FilFlo × Anveshan — Product Requirements Document (PRD)

1. Document Control

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2. Executive Summary

Anveshan will sunset its in-house Inventory Management System (IMS) and adopt **FilFlo**, an Al-native Fulfilment OS, to unify inventory, production, order orchestration, logistics and finance across all channels. The phase-1 rollout targets an **aggressive 4-week window (7 June – 7 July 2025)**, with FilFlo running **in parallel** to the existing IMS to ensure zero disruption while we migrate core warehouse operations. Success is measured by ≥ 98 % inventory accuracy, 100 % order-fill, and a 30 % reduction in working capital tied up in FG stock.

3. Context & Background

- Current Pain Stock-outs, manual GRNs, spreadsheet fragmentation, ageing inventory and reconciliation delays lead to missed SLAs and cash-flow drag (see existing IMS PRD)
- FilFlo Advantage Single system of record with QR-based traceability, workflow automation and an agentic AI layer that predicts demand and auto-triggers actions (auto-PO, stock re-routing)

• **Deployment Goal** — Replace legacy IMS modules **one functional cluster at a time**, retaining Google-Sheets workflows where helpful, and layer predictive intelligence once the data foundation is stable.

4. Objectives & Success Metrics

Objective	KPI (Exit)	Baselin e	Target
Inventory accuracy	System vs physical ≥ 98 %	92 %	98 %
Order-fill rate	% lines shipped complete	85 %	100 %
Dispatch errors	Mis-picks / 1 000 lines	0	≤0
Working capital in FG	INR (Cr)	4.91	↓30 %
PO error rate	% POs amended	4 %	< 0.5 %
Al-recommendation adoption	% accepted	-	≥80 %

5. Stakeholders & User Personas

Persona	Goals	Key Tasks
Founder / CXO	Growth, cash efficiency	Dashboards, alerts, approvals
Finance	Accurate payables & ledgers	Vendor GRN, invoicing, reconciliation
Warehouse Ops	Fast, error-free moves	Scan-based inwards/outwards, QC, cycle-counts
Production Planner	Optimise batch runs	Auto-PO raw material, production WIP tracking
Dispatch / Logistics	SLA adherence	Pick-pack-ship, label print, courier API integration
Analyst / Growth	Demand insights	NLQ reports, cohort analysis

6. Transition Scope & Phasing

We split the **4-week Phase-1** into two waves while both systems run in unison:

Wave-A (1 – 14 Jun) — Dispatch & Inventory Go-Live

Dispatch workflows

Functionality	Status in FilFlo	Build Notes
B2B PO creation & approval	Existing – Storage > Procurement PO screens	Minor UI tweak to tag customer PO # Generate Amazon FNSKU and EAN code stickers via FilFlo
Case-packing & QR box labelling	To build	Extend Generate QR to case-level; auto pack-ID
Gatepass generation	To build	REST endpoint + printable PDF
B2C order ingestion (Amazon, Flipkart, Shopify, Cred, Smytten)	Existing via Unicommerce + native Shopify	New connectors for Cred & Smytten
$Scan \rightarrow pack \rightarrow manifest$ workflow	Existing – Picklist, Outward, Manifest APIs	Add bulk manifest export

Inventory workflows

Functionality	Status in FilFlo	Build Notes
Inward from production via PO	Existing – Production PO inward	_
Inward of 3rd-party goods	Existing – Storage > Inward Products	_
Location-wise put-away & bin mapping	To build	Introduce /storage/bin endpoints
Picklist generation (FIFO)	Existing – Create Picklist	_

Ageing analytics **Existing** – Stock Analysis Enhance heat-map widget

Outward scanning **Existing** – Outward

Products

Cycle count scheduling &

variance capture

To build New cycle-count module

Wave-B (15 – 30 Jun) — Inward, Storage, Quality

• Storage replenishment, QC (AQL sampling), lot-level traceability.

Begin RTO capture (inwards & disposition) by 24 Jun; close pending gaps by 30 Jun.

Deferred (Post-June)

Finance, Reporting (NLQ) and CRM ticketing modules will be activated once operational data is stabilised (ETA + 4 weeks).

7. Functional Requirements. Functional Requirements

7.1 Master Data

- FR-1: Admin can bulk-upload SKUs, materials and suppliers via CSV & UI form.
- FR-2: Versioned rate-cards with effective-date logic.
- **FR-3**: BOM import; Al validation of missing components.

7.2 Storage & Procurement

- FR-4: Raise Procurement PO from AI suggestion or manual.
- FR-5: QR-scan inward with QC status (pass/hold/reject).
- FR-6: Auto-update vendor payable ledger on GRN.

7.3 Production

- **FR-7**: Convert raw → WIP → FG; capture yield variance.
- FR-8: Trigger batch when FG dips below reorder-point.

7.4 Inventory & Dispatch

- **FR-9**: Generate pick-list by FIFO & channel priority.
- FR-10: Support combo/bundle SKUs; virtual inventory logic.
- FR-11: One-click dispatch label + manifest (Shiprocket, NimbusPost APIs).

7.5 Finance & Reporting

- FR-12: GST-ready invoicing; auto e-way bill.
- FR-13: NLQ: "Show ageing >90 days by warehouse".

7.6 Al Layer

- FR-14: Daily demand forecast @ SKU•warehouse level (MAPE <15 %).
- FR-15: Auto-generate PO suggestions with confidence score; require approval.

(Detailed user-stories & acceptance criteria in Appendix-A.)

8. Non-Functional Requirements

Category	Requirement
Performanc e	<300 ms p95 API; supports 50 concurrent scanners
Availability	≥99.5 % uptime SLA
Security	SOC-2 L1 controls; field-level RBAC
Compliance	GST, FSSAI traceability, ISO-22000 lot linkage

Scalability 10× SKU growth & multi-DC ready

UX Responsive (≥ 1280 px) + keyboard-optimized scanner

screens

9. Integration & Migration Plan

- Data Cut-over Export current IMS tables; transform → FilFlo schema; validate counts.
- 2. **Channel APIs** Shopify, Unicommerce, Zepto, ONDC.
- 3. Courier APIs Shiprocket, Dunzo, Bluedart.
- 4. **Finance** Tally prime export (CSV) Phase 1.
- 5. **Testing** Parallel run for 14 days in shadow-mode.

10. Roll-out Timeline (Phase-1, 4 Weeks)

Wee k	Dates	Milestones
0	1–3 Jun	Silent observation, data export, dual-run rehearsal
1	4–7 Jun	Master data migrated; Dispatch & Inventory sandbox live
2	8–14 Ju n	Wave-A go-live (Dispatch + Inventory) parallel run
3	15–23 J un	Wave-B go-live (Inward, Storage, Quality)
4	24–30 J un	RTO workflows live; cut-over sign-off; decommission legacy IMS Dispatch/Inventory screens

11. Risks & Mitigations. Risks & Mitigations

Risk	Likelihoo d	Impact	Mitigation
Data mismatch during cut-over	Med	High	3-cycle physical count, reconciliation script
Change-management fatigue	High	Med	Role-based training, sandbox mode
Courier API downtime	Low	High	Offline label buffer, retry queue

12. Glossary

- GRN Goods Receipt Note
- **FG** Finished Goods
- WIP Work in Progress
- **NLQ** Natural-Language Query

13. Appendices

A. Mapping: Old IMS \rightarrow FilFlo Modules

Legacy IMS Section	FilFlo Module	Notes
Storage Level, Procurement PO	Storage & Procurement	Same flow; QR replaces manual IDs
Production Level	Production	Adds yield analytics
Product Inventory Level	Inventory	Combos supported
Reports (Party ledger, Invoices)	Finance & Reporting	NLQ dashboards
Stock Analysis	Analytics	Real-time, Al insights

B. Reference Docs

- Existing IMS PRD (Anveshan) v1.2
- FilFlo product UI & folder structure
- FilFlo platform capability JSON

End of Document