Master Data & Documents

- Customer master with fields for GST, credit terms, and default price list.[1]

- Item master for finished parts, semi-finished parts, raw materials, and bought-out items, including material grade, density, and standard weight.[2][1]

- Attachments (drawings, inspection reports, external documents) on Customer, Item, Purchase Order, BOM, Work Order, Project, and Sales Invoice via standard attachment feature.[3][1]

- Warehouses for: raw material, WIP, finished goods, subcontractor, scrap.[4][1]

Purchase Order & Drawing Management

- Purchase Order entry with: customer PO number, PO date, delivery date, and line items.[1]

- Custom fields (no code) on PO for:

  o Drawing number(s).

  o Revision number.

  o Job / project reference.

- Attach drawing PDF or CAD file directly to PO.[3][1]

- PO print template including drawing number and revision (configured in print settings, no scripting needed).[1]

BOM, Operations & Costing Basis

- BOM for each finished part including:

  o Raw material items and quantities.

  o Bought-out items.

  o Operations (VMC machining, drilling, tapping, inspection, packing, etc.).

- Operation master with:

  o Workstation (VMC, manual, inspection).

  o Costing method (per hour or per quantity).

  o Standard rate (₹/hour or ₹/piece).[2][1]

- Attach process sheets, inspection standards, and sample reports on BOM and operations via attachments.[1]
- Separate items for in-house processes vs subcontracted processes where needed.[4][1]

Raw Material Management

- Raw material items with:

    - Material grade (e.g., EN8, EN19) as attribute or custom field.

    - Density and section (round bar, plate, etc.) as attributes.

    - Standard buying UOM (kg) and stock UOM.[2][1]

- BOM quantity representing theoretical weight per part (kg) so cost auto-calculates from rate list.[1]

- Purchase Receipt and Material Issue / Transfer between warehouses (RM → WIP → Finished → Dispatch).[1]

- Standard stock reports: stock ledger, stock balance, stock aging for raw material tracking.[2]

Process Tracking – In-house

- Work Order generated from Sales Order or Project for each job or batch.[1]

- Routing / operations sequence on Work Order (VMC roughing → finishing → inspection → packing).[1]

- Time capture using:

    - Timesheets (operator logs hours per operation), or

    - Start/finish time entry on Work Order operations.

- System-calculated in-house process cost using operation rate × actual time or quantity.[2][1]

- Status tracking: Draft → In Progress → Completed → Closed for each operation and work order.[2]

Process Tracking – Outsourced (Subcontracting)

- Subcontracted operation modeled as:

    - Subcontracted item, or

    - Subcontracting step in BOM / routing.[4][1]

- Subcontractor warehouse for materials sent out.[4]

- Transfer of components (stock transfer) from own warehouse to subcontractor warehouse with Delivery Challan.[4][1]

- Purchase Order to subcontractor for processing charges (per part or per kg).[4][1]

- Purchase Receipt to record processed items back from subcontractor and book service cost to job.[4][1]

Quotation & Cost Sheet

- Quotation linked to:

  - Customer.

  - Item and quantity.

  - BOM for automatic cost pull.[1]

- Automatic cost calculation based on:

  - Raw material (from BOM and rate list).

  - In-house operation cost (from routing and operation rate).

  - Outsourced process cost (from subcontracting cost).[2][1]

- Custom fields on quotation for:

  - Overhead percentage.

  - Target profit margin percentage.

- Automatic selling price computed as: estimated cost × (1 + overhead %) × (1 + margin %) via built-in price and margin fields (no custom code).[5][1]

- Print format for cost sheet showing raw material, in-house process, outsourced process, overhead, margin, and final rate.[1]

Dispatch, Invoicing & Profit View

- Delivery Note for dispatch with:

  - Job / Project reference.

  - Drawing number and revision (pulled from PO or item custom fields).

  - Packing list details (weight, package count).[1]

- Sales Invoice from Delivery Note with:

- o Customer PO number.

- o Project / job reference.

- Standard Gross Profit report on Sales Invoice to see selling price vs cost of goods.[2][1]

- Custom reports/filters (via report builder, no code) to show:

  - o Invoice-wise profit and loss (selling vs actual cost).

  - o Customer-wise margin.

Project-wise Costing & P&L

- Project document for each major order or group of jobs.[1]

- Link all related documents to Project:

  - o Sales Order, Work Orders, Purchase Orders, Purchase Invoices, Timesheets, Stock Entries, Delivery Notes, Sales Invoices.[6][1]

- Timesheet entry against Project for:

  - o Design time (CAD/CAM).

  - o Programming time for VMC.

- Expense booking (transport, packaging, travel, tooling) with Project tag so it hits project cost.[6][1]

- Project profitability report and filterable Profit & Loss report by Project (no code; use built-in project filter).[7][6]

Bought-out Items

- Separate item type for bought-out components (bearings, fasteners, standard parts).[1]

- Purchase cycle for bought-out items: Supplier Quotation → Purchase Order → Purchase Receipt → Purchase Invoice.[1]

- Inclusion of bought-out item cost in BOM so it flows to quotation and job costing.[2][1]

User Roles & Basic Controls

- Roles: Management, Design/Programming, Purchase, Stores, Production, Accounts, Quality.[1]

- Role-based permissions configured via standard role/permission manager:

  - o Purchase can create PO but not approve.

- Stores can do receipts and stock moves.

- Production can update Work Orders and operations.

- Accounts can post invoices and payments.

- Simple approval workflows for Purchase Orders, Quotations, and Sales Invoices using built-in workflow configuration (no scripting).