

Logistics & Distribution – AI ERP TicketingOS

East African Trading House · National Transport

Fleet management · Route optimisation · Consignment tracking · Freight billing

Key ERP Requirements (Logistics)

- **Fleet management** – Vehicle maintenance, fuel tracking, driver assignment, GPS integration
- **Route optimisation** – Dynamic routing based on traffic, load, delivery windows
- **Consignment tracking** – Real-time tracking from pickup to delivery, POD mobile app
- **Freight billing** – Rate calculation (per km, per kg, per trip), client invoicing, driver settlement

Logistics Execution Flow (Order to Cash)

ID	Process	Activity	Progress %
3001	Booking / Order	Customer request for freight (LTL/FTL)	5
3002	Route Planning	AI optimised route, vehicle allocation	15
3003	Vehicle & Driver Assignment	Check availability, maintenance status	25

ID	Process	Activity	Progress %
3004	Pickup	Goods scanned, consignment note created	40
3005	In-transit Tracking	GPS + telematics, ETA updates to customer	55
3006	Delivery & POD	Digital signature, photo proof	70
3007	Freight Billing	Auto calculate charges, generate invoice	85
3008	Payment & Settlement	Customer payment, driver/payroll settlement	100

Freight Billing & Payment Milestones

Milestone	Condition	Payment %
Contract rate confirmed	Rate card agreed (per km / per ton)	—
Pickup completed	Goods scanned, e-way bill generated	30% advance (for long-haul)
Delivery & POD	Customer signs digital POD	70% balance
Driver settlement	Trip completed, fuel receipt verified	100% driver payout within 7 days

AI Automation for Logistics

Dynamic route optimisation –

Real-time traffic + weather + vehicle GPS → reduces empty runs

Predictive maintenance –

Engine telematics → alerts before breakdown, schedules service

Consignment tracking portal –

Customer self-service with live map, ETA, driver contact

Automated freight billing –

Distance calculated from route → invoice generated instantly after POD

 **ERP Modules**

Fleet management (vehicles, drivers, maintenance)

Route optimisation (AI/ML)

Consignment & POD mobile app

Freight billing & settlement

Customer portal & tracking

Fuel & expense management

