

ODOO ERP

MANUFACTURING + STOCKYARD

Integrated ERP functional design across Inventory, Purchase, Manufacturing, Sales, Dispatch, Accounting & Reporting

ROLE	SCOPE	INDUSTRY	OUTCOME
Senior Odoo Functional Consultant	ERP analysis, design & implementation planning	Manufacturing / Industrial Stockyard	One connected ERP from purchase to finance

THE BUSINESS CHALLENGE

The client required one integrated ERP to connect purchase → inventory → production/stockyard → sales → dispatch → accounting → reporting → customer visibility. The central challenge was accurate stock control across a complex physical stockyard while reducing manual work and improving operational and financial visibility.

STOCKYARD Product + attribute + rack/bin visibility	PROCUREMENT Structured RFQ → PO → GRN flow
OPERATIONS Manufacturing + dispatch control	FINANCE Integrated billing, GST & reconciliation

THE ODOO BLUEPRINT

01 Inventory & Stockyard Rack/bin locations, attributes, FIFO reservation, replenishment, valuation.	02 Purchase Vendor pricelists, RFQs, POs, GRN, documents and reporting.
03 Manufacturing BOMs, operations, work centres, MOs, work orders and OEE.	04 Sales Quotations, proforma, approvals, credit control and reporting.
05 Dispatch Vehicle assignment, status, documents, scheduling and e-way bill.	06 Accounting Invoicing, bills, GST, TDS/TCS, bank reconciliation and P&L.;

01 / STOCKYARD & INVENTORY

The inventory design went beyond quantity-on-hand. The requirement was to know what material was available, its attributes and its exact physical stockyard location.

- Product attributes: size, thickness, brand, colour, warranty and future attributes.
- Rack/bin structures with product + attribute + location visibility.
- GRN, delivery orders and internal rack movements.
- FIFO-based reservation and replenishment rules.
- Stock valuation, ageing, turnover, movement history and slow/non-moving analysis.

02 / PURCHASE & PROCUREMENT

Procurement was designed as a connected process rather than an isolated purchasing activity.

- Vendor pricelist-driven RFQ generation.
- Reordering/replenishment-based purchasing.
- Vendor selection and purchase approvals.
- GRN capture with vehicle, transporter and supporting documents.
- Automatic stockyard location update after inward.
- Vendor ledger, outstanding and purchase analysis.

03 / MANUFACTURING

Manufacturing was linked to inventory and requirements through BOMs, operations and work centres.

- Machine/work-centre onboarding.
- Approved BOMs and operation definitions.
- Requirement-driven or manual manufacturing orders.
- Work orders by machine, operation and product.
- Production analysis, work-order reporting and OEE.

04 / SALES, DISPATCH & LOGISTICS

Sales: Quotation → Approval → Sales Order → Delivery → Invoice → Payment

- Branded quotations and proforma invoices.
- Automated pricing.
- Approval thresholds and approval history.
- Customer credit limits and ageing.

Dispatch: Delivery Order → Vehicle Assignment → Loading → Dispatch → In Transit → Delivered

- Vehicle and transporter assignment.
- Expected delivery date and delivery status.
- Invoice, bilty, test certificate and acknowledgement attachments.
- Colour-coded pending / in-transit / delivered dashboard.
- Late vs on-time delivery monitoring.
- E-way bill support.

05 / ACCOUNTING & COMPLIANCE

INVOICING Delivered-quantity based	VENDOR BILLS Received-quantity / GRN based
TAX GST + TDS/TCS	BANKING Matching & reconciliation
PROFIT P&L; + profitability	EXPORT Tally-compatible data

06 / MANAGEMENT VISIBILITY

Management reporting was designed around decision-making questions rather than departmental spreadsheets.

SALES Today / month / year	STOCK Valuation + turnover	COLLECTIONS Pending + ageing	DISPATCH Current status	PROFIT P&L; + margin	CUSTOMERS Top customers
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07 / DIGITAL DOCUMENT MANAGEMENT

Transaction-linked digital records were designed to replace fragmented paper and file handling.

- Invoices, bills, GRNs, e-way bills, quality certificates and delivery documents.
- Upload documents during transaction processing.
- Searchable digital repository.
- Role-based document access.

08 / CUSTOMER PORTAL

A customer-facing layer was designed to reduce routine requests for invoices, payment status and delivery information.

- Outstanding/payment summary
- Previous orders and invoices
- Invoice downloads
- Dispatch tracking
- Transaction history
- Secure OTP login

09 / SCALABILITY & INTEGRATION

The design considered large datasets, bulk operations and future integrations, including fast loading, bulk import/export and API-ready architecture.

FUNCTIONAL CONSULTING VALUE

The project focused on translating a physical manufacturing and stockyard operation into controlled ERP workflows and deciding what should be standard Odoo, configured, customized or integrated externally.

BUSINESS REQUIREMENT → PROCESS DESIGN → ODOO MAPPING → GAP ANALYSIS → CUSTOMIZATION / INTEGRATION → UAT

BEFORE → TARGET OPERATING MODEL

Fragmented processes	One connected ERP workflow
Limited stockyard visibility	Product + attribute + rack visibility
Manual documentation	Digital transaction-linked documents
Department-dependent reporting	Management dashboards
Disconnected operational & financial data	Integrated accounting flow
Limited dispatch visibility	Status-driven dispatch dashboard