

Tomato paste plant business plan İÇİ½ bankable financial plan with DSCR

Target application: tomato paste plant business plan

Reference configuration: 60 t/h fresh tomato to 28İÇİ½30 İÇİ½Brix aseptic paste

MCF Technology prepares the financial plan with the same engineering team that designs the plant, so the business plan and the technical scope cannot diverge. The model covers CAPEX, working capital for the campaign, revenue, EBITDA, a 3İÇİ½10 year debt structure with grace period, DSCR by year and break-even revenue.

SCOPE OF SUPPLY

- CAPEX schedule aligned with the construction and commissioning plan
- Campaign working capital and seasonality of cash flow
- Revenue model on bulk and packaged paste
- Operating cost model with energy and labour sensitivity
- Debt structure: 3İÇİ½10 year tenor, grace period, amortisation profile
- DSCR by year, break-even revenue and bankability grade AİÇİ½D

TYPICAL OUTPUTS

Bank-ready financial model İÇİ½ DSCR and covenant profile İÇİ½ Break-even revenue and safety margin İÇİ½ Bankability grade with risk matrix

DIMENSIONS AND BUILDING ENVELOPE

Process building footprint	2,000İÇİ½3,000 mİÇİ½ for the concentration and aseptic section
Clear height	9İÇİ½12 m under beam, 12İÇİ½18 m for the evaporator tower
Evaporation bay	450İÇİ½700 mİÇİ½ including vacuum unit, condensers and pump gallery
Aseptic filling room	120İÇİ½200 mİÇİ½ controlled area, 4.5 m clear height
Bulk paste storage	600İÇİ½1,200 mİÇİ½ per 10,000 t of 30 İÇİ½Brix paste
Heaviest single lift	18İÇİ½26 t (evaporator body)

LAYOUT İÇİ½ FUNCTIONAL ZONES IN FLOW ORDER

1 İÇİ½ Feed buffer	Pulp buffer tanks from the break section, feed pumps and inline İÇİ½Brix control
2 İÇİ½ Evaporation	Double / triple effect falling-film, forced circulation or MVR train
3 İÇİ½ Standardisation	Brix trim loop with inline refractometer, İÇİ½ 0.3 İÇİ½Brix at steady state
4 İÇİ½ Sterilization	Tubular or scraped-surface steriliser, hold cell >= 90 s, flash cooling
5 İÇİ½ Aseptic filling	220 L bag-in-drum, 1,000 L IBC, 3İÇİ½20 L bag-in-box
6 İÇİ½ Utilities & CIP	Steam, condensate recovery, cooling towers, CIP/SIP skid

UTILITIES AND CONSUMPTION

Installed power	1,400İÇİ½2,100 kW for the concentration and aseptic section
Steam	10İÇİ½18 t/h at 8İÇİ½12 bar (multi-effect); 4İÇİ½8 t/h with MVR

Cooling water	800İ½1,400 mİ½/h circulating on condensers and flash coolers
Compressed air	600İ½1,000 Nmİ½/h at 7 bar, oil-free for the aseptic zone
Steam consumption per tonne	0.22İ½0.32 t steam per tonne of evaporated water, effect count dependent
Manning	10İ½16 operators per shift including QC

CAPEX, OUTPUT AND PAYBACK

From CAPEX to DSCR

The business plan starts from the same capacity / CAPEX grid and adds the debt structure: 3İ½10 year tenor, grace period during construction, DSCR and break-even revenue per year.

30 t/h fresh tomato	Turnkey CAPEX: İ½4.5 İ½ 6.5 million Annual output: 9 000 İ½ 12 000 t/year of 30 İ½Brix paste EBITDA: 18 İ½ 24% of revenue Payback: 4.5 İ½ 6 years Commissioning: 12 İ½ 15 months contract-to-commissioning
60 t/h fresh tomato (reference)	Turnkey CAPEX: İ½8 İ½ 11 million Annual output: 19 000 İ½ 24 000 t/year of 30 İ½Brix paste EBITDA: 20 İ½ 26% of revenue Payback: 4 İ½ 5.5 years Commissioning: 14 İ½ 18 months contract-to-commissioning
120 t/h fresh tomato	Turnkey CAPEX: İ½14 İ½ 19 million Annual output: 38 000 İ½ 48 000 t/year of 30 İ½Brix paste EBITDA: 22 İ½ 28% of revenue Payback: 3.5 İ½ 5 years Commissioning: 16 İ½ 20 months contract-to-commissioning

Assumptions behind the figures

- Campaign of 90İ½110 days per year, 20İ½22 productive hours per day.
- Hot break line, evaporation to 28İ½30 İ½Brix, aseptic filling in 220 L bag-in-drum or 1 000 L IBC.
- Yield 5.5İ½6.5 t of fresh tomato per tonne of 30 İ½Brix paste, depending on inbound İ½Brix.
- CAPEX is turnkey scope: process equipment, automation, installation, commissioning and training; civil works and land excluded.
- EBITDA and payback assume export bulk paste pricing and no financing cost inside the operating margin.

Indicative engineering ranges used by MCF Technology for budget screening. Final CAPEX, EBITDA and payback are fixed only in the feasibility study, once inbound İ½Brix, campaign length, utilities cost and target packaging are confirmed.

INSTALLATION, SITE CONDITIONS AND SCOPE BOUNDARIES

- Scope of supply: process equipment, automation, mechanical and electrical erection, commissioning, FAT/SAT, HACCP validation and operator training.
- Excluded from the ranges: land, civil works, building steelwork, external utility generation and import duties.
- Installation, commissioning and after-sales service are delivered worldwide by MCF crews, with remote diagnostics on the SCADA.

TECHNICAL FAQ

What makes a business plan bankable?

Consistency between technical scope and numbers, explicit assumptions, a DSCR above the lender's threshold across the amortisation profile, working capital modelled for the campaign, and sensitivity analysis on the variables that actually move İ½Brix, energy tariff and paste price.

What DSCR should the model show?

Lenders commonly require a minimum DSCR of 1.20İ½1.30. MCF reports DSCR by year with the break-even revenue at DSCR 1.00, so the safety margin is visible rather than implied.

What debt tenor is realistic?

3İ½10 years depending on lender, country and guarantees, usually with a grace period covering construction and the first campaign.

Does MCF guarantee the projected results?

No. The model is a projection built on declared assumptions and indicative engineering ranges; MCF guarantees the technical performance of the plant under contract, not market prices or yields.

Can the plan support a grant or export-credit application?

Yes. The structure follows what development funds, export credit agencies and commercial lenders request, and the technical annexes come from the same feasibility study.

NEXT STEPS

- Full technical page: <https://mcftechnology.group/en/tomato-paste-plant-business-plan>
- Configure the line and request the feasibility study: <https://mcftechnology.group/en/configurator>
- Run the ROI simulator: <https://mcftechnology.group/en/roi-simulator>
- Build the bankable financial plan (3½-10 years): <https://mcftechnology.group/en/financial-plan>
- Request a quotation: <https://mcftechnology.group/en/contact>

DISCLAIMER

All figures in this datasheet are indicative engineering ranges used by MCF Technology for budget screening and layout discussion of the reference configuration. They are not a quotation, not a performance guarantee and not the audited result of a specific plant. Final specification, dimensions, utilities and CAPEX are fixed in the feasibility study on your product, packaging formats, utilities cost and site conditions.