation
Drying, kilns, glazing and decorating	US\$35m-115m	Fuel, firing and decoration scope
Laboratory, packing, utilities and installation	US\$14m-45m	Food-contact and export quality
Indicative strategic project total	US\$71m-230m	Mine, 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

- ceramic-sanitaryware-factory
- ceramic-tile-factory