# Technical Documentation: Purchase Manager Dashboard KPIs

This document outlines the key performance indicators (KPIs) displayed on the Purchase Manager dashboard in a make-to-order manufacturing ERP system. The dashboard layout is designed with a mix of concise KPI cards and detailed charts. Each KPI includes a definition, visual format used on the dashboard, calculation logic, and a sample example.

## 📋 KPI Cards

### PO vs GRN Avg Gap

Definition: Average number of days between issuing a PO and receiving goods (GRN).

Visual Representation: KPI Card (Number with month-to-date value).

Calculation Logic / Example:

Gap = GRN Date - PO Date  
Example: Avg Gap this month = 4.2 Days

### Pending Purchase Requisitions (PRs)

Definition: Number of PRs that haven't been converted to POs yet.

Visual Representation: KPI Card (Total open count).

Calculation Logic / Example:

Count of PRs where PO is NULL or not yet approved  
Example: 28 PRs are pending

### Supplier On-Time Delivery %

Definition: Percentage of deliveries received on or before committed delivery dates.

Visual Representation: KPI Card (Percentage with trend arrow).

Calculation Logic / Example:

Rate = (On-time Deliveries / Total Deliveries) × 100  
Example: 85% on-time this month

### Stock Coverage Warnings

Definition: Count of critical items whose stock will not last 5 days at current consumption rate.

Visual Representation: KPI Card (Count of items below threshold).

Calculation Logic / Example:

Coverage = Current Stock / Avg Daily Consumption  
Example: 7 items below 5 days

## 📊 Chart-based KPIs

### Vendor Delay %

Definition: Percentage of vendors with at least one delayed delivery in current month.

Visual Representation: Donut Chart or Horizontal Bar (Top 5 vendors or grouped category).

Calculation Logic / Example:

Delay % = (Vendors with Delayed GRNs / Total Active Vendors) × 100  
Example: 12 of 40 vendors = 30%

### PR to PO Conversion Time

Definition: Average time it takes to convert a PR into a PO.

Visual Representation: Line Chart (Weekly or monthly average days).

Calculation Logic / Example:

Avg Time = PO Approval Date - PR Creation Date  
Example: Avg = 3.5 Days

### Average Purchase Order Value

Definition: Shows average monetary value of POs issued.

Visual Representation: Bar Chart (By month or department).

Calculation Logic / Example:

Avg PO Value = Total PO Amount / No. of POs  
Example: ₹120,000 / 6 POs = ₹20,000

### Lead Time Tracking

Definition: Compare actual vs expected delivery time for key items.

Visual Representation: Gauge or Bullet Chart (Highlighting delays).

Calculation Logic / Example:

Lead Time = GRN Date - PO Date; Compare with Expected  
Example: Actual 10d vs Expected 7d = 3d delay

### Supplier Scorecard (Top 3 Vendors)

Definition: A composite score reflecting vendor performance in delivery, quality, and cost.

Visual Representation: Radar Chart (Top 3 vendors only).

Calculation Logic / Example:

Score = (On-Time% × 0.4) + (Quality × 0.4) + (Price Efficiency × 0.2)  
Example: Vendor A = 92