

Bottled-water plant solutions

From the well to the door in one system

Treatment, a quality lab, production in every size, returnable jugs and van sales – tied to accounting and inventory, and aligned with SFDA requirements and ISO standards.

SFDA · GSO 1025

Bottled drinking-water limits

ISO 22000 · ISO/IEC 17025

Food safety and lab competence

330 mL to 5 gallons

Every size and pack

The whole journey of the water – recorded and costed

Whichever well it comes from and whichever line treats it, VLUERP links every stage to the next – and each step posts its own accounting entry automatically.



Quality you can prove

Every reading and every test is kept with its limit and its instrument – and nothing out of limit leaves the plant.



Real cost per bottle

Packaging, water per m³ and conversion cost are charged to every run, together with the water yield.



Jugs and deposits under control

A jug balance and a deposit for every customer, with refunds that can never exceed what was paid.



Van sales without a gap

Load, sell, return and count the cash in one trip – the differences show up automatically.

40

quality parameters loaded

9

treatment steps

5

supported ISO standards

100%

automatic entries

Quality first – before any bottle is sold

The treatment line with its critical control points, and a laboratory that judges every sample against the bottled-water limits.



Treatment & CCPs

- The full line: intake, sand filter, carbon, micron filters, reverse osmosis, remineralisation, ozone, UV, product tank.
- A limit for every reading, how often it is taken, and the corrective action required.
- Critical control points per the HACCP plan and clause 8.5.4 of ISO 22000.
- Any reading out of limit opens a **nonconformity** automatically and shows on the plant dashboard.



Quality laboratory

- Samples from every point: raw water, after RO, tank, finished product and swabs.
- Routine tests are added to every release sample, and the system judges each result.
- A failure keeps the batch **on hold** and opens a nonconformity – critical for microbiology.
- Every result is tied to its instrument; out-of-calibration instruments are flagged (ISO/IEC 17025).



The lab decides what the vans can carry

In the demo plant, 30 days of runs bottled **507,645 litres** at a water yield of **72.0%** – the rest left as RO reject. **97.5%** of lab tests passed; the batch that failed is still **on hold**, and a held batch is never loaded onto a van.

Instrument calibration

A calibration register for every lab instrument, with a warning 30 days before it falls due.

Label vs measured

Measured minerals are compared with the values printed on the label, within your tolerance.

Nonconformities

Every failed reading or test raises an ISO 22000 nonconformity with its corrective action.

Every size, every run – held until released

Define your packs once, run production by pack size, and let the laboratory release each batch before it can be sold.



Production runs

- Packs, rejects, raw water m³, RO reject and hours give the water yield, reject rate and line efficiency.
- Posting consumes preforms, caps, labels and shrink through the valuation engine.
- Packs come in as one batch with its expiry date – **blocked until released**.



Net content & release

- Net content checked by OIML R87 average-quantity sampling (SASO/GSO prepackage rules).
- Release needs a passed release sample, no failed sample and a passing net-content check.
- A rejected batch can be written off in one step, with its entry.

Quality limits register – examples

Group	Examples	Limit
Physical	Total dissolved solids TDS	100 - 500 mg/L
Physical	pH	6.5 - 8.5
Treatment by-products	Bromate (from ozone)	≤ 10 µg/L
Nitrogen compounds	Nitrate · nitrite	≤ 50 · ≤ 0.2 mg/L
Microbiology	Coliforms, E. coli, Pseudomonas, clostridia	Absent in 250 mL
Label data	Calcium, magnesium, sodium, bicarbonate, fluoride	Declared on the pack

Limits loaded from GSO 1025 with SFDA's published TDS and pH values. The register is editable: your quality manager keeps it on the latest approved edition.

Every screen in the module – and what is on it

Read off the running application – the panels, columns and figures that are actually there.

11 **81**
screens functions

01 Dashboard

Litres bottled Water yield %
Lab pass rate Runs on hold
Route sales Cash variance
Jugs at customers Deposits held
Calibration due

02 Treatment

Intake Sand filter Carbon
Reverse osmosis Ozone UV
Product tank Readings per shift
CCP out of limit → NCR

03 Laboratory

Sample point
Routine tests pre-filled Result
Pass / fail Instrument used
Label minerals vs measured
NCR on failure

04 Production

Pack size Packs Rejects
Raw water m³ Water yield %
Line efficiency Batch & expiry
Hold / release Net content check
Cost per pack

05 Pack sizes

330 mL x 40 600 mL x 30
1.5 L x 6 5-gallon returnable
Preforms, caps, labels
Label declaration Shelf life

06 Jugs

Jugs at customer Deposit held
Issue Return Refund
Opening balance

07 Routes

Driver Vehicle Van stock
Customers
Standing order by weekday
Load buffer % Plan trip

08 Van trips

Load Sales VAT 15%
Cash / credit Jugs out / in
Unsold back Cash counted
Short / over

09 Limits

Group Parameter Unit
Min Max
Source (GSO 1025 / SFDA)
Routine test

10 Instruments

Instrument Serial
Last calibration Next due
Due in 30 days Overdue flag

11 Settings

Water cost per m³
Conversion cost per pack
Mineral tolerance % Jug deposit
Accounts

Not a separate program – a complete business system

The trade module sits on top of a complete ERP: everything it does lands directly in the accounts, the stores and the reports – no double entry.



Accounting

Editable chart of accounts, automatic entries from every transaction, VAT and financial statements.



Financial dimensions

Cost centres, departments, business lines and sites – with statements per factory.



Inventory

Warehouses and bins, batches and serials, moving average, FIFO or standard cost.



Purchasing & sales

RFQs, purchase orders and receipts, quotations, invoices and ageing.



Maintenance & assets

Equipment register, preventive maintenance, work orders and depreciation.



Access & language

Roles and rights per module, audit trail, full Arabic and English interface.

Standards and regulations supported

ISO 22000

Food safety – CCPs and nonconformities

ISO/IEC 17025

Laboratory competence and calibration

GSO 1025

Bottled and packaged drinking water

OIML R87

Net content of prepackages

ISO 9001

Quality management

Audits, clause coverage and corrective actions for these standards run in the Conformity module, linked to the nonconformities the plant raises.

See a water plant **running now**

We run a complete demo company: weeks of operation, 41 production runs, a laboratory, two delivery routes and jugs at customers.

Request a demo

Website

www.vluerp.com

Demo request

www.vluerp.com/#demo

Email

hello@vluerp.com

1 Plant dashboard: production, water yield, lab tests and runs awaiting release.

2 Laboratory: open the failed sample and see the nonconformity it raised.

3 Today's run: on hold – enter the test results and release it yourself.

4 Van trips: daily settlement with VAT, deposits and the cash difference.

Switched on from Add-ons with a free seven-day trial, and it runs on the same general ledger.