

# Finished Goods Production Floor to Warehouse Process Flow (As-Is)

## Document Control

| Version | Date       | Author          | Changes                     |
|---------|------------|-----------------|-----------------------------|
| 1.0     | 2026-02-15 | Operations Team | Initial as-is documentation |

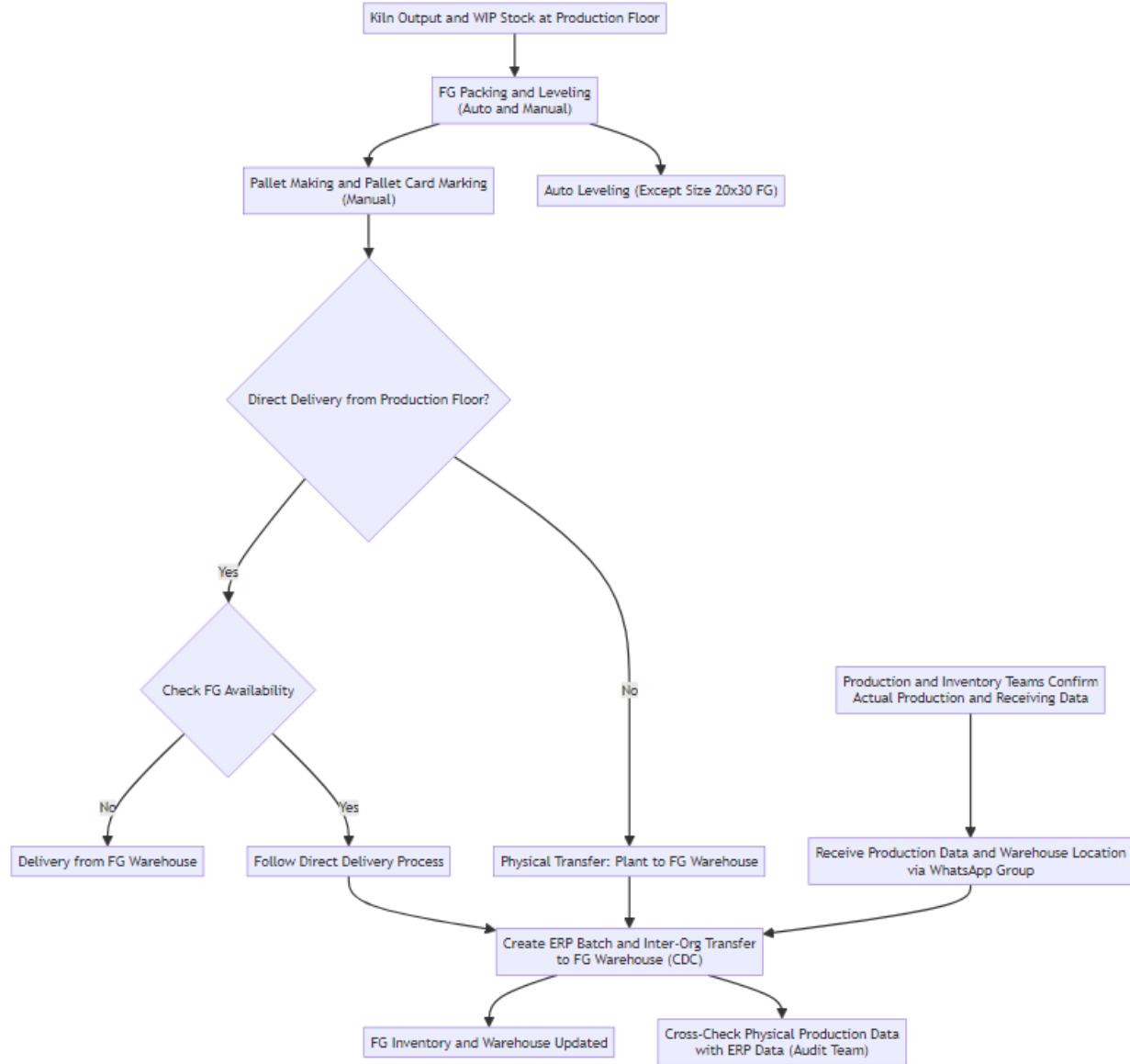
## 1. Executive Summary

This document outlines the current (as-is) operational process for finished goods (FG) moving from the production floor to the warehouse at the manufacturing facility.

**Key Terms:** - **FG:** Finished Goods - **ERP:** Enterprise Resource Planning (SAP/Oracle) - **CDC:** Central Distribution Center - **WIP:** Work in Progress - **QA:** Quality Assurance - **GRN:** Goods Receipt Note

## 2. Process Overview

### 2.1 Current State Flowchart



## 3. Key Stakeholders

| Role                  | Department           |
|-----------------------|----------------------|
| Production Supervisor | Production           |
| Quality Inspector     | QA                   |
| Inventory Controller  | Inventory Management |
| Warehouse Lead        | Warehouse            |
| Auditor               | Audit Team           |

## 4. Current Process Pain Points

| Issue                                  | Impact                          |
|--|---------------------------------|
| Manual pallet card marking             | Data entry errors, misplacement |
| WhatsApp communication                 | Delayed updates, no audit trail |
| No real-time visibility                | Production delays               |
| Size 20x30 exception                   | Manual handling required        |
| Batch creation after physical movement | System update lag               |
| Manual audit cross-check               | Delayed discrepancy detection   |

## 5. Key Metrics

| KPI                    | Current | Target  |
|------------------------|---------|---------|
| Inventory Accuracy     | 92%     | 99%     |
| Transfer Lead Time     | 5 hours | 3 hours |
| System Update Lag      | 4 hours | 1 hour  |
| Documentation Accuracy | 87%     | 98%     |

## 6. Process Automation Roadmap

### 6.1 Automation Overview

To address current pain points, the following automation initiatives are planned to streamline the FG transfer process, reduce manual errors, and enable real-time visibility.

### 6.2 Automation Solutions

| Pain Point                    | Automation Solution                     | How It Works   | Benefit   |
|-------------------------------|---|--|---|
| Manual pallet card marking    | Barcode scanning at source              | Print GS1-128 barcodes at packing station; scan at pallet creation to auto-validate against ERP                      | Eliminate manual writing, real-time data capture, prevent mislabeling |
| WhatsApp communication delays | WhatsApp Business API + ERP integration | Automated notifications triggered by ERP events: pallet ready, in transit, received, batch created                   | 70% reduction in follow-up delays, audit trail created                |
| No real-time visibility       | Mobile scanning throughout movement     | Scan pallet at load (status: in transit), scan at warehouse receipt (status: received at bin), auto-update inventory | Real-time track and trace, reduced transfer time                      |
| System update lag             | Trigger ERP batch creation from scans   | Pallet labeled → creates pending batch; pallet received → auto-completes inter-org transfer, updates inventory       | Real-time inventory, elimination of manual data entry                 |

| Pain Point               | Automation Solution               | How It Works  | Benefit   |
|--------------------------|-----------------------------------|---|---|
| Manual audit cross-check | Continuous validation with alerts | System compares physical scans with expected output instantly; flags discrepancies immediately; auto-generates end-of-shift reports | Instant discrepancy detection, reduced audit effort |

### 6.3 Technology Requirements

| Need                 | Low-Cost Option              | Enterprise Option         |
|----------------------|------------------------------|---------------------------|
| Barcode scanning     | Smartphone + scanning app    | Industrial scanners + WMS |
| Label printing       | Desktop label printers       | High-speed auto-labelers  |
| WhatsApp integration | Twilio + custom code         | ERP WhatsApp API module   |
| ERP/WMS              | Upgrade existing ERP modules | Full WMS implementation   |

### 6.4 Implementation Roadmap

### 6.5 Expected Results After Automation

| Metric                 | Current | Target After Automation |
|------------------------|---------|-------------------------|
| Inventory Accuracy     | 92%     | 99%+                    |
| Transfer Lead Time     | 5 hours | <2 hours                |
| System Update Lag      | 4 hours | Real-time               |
| Documentation Accuracy | 87%     | 98%+                    |
| Manual Data Entry      | 100%    | <10%                    |