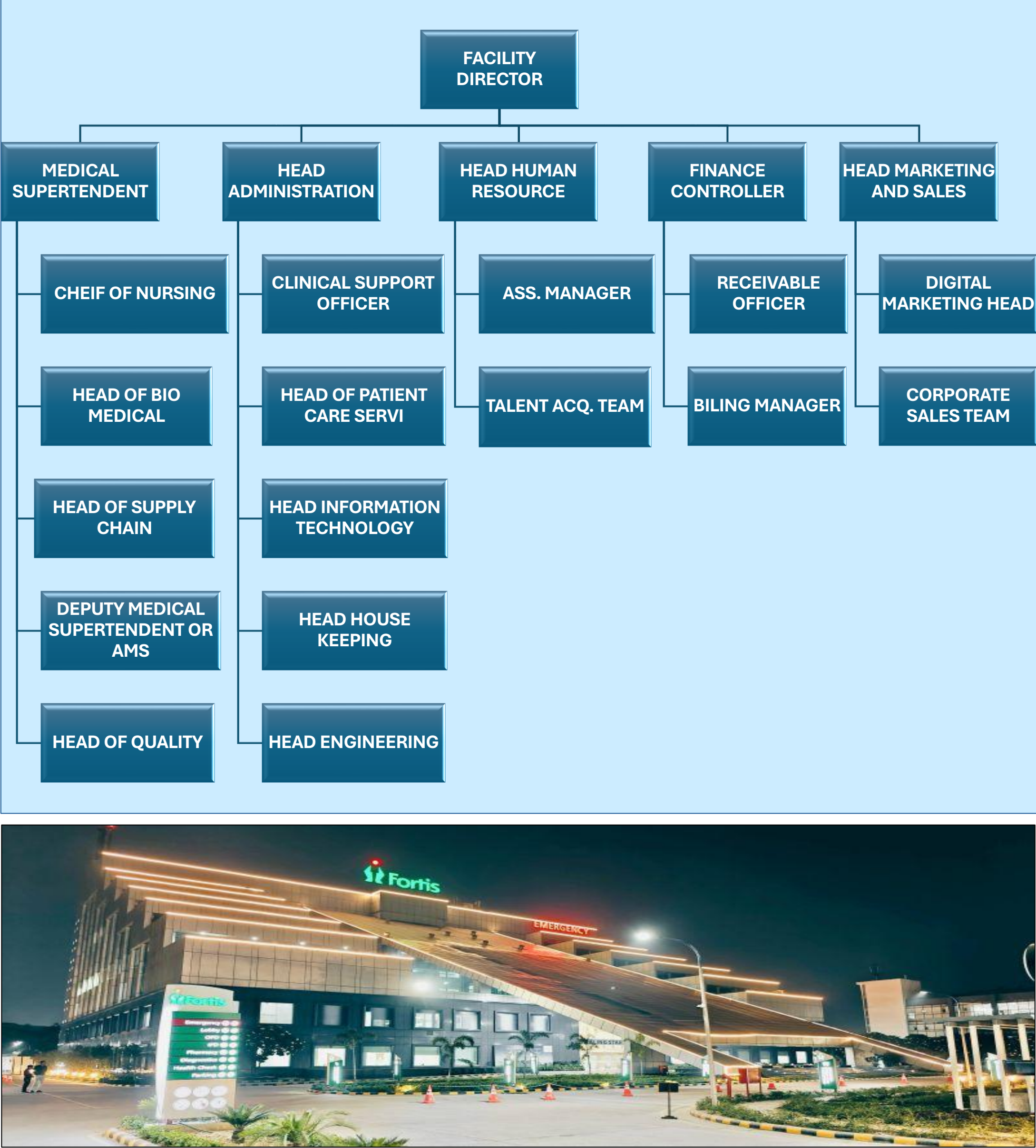


ABOUT ORGANIZATION

Established in 2024, **Fortis Hospital, Manesar** is a modern multi-specialty healthcare facility committed to delivering quality care with precision, empathy, and innovation. The hospital is quipped with 350 operational beds, including 95 advanced ICU beds, 9 OT, 2 cath labs, and dedicated units NICU, ICU, Dialysis centre. Additional patient-friendly amenities such as spacious lounges, private counselling rooms, in-house pharmacy, valet parking, and cafeteria.

Vision: To create a world-class integrated healthcare delivery system in India, combining medical excellence with compassionate care.
Mission: To be a globally respected healthcare organization, known for clinical excellence and distinctive patient experience.

ORGANIZATIONS STRUCTURE



SUPPLY CHAIN WORKFLOW IN HOSPITAL



THEORETICAL UNDERSTANDING & PRACTICAL EXPOSURE

- SCM seemed systematic and ideal on paper.
- Assumed hospital formulary is strictly followed.
- Inventory models like ABC, VED were studied independently.
- Dispensing process looked straightforward.
- Expected SOPs to be fully implemented.
- Faced challenges like delays, SOP non-adherence, and coordination issues.
- Doctors often prescribe outside the formulary, leading to stock mismatches.
- Real-world use is selective and data-dependent.
- Required double verification, stamping, and tracking of high-risk medicines.
- Many were partially followed due to staff shortage and low motivation.

SWOT ANALYSIS

- Strengths**
 - Well-structured procurement workflow integrating demand generation, PR, PO, GRN, and finance coordination.
 - Use of hospital information systems (HIS) for inventory visibility and GRN processing.
 - Coordination between IP Pharmacy and Purchase Department ensures patient-centric supply prioritization.
 - Strong vendor relationships and approval mechanisms support reliable sourcing.
- Weaknesses**
 - Doctors often prescribe brands not listed in the hospital formulary, creating procurement delays.
 - Challenges in physical compliance with FIFO/LIFO despite system entries.
 - Gaps in routine audits of Class B and C items.
 - Low adherence to SOPs due to staff resistance and limited motivation.
- Opportunities**
 - Strengthening implementation of ABC-VED-FSN analysis for better inventory decisions.
 - Enforcing formulary usage through awareness and policy reinforcement.
 - Staff training to enhance SOP adherence and TAT recording accuracy.
 - Developing a centralized digital dashboard for real-time inventory visibility and interdepartmental coordination.
- Threats**
 - Emergency demand spikes or delayed deliveries can disrupt the supply cycle.
 - Overdependence on limited vendors may affect pricing and availability.
 - Manual handling in some SCM stages increases the risk of errors.
 - Budget constraints or delayed payments impact vendor relationships.

LEARNING FROM INTERNSHIP

- Understood real-world pharmacy workflows.
- Hands-on with ABC-VED inventory control.
- Gained exposure to GRN, TAT monitoring, and compliance audits.

CHALLENGES FACED AS AN INTERN

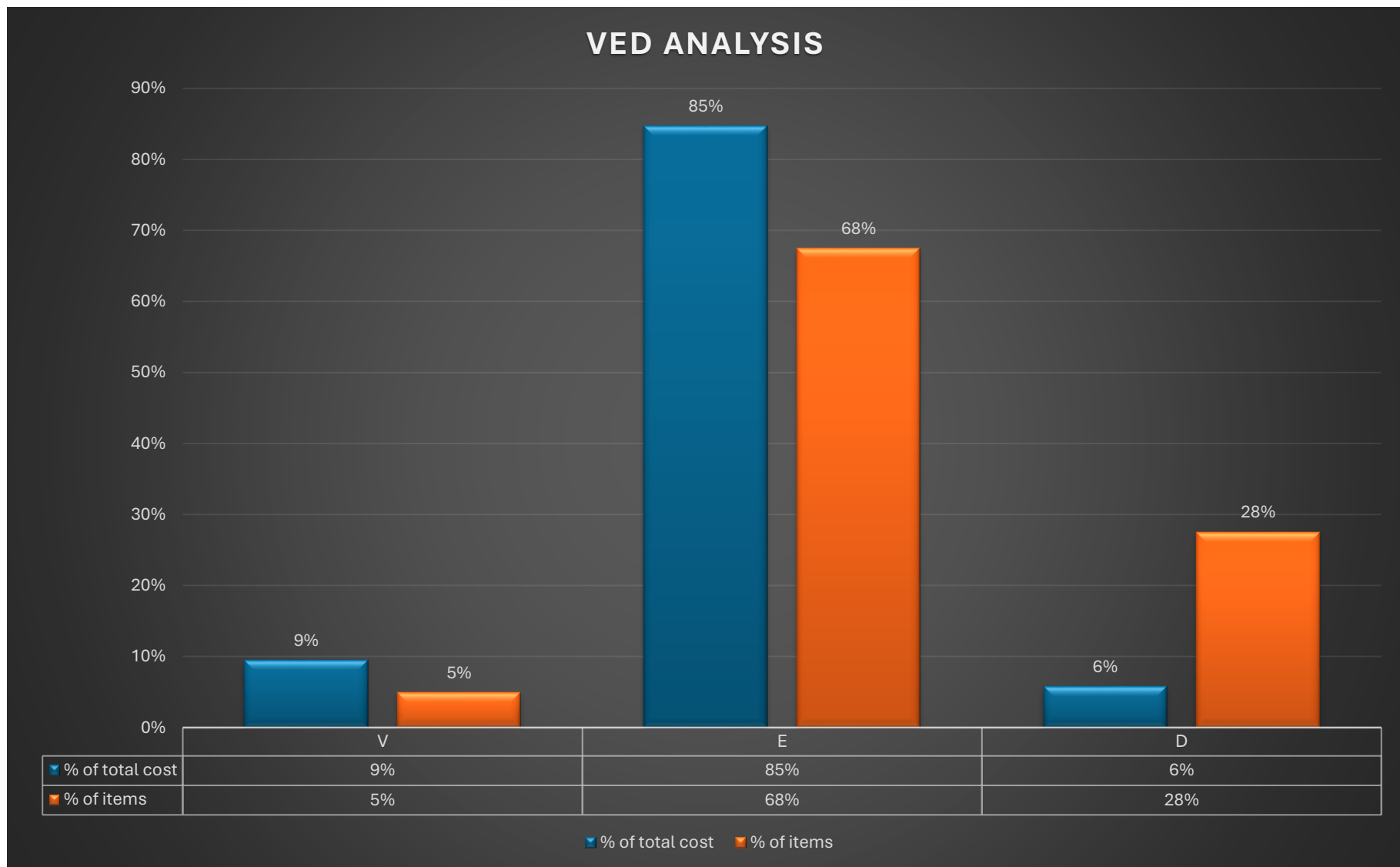
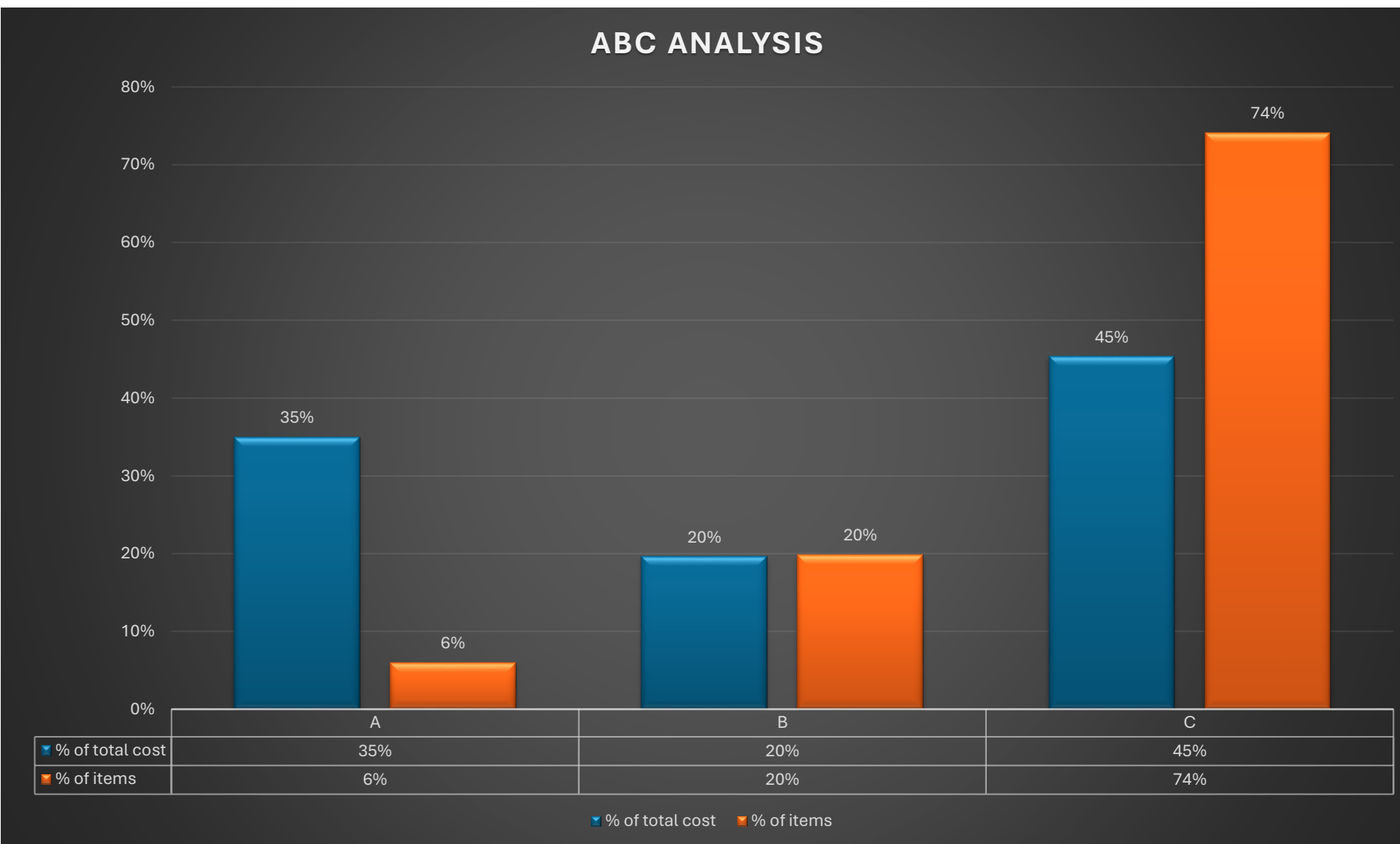
- Adapting to real-time pace and systems.
- Difficulty accessing decision-making processes.
- Gaps in SOP adherence and interdepartmental coordination.

Inventory Optimization through ABC-VED Matrix

This project focused on analyzing the inventory of IP Pharmacy at Fortis Hospital, Manesar using ABC, VED, and combined ABC-VED matrix to enhance inventory control, optimize stock levels, and ensure availability of critical items.

ABC/VED	VITAL (V)	ESSENTIAL (E)	DESIRABLE (D)	TOTAL
A	7	73	0	80
B	14	210	41	265
C	45	617	326	988
TOTAL	66	900	367	1333

category	item count	% of total items
I HIGH	94	7%
II MEDIUM	868	65%
III LOW	371	28%



Key Insights from ABC-VED Matrix Analysis

- Inventory Control Prioritization**
 - A-V (7 items) and A-E (73 items):** High-cost & high-criticality items. Require **real-time tracking**, strict control, and buffer stock policies.
- Optimization Opportunities**
 - C-E (617) and C-D (326) items** form the majority. Ideal for **bulk procurement**, cost-cutting strategies, and **rationalization** without clinical compromise.
- Category-Based Stock Management**
 - A-V, A-E:** Real-time inventory & buffer stock essential.
 - B-V, B-E:** Monitor monthly/biweekly.
 - C-V, C-E, C-D:** Basic buffer levels suffice.

- Procurement Strategy**
 - Focus on **strategic sourcing** for Class A items.
 - For Class C items: Consider **vendor consolidation** to cut overhead and improve logistics.
- Policy Recommendation**
 - Implement **tiered stock review** policies using ABC-VED matrix to ensure **cost-effectiveness** & **clinical safety**.



SUGGESTIONS

- Classify Inventory Based on ABC-VED Matrix** in the hospital ERP for smarter procurement and review cycles.
- Vendor Performance Review Mechanism** should be initiated for timely deliveries and better negotiation leverage.
- Train Department Staff** on raising accurate and timely PRs to streamline the demand-supply chain.

- Implement a Digital Hospital Formulary** to standardize prescriptions and reduce procurement delays due to non-listed brands.
- Introduce Barcode-Based Inventory System** to improve stock visibility and minimize manual errors.