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

1. **Coffee Arrival:** The process begins when a delivery arrives. A user creates an Arrival record, capturing supplier, vehicle, and initial coffee details from pre-configured ECX classifications.
2. **Quality Evaluation:** An expert performs a detailed quality assessment. Upon saving, the system calculates a final AMG Grade.
3. **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.
5. **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.
3. **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.

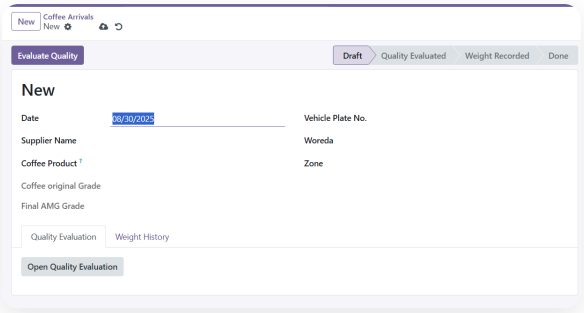
- **Arrival & Quality Report:** Summarizes all incoming batches with their final quality scores and grades.
- **Warehouse Stock Report:** A stock movement report showing beginning balance, receipts, issues, and ending balance for coffee products.
- **Contract Fulfillment Report:** Tracks the progress 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

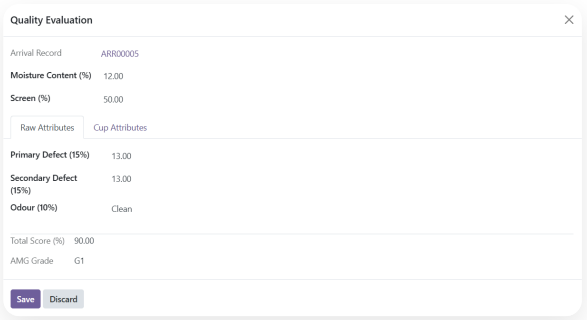
A dedicated "Analytics & Reports" menu provides pivot tables and graph views for real-time analysis, allowing you to slice and dice your data interactively.

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

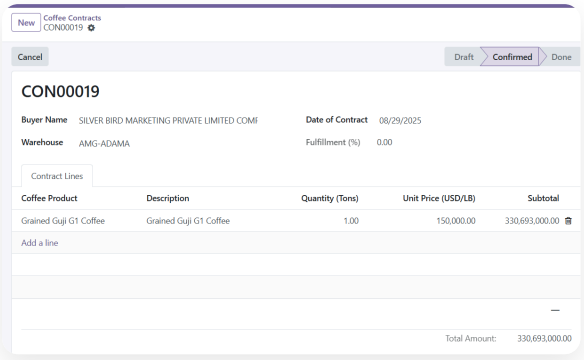
Screenshots



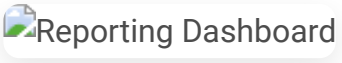
Detailed Coffee Arrival Form



In-depth Quality Evaluation



Streamlined Coffee Contract



Powerful Analytics and Reporting

Setup & Configuration

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

1. **Install Dependencies:** From the manifest, ensure `stock`, `mrp`, `purchase`, `sale`, `product`, `contacts`, `account`, and `mail` apps are installed.
2. **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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