

# **Rice Mill ERP Website - Detailed Page Structure**

## **1. AUTHENTICATION & ACCESS CONTROL**

### **1.1 Login Page (/login)**

**Purpose:** User authentication and role-based access control

**Components:**

- Username/Email input field
- Password input field with show/hide toggle
- "Remember Me" checkbox
- "Forgot Password" link
- Login button
- Company logo and branding
- Language selection dropdown
- System status indicator

**User Flow:**

- Enter credentials → Role validation → Redirect to appropriate dashboard

### **1.2 Forgot Password Page (/forgot-password)**

**Components:**

- Email input field
- Reset instructions
- Back to login link
- Security question option

### **1.3 Role-Based Dashboard Redirect**

**Admin** → Full Dashboard Access

**Manager** → Production & Financial Overview

**Operator** → Production & Quality Control

**Accounts** → Financial & Compliance Reports

## 2. MAIN DASHBOARD

### 2.1 Executive Dashboard (/dashboard)

**Access:** Admin, Manager

**Key Widgets:**

- **Production KPIs**
  - Daily rice production (MT)
  - Yield percentage (Rice/Paddy ratio)
  - Byproduct generation (Bran, Husk)
  - Equipment utilization rate
- **Financial Overview**
  - Daily revenue breakdown
  - Transportation cost comparison chart
  - Processing charge collections
  - Byproduct sales revenue
- **Procurement Status**
  - Active DOs count
  - Pending paddy collection (MT)
  - Government agreement compliance %
  - Supplier payment status
- **Operational Alerts**
  - Equipment maintenance due
  - Quality failures
  - Stock level warnings
  - Payment delays
- **Quick Actions Panel**
  - Create new DO
  - Schedule transportation
  - Generate reports
  - Quality test entry

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## 2.2 Operational Dashboard (/dashboard/operations)

**Access:** Operator

**Focus Areas:**

- Production line status
- Quality control checkpoints
- Equipment monitoring
- Daily production targets

## 3. PADDY AGREEMENT MANAGEMENT

### 3.1 Agreement Overview (/agreements)

**Components:**

- **Agreement List Table**
  - Agreement ID and date
  - Total quantity allocated
  - DOs count
  - Completion status
  - MSP rate
  - Validity period
- **Filters & Search**
  - Date range picker
  - Status filter (Active/Completed/Expired)
  - Agreement type filter
  - Search by ID/location
- **Actions**
  - View agreement details
  - Download agreement copy
  - Sync with government portal
  - Mark as completed

### 3.2 Agreement Details Page (/agreements/{id})

**Components:**

- **Agreement Information**
  - Government reference number

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- Agreement date and validity
- Total paddy quantity
- MSP rate details
- Terms and conditions
- **DO Breakdown Table**
  - DO number and date
  - Pickup location with map
  - Paddy variety
  - Quantity allocated vs collected
  - Collection deadline
  - Status indicator
- **Progress Tracking**
  - Overall completion percentage
  - Timeline view of collections
  - Remaining quantity breakdown
  - Compliance status

### **3.3 Government Portal Sync (/agreements/sync)**

#### **Components:**

- Last sync timestamp
- Sync status indicators
- Manual sync trigger
- Error log display
- Data validation results

## **4. DO (DELIVERY ORDER) MANAGEMENT**

### **4.1 DO Registry (/do-management)**

#### **Components:**

- **DO List Table**
  - DO number and date
  - Pickup location
  - Paddy type and grade
  - Quantity (allocated/collected)

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- Collection status
- Assigned truck/transporter
- Collection deadline
- **Advanced Filters**
  - Location-based filter
  - Status filter (Pending/In Transit/Collected/Completed)
  - Date range filter
  - Paddy variety filter
  - Transporter filter
- **Bulk Actions**
  - Assign multiple DOs to truck
  - Generate collection routes
  - Export DO list
  - Print collection receipts

### **4.2 DO Details Page (/do-management/{do-id})**

#### **Components:**

- **DO Information Card**
  - DO number and QR code
  - Issue date and validity
  - Pickup location with GPS coordinates
  - Contact person details
  - Paddy specifications (variety, grade, moisture)
- **Collection Tracking**
  - Truck assignment details
  - Driver information
  - Route planning
  - Real-time GPS tracking
  - Collection timeline
- **Documentation**
  - Collection receipt upload
  - Quality test reports
  - Weight verification documents
  - Photo evidence

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## 4.3 DO Trading Platform (/do-trading)

### Components:

- **Trading Dashboard**
  - Available DOs for trading
  - Market price trends
  - Trading opportunities
  - Recent transactions
- **Trading Interface**
  - DO selection panel
  - Price negotiation tools
  - Buyer/seller profiles
  - Transaction history
  - Profit calculation

## 5. TRANSPORTATION MANAGEMENT

### 5.1 Transportation Dashboard (/transportation)

### Components:

- **Fleet Overview**
  - Own trucks status
  - Available third-party transporters
  - Active trips count
  - Fuel consumption summary
- **Cost Analysis Widget**
  - Own truck vs third-party cost comparison
  - Per-trip cost breakdown
  - Monthly transportation expenses
  - ROI analysis charts
- **Route Optimization**
  - Route planning interface
  - Traffic and weather integration
  - Fuel efficiency tracking
  - Delivery time optimization

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## 5.2 Fleet Management (/transportation/fleet)

### Components:

- **Own Trucks Registry**
  - Vehicle details (model, year, capacity)
  - Registration and insurance info
  - Maintenance schedule
  - Driver assignment
  - Current location/status
- **Maintenance Tracking**
  - Service history
  - Upcoming maintenance alerts
  - Repair cost tracking
  - Downtime analysis

## 5.3 Trip Management (/transportation/trips)

### Components:

- **Trip Planning Interface**
  - DO selection for trip
  - Route optimization
  - Driver assignment
  - Fuel estimation
  - Time planning
- **Trip Tracking**
  - Real-time GPS tracking
  - Delivery status updates
  - Fuel consumption monitoring
  - Driver performance tracking

## 5.4 Cost Analysis (/transportation/analytics)

### Components:

- **Detailed Cost Breakdown**
  - Fuel costs per trip/km
  - Driver wages and overtime
  - Vehicle maintenance costs

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- Insurance and registration
- Third-party transporter charges
- **Profit Analysis**
  - Cost per quintal transportation
  - Profit margin by route
  - Seasonal cost variations
  - Break-even analysis

## 6. PRODUCTION MANAGEMENT

### 6.1 Production Dashboard (/production)

#### Components:

- **Production Line Status**
  - Current production rate
  - Equipment status indicators
  - Quality metrics
  - Target vs actual production
- **Process Flow Monitoring**
  - Paddy intake stage
  - Cleaning and sorting
  - Hulling process
  - Polishing stage
  - Grading and packaging

### 6.2 Production Scheduling (/production/schedule)

#### Components:

- **Production Calendar**
  - Daily production plans
  - Paddy allocation schedule
  - Equipment maintenance slots
  - Quality testing schedule
- **Capacity Planning**
  - Available paddy inventory
  - Machine capacity utilization



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- Labor shift planning
- Output forecasting

### **6.3 Yield Tracking (/production/yield)**

#### **Components:**

- **Yield Analysis Dashboard**
  - Rice yield percentage
  - Bran extraction rate
  - Husk generation
  - Broken rice percentage
  - Quality grade distribution
- **Historical Comparisons**
  - Yield trends over time
  - Seasonal variations
  - Paddy variety performance
  - Process optimization insights

### **6.4 Quality Control (/production/quality)**

#### **Components:**

- **Quality Testing Interface**
  - Moisture content testing
  - Grain size analysis
  - Color grading
  - Foreign matter detection
  - Broken grain percentage
- **Quality Reports**
  - Daily quality summary
  - Batch-wise quality tracking
  - Non-conformance reports
  - Customer complaints tracking

## 7. INVENTORY MANAGEMENT

### 7.1 Inventory Dashboard (/inventory)

#### Components:

- **Stock Overview**
  - Raw paddy inventory by variety
  - Finished rice inventory by grade
  - Byproduct stock (bran, husk)
  - Total stock value
- **Stock Movement Tracking**
  - Recent transactions
  - Stock in/out summary
  - Inventory turnover ratios
  - Stock aging analysis

### 7.2 Raw Material Inventory (/inventory/raw-materials)

#### Components:

- **Paddy Inventory Table**
  - Variety and grade
  - Quantity in stock
  - Location/warehouse
  - Purchase date and batch
  - Quality parameters
  - Supplier information
- **Stock Management Actions**
  - Stock adjustment entries
  - Transfer between locations
  - Quality re-grading
  - Damage/wastage recording

### 7.3 Finished Goods Inventory (/inventory/finished-goods)

#### Components:

- **Rice Inventory Tracking**
  - Rice variety and grade

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- Packaging details
- Production batch tracking
- Storage location
- Sale allocation
- **Packaging Management**
  - Bag inventory tracking
  - Packaging material stock
  - Label and marking supplies
  - Packaging cost tracking

### **7.4 Byproducts Inventory (/inventory/byproducts)**

#### **Components:**

- **Byproduct Stock Management**
  - Bran inventory by quality
  - Husk stock levels
  - Broken rice inventory
  - Market price tracking
  - Buyer information

## **8. SALES MANAGEMENT**

### **8.1 Sales Dashboard (/sales)**

#### **Components:**

- **Sales Overview**
  - Daily/monthly sales summary
  - Government vs private sales
  - Revenue breakdown by product
  - Outstanding receivables
- **Processing Charge Tracking**
  - Government processing rates
  - Volume processed for government
  - Processing charge collections
  - Pending payments

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## 8.2 Government Sales (/sales/government)

### Components:

- **Government Orders Interface**
  - Processing orders from government
  - Delivery schedule management
  - Quality compliance tracking
  - Payment status monitoring
- **Processing Charge Calculation**
  - Automatic rate calculation
  - Volume-based pricing
  - Service charge breakdown
  - Invoice generation

## 8.3 Byproduct Sales (/sales/byproducts)

### Components:

- **Broker Management**
  - Broker profile and contact info
  - Credit terms and payment history
  - Product preferences
  - Price negotiations
- **Sales Order Management**
  - Order creation and tracking
  - Delivery scheduling
  - Quality specifications
  - Payment terms

## 8.4 Invoice Management (/sales/invoices)

### Components:

- **Invoice Generation**
  - Automated invoice creation
  - GST calculation
  - Multiple payment terms
  - Electronic invoice dispatch
- **Payment Tracking**

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- Outstanding invoice monitoring
- Payment reminder system
- Receipt reconciliation
- Customer aging analysis

## 9. FINANCIAL MANAGEMENT

### 9.1 Financial Dashboard (/finance)

#### Components:

- **Financial Overview**
  - Daily cash flow
  - Monthly P&L summary
  - Outstanding receivables/payables
  - Bank balance summary
- **Key Financial Metrics**
  - Gross profit margins
  - Transportation cost ratios
  - Processing margins
  - Working capital analysis

### 9.2 Accounts Receivable (/finance/receivables)

#### Components:

- **Customer Outstanding**
  - Government payment status
  - Broker payment tracking
  - Aging analysis
  - Credit limit monitoring
- **Collection Management**
  - Payment reminder system
  - Collection call scheduling
  - Payment plan tracking
  - Bad debt provisions

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## 9.3 Accounts Payable (/finance/payables)

### Components:

- **Supplier Payments**
  - Farmer payment tracking
  - Transporter payment status
  - Utility and overhead payments
  - Payment approval workflow
- **Cash Flow Management**
  - Payment scheduling
  - Cash flow forecasting
  - Bank reconciliation
  - Working capital optimization

## 9.4 Cost Accounting (/finance/cost-accounting)

### Components:

- **Cost Center Analysis**
  - Production cost tracking
  - Transportation cost allocation
  - Overhead cost distribution
  - Profit center reporting
- **Profitability Analysis**
  - Product-wise profitability
  - Customer profitability
  - Transportation method ROI
  - Seasonal profit analysis

## 10. REPORTING & ANALYTICS

### 10.1 Report Center (/reports)

### Components:

- **Pre-built Reports**
  - Daily production report
  - Financial summary report
  - Compliance reports

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- Operational efficiency reports
- **Custom Report Builder**
  - Drag-and-drop interface
  - Data source selection
  - Filter and grouping options
  - Chart and table formatting

## 10.2 Analytics Dashboard (/analytics)

### Components:

- **Business Intelligence**
  - Trend analysis charts
  - Predictive analytics
  - Benchmark comparisons
  - Performance indicators
- **Operational Analytics**
  - Production efficiency trends
  - Quality performance metrics
  - Transportation optimization insights
  - Inventory optimization recommendations

## 11. ADMINISTRATION

### 11.1 User Management (/admin/users)

#### Components:

- **User Registry**
  - User profile management
  - Role assignment
  - Permission management
  - Active session monitoring
- **Access Control**
  - Role-based permissions
  - Feature access control
  - Data access restrictions
  - Audit trail tracking

## 11.2 System Settings (/admin/settings)

### Components:

- **General Settings**
  - Company information
  - System preferences
  - Notification settings
  - Integration configurations
- **Master Data Management**
  - Paddy varieties
  - Quality parameters
  - Location master
  - Rate master

## 11.3 Audit & Compliance (/admin/audit)

### Components:

- **Audit Trail**
  - User activity logs
  - Data modification tracking
  - System access logs
  - Error and exception logs
- **Compliance Monitoring**
  - Regulatory compliance status
  - Document management
  - Approval workflows
  - Risk assessment tracking

## NAVIGATION STRUCTURE

### Primary Navigation Menu

1. **Dashboard** (Role-based landing page)
2. **Paddy Agreements** → Agreements, DOs, Sync
3. **Transportation** → Fleet, Trips, Cost Analysis
4. **Production** → Dashboard, Schedule, Quality, Yield
5. **Inventory** → Overview, Raw Materials, Finished Goods, Byproducts



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- 6. **Sales** → Dashboard, Government Sales, Byproduct Sales, Invoices
- 7. **Finance** → Dashboard, Receivables, Payables, Cost Accounting
- 8. **Reports** → Report Center, Analytics, Custom Reports
- 9. **Administration** → Users, Settings, Audit (Admin only)

Secondary Navigation (Breadcrumbs)

- Shows current page location within module hierarchy
- Allows quick navigation to parent pages
- Context-sensitive based on user's current location

Mobile Navigation

- Collapsible hamburger menu
- Touch-optimized interface
- Essential features accessible in mobile view
- Responsive design for tablet and smartphone access

USER ROLE ACCESS MATRIX

Page/Feature	Admin	Manager	Operator	Accounts
Dashboard (Full)	✓	✓	-	-
Dashboard (Operational)	✓	✓	✓	-
Dashboard (Financial)	✓	✓	-	✓
Paddy Agreements	✓	✓	View Only	-
DO Management	✓	✓	✓	-
Transportation	✓	✓	View Only	View Only
Production	✓	✓	✓	-
Inventory	✓	✓	✓	View Only
Sales	✓	✓	-	✓
Finance	✓	✓	-	✓
Reports	✓	✓	Limited	✓
Administration	✓	-	-	-

This comprehensive page structure ensures that all aspects of the rice mill operation are covered, from government paddy procurement to final sales and financial management, with appropriate role-based access controls and user-friendly navigation.