

# Coffee Management System

The Complete ERP Solution for the Coffee Supply Chain

# A Specialized Workflow for a Specialized Industry

# **Dynamic Product Creation**

Automatically creates new, distinctly graded product variants based on quality control results. This ensures your inventory is always tracked by its true, evaluated grade, not a generic name.

### **Direct Manufacturing Control**

Confirming a sales contract instantly creates both the Delivery Order and the corresponding Manufacturing Order, giving you explicit, manual control over

your production pipeline and bypassing complex automation rules.

### **Specialized Procurement**

A unique multi-step process for handling coffee arrivals, from quality to weight to final stock reception, capturing far more detail than the standard purchase workflow.

# **Intelligent Component Checking**

Before confirming a Manufacturing Order, the system automatically checks for component availability and creates a warning activity for planners if there are shortages, preventing production delays.

### **Granular Data Classification**

Leverage custom models for Coffee Type, Origin, ECX Grade, Zones, and Woredas to build a highly structured, filterable, and accurate database of your coffee products.

# **Full ERP Integration**

Seamlessly integrated with Odoo's core Inventory, Manufacturing, and Accounting applications, ensuring all operations are fully traceable and auditable.

### **Unique Business Workflows**

### Inbound: From Arrival to Graded Stock

- Coffee Arrival: The process begins when a delivery arrives. A user creates an Arrival record, capturing supplier, vehicle, and initial coffee details from preconfigured ECX classifications.
- **Quality Evaluation:** An expert performs a detailed quality assessment. Upon saving, the system calculates a final AMG Grade.
- **Dynamic Product Assignment:** The system automatically searches for a product matching the Origin, Type, and final AMG Grade. If one doesn't exist, a new product is created on the fly and linked to the arrival.
- 4 Weight Recording: The precise weight of the batch is recorded and logged for auditing.
- **Stock Receiving:** A Goods Receiving Note (GRN) is created. Confirming the GRN creates and validates an Odoo inventory transfer, moving the specific, newly-graded product into a warehouse location.

### **Outbound: From Contract to Production**

- 1 Create Coffee Contract: A user creates a sales contract, adding finished goods to the contract lines.
- 2 Confirm Contract: A single click on "Confirm" executes a powerful custom logic.
- **Automated Creation:** The system instantly creates a Delivery Order and, for each relevant product line, manually creates a Manufacturing Order, linking them all back to the source contract for full traceability.

4 Check Availability: If raw material components are unavailable, the Manufacturing Order is created in "Draft" and an activity is scheduled to alert planners, preventing production holds.

### **Advanced Reporting Suite**

The module includes a comprehensive reporting suite to provide insights into every corner of your coffee operations.

### **Wizard-based PDF Reports**

A custom wizard allows users to generate detailed, professional PDF reports for a selected date range. These are perfect for formal documentation, meetings, and audits.

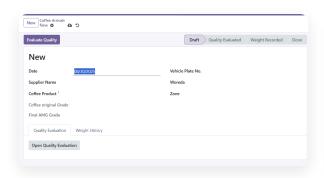
- Arrival & Quality Report: Summarizes all incoming batches with their final quality scores and grades.
- Warehouse Stock Report: A stock movement report showing beginning balance, receipts, issues, and ending balance for coffee products.
- Contract Fulfillment Report: Tracks the progress and financial value of all
  confirmed sales contracts.
- Manufacturing Report: Provides an overview of all production orders, their status, and their link to sales contracts.

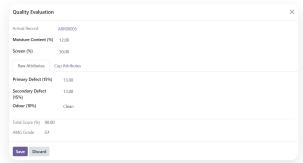
### **Analytical Dashboards**

A dedicated "Analytics & Reports" menu provides pivot tables and graph views for real-time analysis, allowing you to slice and dice your data interactively.

- Analyze arrivals by supplier, grade, or date.
- View quality evaluation scores across different origins.
- Track contract fulfillment and value by customer.

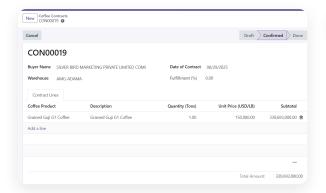
### **Screenshots**





**Detailed Coffee Arrival Form** 

**In-depth Quality Evaluation** 



Reporting Dashboard

Powerful Analytics and Reporting

**Streamlined Coffee Contract** 

### **Setup & Configuration**

To ensure seamless operation, a one-time configuration of your master data is required.

- Install Dependencies: From the manifest, ensure `stock`, `mrp`, `purchase`, `sale`, `product`, `contacts`, `account`, and `mail` apps are installed.
- Configure Classifications: Navigate to Coffee Management > Configuration and populate your master data for `Coffee Types`, `Coffee Origins`, `ECX Coffee Grades`, `Zones`, and `Woredas`.
- 3. **Define ECX Products:** In Configuration > ECX Coffee Products, create the base combinations of Origin, Type, and Grade. These are used as templates for the dynamic product creation during the arrival process.
- 4. **Configure Finished Goods & BoMs:** For any coffee product you intend to manufacture (e.g., "Roasted Guji G1 Coffee"), you must manually create it as a Storable Product and define a Bill of Materials (BoM) for it.

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