Food / OQ-07

Processing lines: full utilisation during the season

Processing capacity is to be increased to 4.5 million tonnes by 2027. The season is short, so every hour of downtime is costly.

The season lasts 60 days. How many days did the line actually run?

Experts estimate that 10–15% of fruit and vegetables are processed. PQ-136 provides for increasing processing capacity from 3,488 thousand t in 2024 to 4,480 thousand t in 2027. Fruit and vegetable processing has grown 2.5-fold in three years.

Conceptual architecture. No operating results are shown.

01 Raw material	Intake · Queue · Waiting
02 Line	Running · Downtime · Speed
03 Quality	Rejects · Packaging · Batch
04 Report	OEE · Shift · Season

At a glance

4,480 thousand t — Processing capacity target by 2027 (PQ-136). [1]

10–15% — Expert estimate: share of fruit and vegetables that are processed. [2]

2.5× — Growth in fruit and vegetable processing over the last three years. [3]

November 2026

01 Evidence and context

Who it is for

Plant owner	Capacity.
Production	Plan.
Engineer	Downtime.
Quality	Rejects.

Facts and global practice

trade.gov

PQ-136: processing capacity 3,488 thousand t (2024) → 4,480 thousand t (2027). [1]

Industry experts (uzdaily.uz)

Only 10–15% of fruit and vegetables are processed. [2]

Ministry of Agriculture (agroberichtenbuitenland.nl)

Over the last three years the food industry has reached UZS 133 trillion, and fruit and vegetable processing has grown 2.5-fold. [3]

This indicator for Uzbek enterprises was not found in open sources; it is measured during the audit.

02 Where the losses occur

Waiting for raw material

The line stands idle waiting for raw material to arrive.

Minor stops

Short stops that go unrecorded.

Changeover

Product changeover and cleaning.

Rejects

Packaging and container defects.

How the loss is calculated

Downtime	downtime hours (h) × hourly output (units/h) × margin per unit
Raw material spoilage	tonnes spoiled while waiting
Rejects	rejected units × unit cost
Extra shifts	extra hours (h) × labour cost per hour

Illustrative calculations; establish the baseline, units and rates during the site assessment. Avoid counting the same loss twice.

OEE: every shift, the whole season

Run/stop data from line signals and counters; the operator selects the stop reason; linked to raw material intake.

01 Raw material

Intake · Queue · Waiting

02 Line

Running · Downtime · Speed

03 Quality

Rejects · Packaging · Batch

04 Report

OEE · Shift · Season

Modules

Line signals	PLC/sensor	Engineering capability
Downtime reason panel	Operator	Engineering capability
OEE report	Shift/season	Engineering capability
Raw material intake	Scales	Engineering capability

Each module has a readiness status. Third-party results are not a forecast for your site.

04 Implementation and measurement

01 Audit

Line and intake.

Output: measurement plan.

02 Pilot

At the start of the season.

Output: OEE baseline.

03 Scale-up

All lines.

Output: plant OEE.

04 Subscription

Season.

Output: trend.

What is measured

OEE	%	System
Waiting for raw material	Hours	System
Minor stops	Count	Signal
Rejects	%	Counter

What is needed to start

- Head of production
- List of lines
- Season plan
- Intake process

05 Readiness checklist and next step

01 Is OEE measured?	Yes / No / Unknown
02 Is the downtime reason recorded?	Yes / No / Unknown
03 Is the raw material waiting time known?	Yes / No / Unknown
04 Is changeover time measured?	Yes / No / Unknown
05 Are rejects visible by line?	Yes / No / Unknown
06 Is an analysis carried out at the end of the season?	Yes / No / Unknown
07 Is intake coordinated with the line?	Yes / No / Unknown
08 Are shifts compared?	Yes / No / Unknown
09 Are decisions on new lines based on OEE?	Yes / No / Unknown
10 Is there a responsible person?	Yes / No / Unknown

What we do not promise

• Exact timeline and price without an audit

• Certificate or inspection result

• Guaranteed export approval

• Unmeasured results

Line audit

We measure the OEE baseline on one processing line.

• Map of disconnection points

• Pilot plan

• Implementation fee and monthly subscription

Scope, price and schedule are agreed after reviewing the site and its data.

06 Sources and scope

[1] PQ-136 (April 2025): cold storage capacity 1,306 thousand t (2024) → 1,930 thousand t (2027); processing 3,488 → 4,480 thousand t. trade.gov, Uzbekistan Country Commercial Guide.

trade.gov

[2] Industry experts: 2,011 cold stores, 1.14 million t capacity; covers 4.9% of produce; post-harvest losses 20–30%; 10–15% processed. uzdaily.uz (via freshplaza.com).

uzdaily.uz

freshplaza.com

[3] Ministry of Agriculture statement: food industry UZS 133 trillion, processing grew 2.5-fold. agroberichtenbuitenland.nl, 15.01.2026.

agroberichtenbuitenland.nl

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