

Group 7 Data Science Class 2

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Production Flowchart Report: PT SI DO MUNCUL

1. Process Flow Explanation

The production process follows a structured sequence to ensure quality and efficiency. Below is a step-by-step breakdown of each activity:

Step 1: Initiation

- **Receive Request:** A production order is received from the relevant department.
- **Plan Production:** The team reviews the request and prepares a production plan.

Step 2: Material Preparation

- **Check Inventory:** The system verifies if raw materials (e.g., honey, mint leaves, cinnamon) are available in stock.
 - **If Available:** Proceeds directly to production.
 - **If Not Available:**
 - **Send Purchase Requisition:** A request is made to procure the required materials.
 - **Buy Raw Materials:** Purchasing team acquires the materials from suppliers.
 - **Receive Raw Materials:** Materials are delivered and logged into the system.

Step 3: Quality Check for Raw Materials

- **Inspect Raw Materials:**
 - **Pass:** Materials meet standards and are sent to production.
 - **Fail:** Materials are rejected or returned to the supplier.

Step 4: Production Phase

- **Produce Goods:** Manufacturing begins using approved raw materials.
- **Oversee Production:** Supervisors monitor the process to ensure compliance with procedures.

Step 5: Quality Control for Finished Products

- **Test Finished Products:**
 - **Organoleptic Checks:** Color, odor, and taste are evaluated.
 - **Lab Tests:** Acidity, sugar content, viscosity, and disintegration time are measured.
 - **Safety Tests:** Screens for microbes, aflatoxins, and heavy metals.
 - **Infrastructure Audit:** Ensures equipment and facilities meet hygiene standards.
- **Pass:** Products are approved for delivery.
- **Fail:** Products are rejected or sent for rework.

Step 6: Final Steps

- **Send to Inventory:** Approved products are stored or prepared for distribution.
- **Generate Reports:** Documentation is completed for records and analysis.
- **End Process:** The production cycle concludes.

You can access the code here:

https://github.com/Richeaa/ais_project