**Purchasing Module**

**Customer Creation Process**  
**Customizations:**

* Set up customer groups specific to mill buyers (e.g., wholesalers, retailers) and configure item categories to show only relevant rice products for each customer group.
* Add conditional logic to the Customer Doctype to display fields like credit limit and payment terms based on the customer type.

**Raw Material Purchase Process**  
**Configuration Changes:**

* Create a unique naming series for purchase orders to differentiate between different supplier categories (e.g., raw material suppliers or equipment suppliers).  
  **Customizations:**
* Add a "Rice Type" filter in the purchase order form to limit raw material selection to relevant items such as paddy or packaging materials.

**Raw Material Availability Check**  
**Customizations:**

* Add a "Check Stock Availability" button to verify if required materials like paddy or packaging items are available in warehouses, displaying details such as required quantity, actual stock, and availability status.

**Selling Module**

**Order Management Process**  
**Configuration Changes:**

* Configure item templates for different rice variants (e.g., basmati, non-basmati) and packaging sizes (e.g., 25kg, 50kg).  
  **Customizations:**
* Restrict item selection in sales orders to only rice and packaging variants relevant to the customer's order.

**Profit Margin Calculation in Sales Order**  
**Customizations:**

* Add a profit margin field where users can set the desired profit percentage. Automatically calculate the selling price based on the input margin and cost price.

**Customer Invoice and Payment Tracking**  
**Customizations:**

* Include a feature to auto-generate invoices based on sales orders and track payment status (e.g., paid, partially paid, unpaid).

**Production Planning Module**

**Rice Milling Process Management**  
**Customizations:**

* Add a button to automatically generate production orders based on incoming sales orders, specifying details like rice type, quantity, and milling schedule.

**Production Workflow Optimization**  
**Customizations:**

* Implement a simple production tracking feature with status updates like "Not Started," "In Progress," and "Completed."

**Material Availability Check for Milling**  
**Customizations:**

* Add a button in the production order form to check the availability of paddy stock and packaging materials in the assigned warehouse.

**Inventory and Stock Management Module**

**Warehouse Management**  
**Customizations:**

* Set up warehouses for different purposes, such as raw material storage, finished goods storage, and rejected stock storage, ensuring clear separation.

**Stock Monitoring**  
**Configuration Changes:**

* Enable stock alerts for critical items like paddy, rice bags, or packaging materials, notifying the user when stock falls below a minimum threshold.

**Stock Ledger Automation**  
**Customizations:**

* Automate ledger entries for stock movements, such as paddy milling, rice bagging, or sales dispatch, to minimize manual errors.

**Reporting and Analytics Module**

**Sales and Production Reports**  
**Customizations:**

* Generate detailed reports on sales performance and production efficiency (e.g., milling output, wastage analysis).

**Inventory Analysis**  
**Customizations:**

* Create inventory reports that highlight stock levels, turnover rates, and storage durations for rice and packaging materials.

**Non-Functional Requirements:**  
The system should be flexible to accommodate future customizations as per the mill's evolving operational needs.