

Agri-Business – AI ERP TicketingOS

East African Agri-Business · Black Lion Coffee

Crop/harvest tracking · Warehouse management · Export documentation · Quality control

Key ERP Requirements (Agri)

- **Crop/harvest tracking** – Field mapping, yield recording, harvest batch creation
- **Warehouse management** – Grain/coffee storage, silo temperature, moisture monitoring
- **Export documentation** – Phytosanitary, certificate of origin, bill of lading, customs integration
- **Quality control** – Moisture %, mould test, grading (coffee: AA, AB, etc.)

Agri Execution Flow (Farm to Export)

ID	Process	Activity	Progress %
2001	Farm Planning	Crop cycle schedule, input planning	5
2002	Planting & Growing	IoT soil sensors, weather alerts	15
2003	Harvest	Batch creation, field yield recording	30

ID	Process	Activity	Progress %
2004	Primary Processing	Cleaning, drying, hulling (coffee)	45
2005	Quality Control	Moisture, grading, cupping (coffee)	55
2006	Warehouse Storage	Silo/bin assignment, temp/moisture monitoring	65
2007	Export Order	Sales contract, LC processing	70
2008	Documentation	Phytosanitary, COO, Bill of Lading	80
2009	Dispatch & Shipping	Container loading, seal number, shipping line booking	90
2010	Customs & Payment	Export declaration, forex settlement	100



Payment & Export Documentation Milestones

Milestone	Release Condition	Payment %
Contract signed	Sales contract + LC confirmation	20% advance
Harvest & processing done	QC certificate (moisture, grade)	30%
Goods loaded & BL issued	Bill of Lading draft	40%
Arrival at destination port	Proof of delivery + customs release	10%



AI Automation for Agri-Business

Yield prediction AI –

Satellite + weather data → forecast harvest volume per field

Warehouse climate

AI – IoT sensors + predictive alerts to prevent spoilage

Export docs auto-generation –

OCR + blockchain for phytosanitary and COO

Traceability QR –

Consumer scans coffee bag → shows farm, harvest date, roast profile



ERP Modules

Farm management (crop cycles)

Harvest & yield tracking

Quality control lab

Warehouse (silo/bin)

Export documentation

Trade finance (LC, forex)