

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

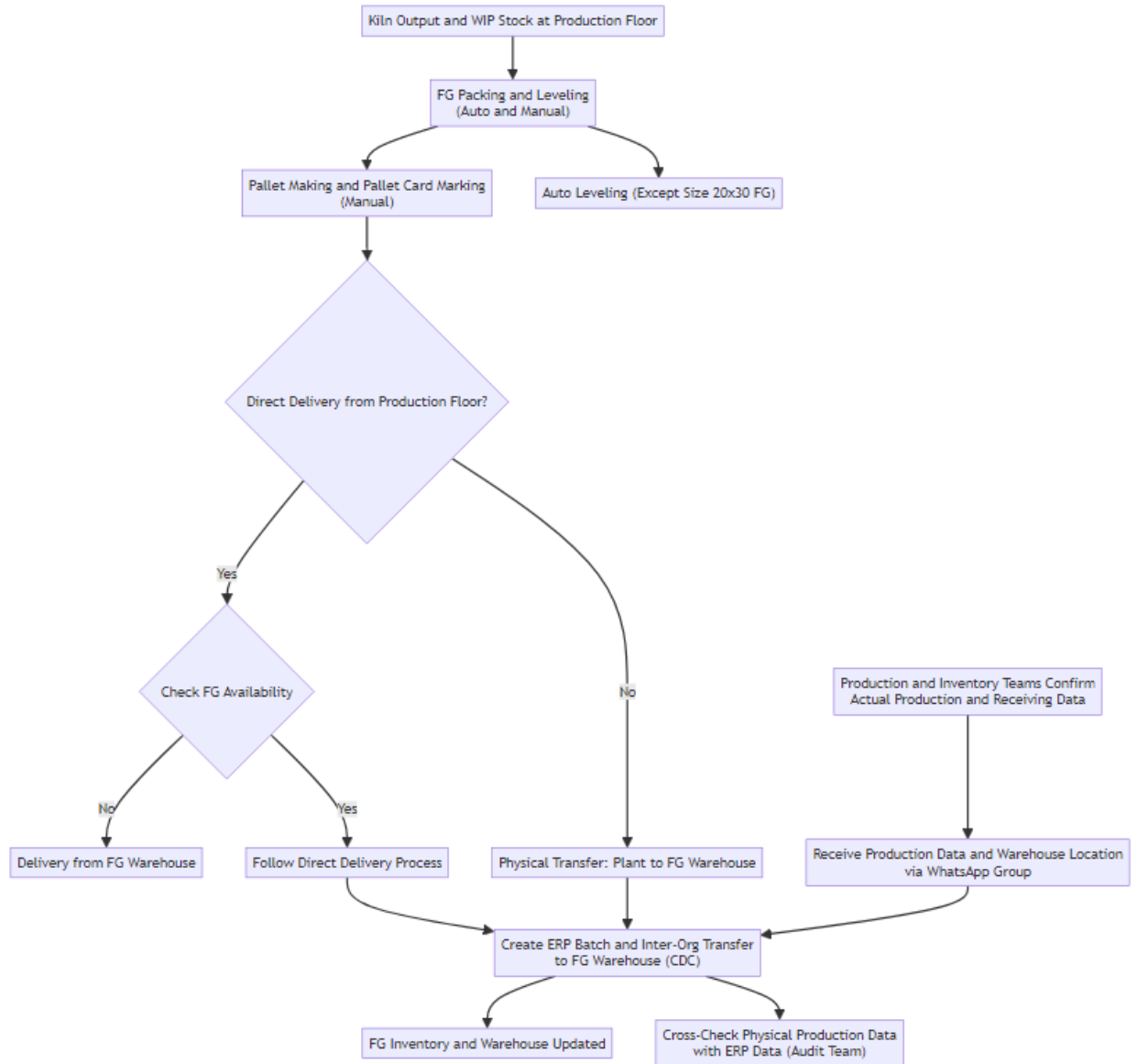
1. Executive Summary

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%