

Executive Overview

Executive Overview

Demand Analysis

Inventory Optimization

Supplier & Manufacturing

Logistics & Transportation

Risk & Sustainability

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Provides a quick summary of overall business performance to support leadership decisions.

₹ 577.6K
Total Revenue

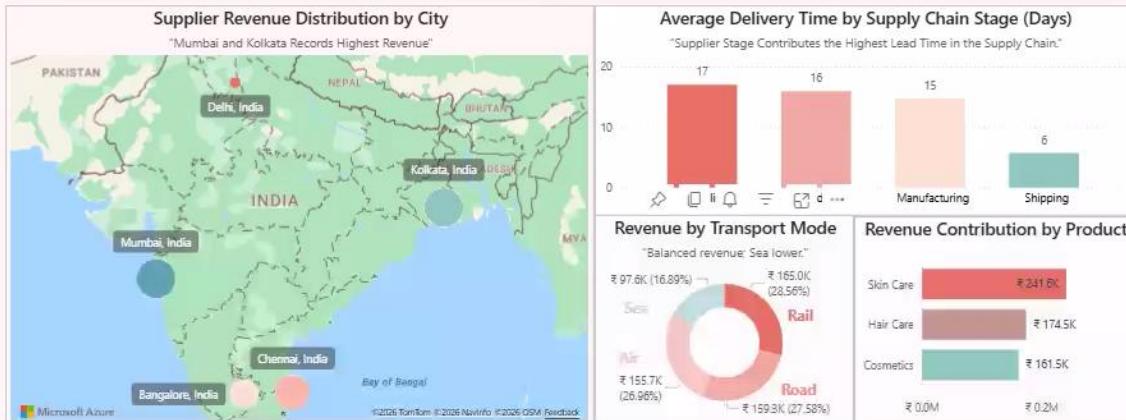
5K
Total Units Ordered

5
Active Suppliers

54
Avg Lead Time (Days)

₹ 47.27
Avg Manufacturing Cost

2.28%
Avg Defect Rate



Data Set : Supply_Chain_Data.csv | Prepared by Vani Chaitanya Data Analyst Intern

NOTE: All time dimensions available. | SKU - Stock Keeping Unit

Demand & Forecast Analysis

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5K
Total orders



1.64K
Avg Demand Per Product



49.22
Avg Units per SKU



Stock Availability and Demand Forecast by SKU

Demand exceeds inventory, requiring proactive replenishment.

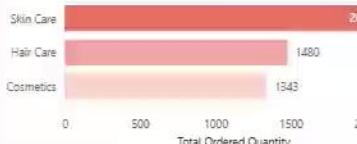


Top 10 High Demand SKUs

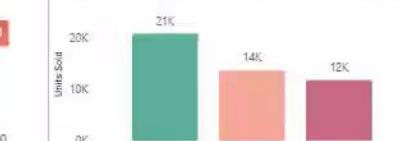
Demand Is Highest in the Skin Care Segment.

SKU	Cosmetics	Hair Care	Skin Care
SKU10			2.16%
SKU94	2.14%		
SKU9			2.13%
SKU36			2.09%
SKU37			2.09%
SKU11			2.08%
SKU78		2.05%	
SKU40			2.02%
SKU44	1.99%		
SKU91	1.99%	2.05%	12.57%
Total	6.12%	2.05%	

Total Ordered Quantity by Product Type



Demand Distribution by Product Category



Selected Low-Performing SKUs



Data Set : Supply_Chain_Data.csv | Prepared by Vani Chaitanya Data Analyst Intern

NOTE: No time dimension available. | Line chart used only for comparison. | Inventory ranking based on available stock is less than 20% of total demand for that SKU.

Inventory Optimization

This page evaluates stock health and risk exposure.

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5K

Total Active SKUs

9.65

SKU Turnover Ratio

1

Excess SKUs

89

Understocked SKUs

1

Out-of-Stock SKUs

Inventory by Product Type

Product Type	Stock Level
Hair Care	1644
Skin Care	1608
Cosmetics	1525

Inventory vs Demand by Product Type

Product Type	Stock Available	Expected
Skin Care	1608	2099
Hair Care	1480	1644
Cosmetics	1343	1525

Top 10 Stock-Out Risk SKUs

"High Stock-Out Risk Across Key SKUs. Need immediate Attention"

SKU	Inventory Level
SKU101	1
SKU102	1
SKU103	2
SKU104	4
SKU105	4
SKU106	4
SKU107	5
SKU108	5
SKU109	5
SKU110	5

Inventory Status Distribution

Status	Percentage
Low Stock	0.4K (8.0%)
Avg Stock	2.0K (42.1%)
Available	2.4K (49.9%)

SKU	Inventory Level	Inventory Status
SKU68	0	Out of Stock
SKU2	1	Low Stock
SKU34	1	Low Stock
SKU16	2	Low Stock
SKU24	4	Low Stock
SKU33	4	Low Stock
SKU47	4	Low Stock
SKU4	5	Low Stock
SKU57	5	Low Stock
SKU78	5	Low Stock
SKU8	5	Low Stock
SKU87	5	Low Stock
SKU31	6	Low Stock
SKU15	9	Low Stock
SKU18	10	Low Stock
SKU58	10	Low Stock
SKU70	10	Low Stock
SKU6	11	Low Stock
SKU67	12	Low Stock
SKU44	13	Low Stock
Total	4777	

-Supplier & Manufacturing Page

Supplier & Manufacturing Analysis

This page analyzes supplier performance, manufacturing cost, lead time, and quality to improve operational efficiency.

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₹ 4.73K Total Manufacturing Cost 14.77 Average Lead Time (Days) 57K Production (Units) 2.28% Average Defect Rate

Production Volume by Supplier

Supplier 2	14K
Supplier 1	14K
Supplier 4	12K
Supplier 5	9K
Supplier 3	3K

Average Manufacturing Lead Time (Days) by Supplier

Supplier 5	16
Supplier 2	16
Supplier 4	15
Supplier 3	15
Supplier 1	13

Total Manufacturing Cost by Supplier

Supplier 1	25.9%
Supplier 4	23.5%
Supplier 2	19.4%
Supplier 3	17.0%
Supplier 3	13.8%

Supplier Performance & Quality Assessment

"Supplier Quality Risk Identified Across Multiple Vendors."

Supplier Name	Manufacturing Cost	Defect Rate%	Quality Inspection Result
Supplier 4	₹ 811.15	31.40	Fail
Supplier 1	₹ 575.11	25.33	Pass
Supplier 5	₹ 381.30	12.76	Pending
Supplier 2	₹ 378.46	21.42	Pending
Supplier 3	₹ 368.44	25.55	Pending
Supplier 1	₹ 339.25	17.93	Pending
Supplier 4	₹ 317.63	10.67	Pending
Supplier 2	₹ 310.91	21.55	Fail
Supplier 1	₹ 307.50	5.44	Fail
Supplier 5	₹ 280.04	25.83	Fail
Supplier 2	₹ 226.33	9.01	Pass
Supplier 3	₹ 170.71	8.27	Fail
Total	₹ 4,726.67	227.72	

Logistics & Transportation

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This page evaluates logistics cost, delivery performance, carrier efficiency, and transportation distribution to improve supply chain operations.

₹ 554.81
Total Shipping Cost



5.8
Avg Shipping Time (Days)



52.92K
Total Transportation Cost



₹ 5.55
Cost per Transportation



Carrier Performance: Shipping Cost vs Delivery Time

Quadrant analysis to identify efficient and inefficient carriers

Q1

Q4



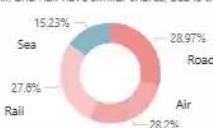
Shipping Cost Contribution by Carrier

"Heavily Concentrated For Carrier B"

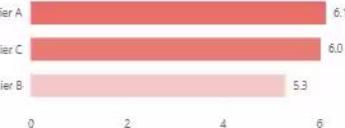


Transportation mode distribution

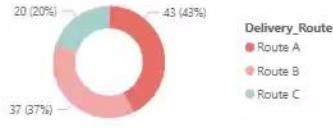
"Road, Air, and Rail have similar shares; Sea is the lowest."



Shipping Time (Days) by Carrier



Transportation routes frequency



Data Set: Supply Chain Data.csv | Prepared by Vani Charitha, Data Analyst Intern

NOTE: No time dimension available. Line chart used only for comparison.

Risk & Sustainability Analysis

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47

High Risk SKUs



54

High Lead Time SKUs



46

High Defect SKUs



33

Low Inventory SKUs

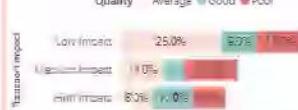


Suppliers
<input type="checkbox"/> Supplier 1
<input type="checkbox"/> Supplier 2
<input type="checkbox"/> Supplier 3
<input type="checkbox"/> Supplier 4
<input type="checkbox"/> Supplier 5

Supplier Impact

Supplier Risk Score Comparison

Quality Average Good Poor



Total SKU and Demand Growth %

Demand growth outpaces SKU growth.



SKU-Level Supply Chain Risk Summary

"High Risk Dominates Across Most SKUs."

SKU	Cost	Defect	Delay	Overall Risk
SKU0	High	Low	High	High
SKU1	High	High	High	High
SKU10	High	Low	High	High
SKU11	High	Low	High	High
SKU12	High	Low	High	High
SKU13	High	Low	High	High
SKU14	High	Low	High	High
SKU15	High	Low	Low	Medium
SKU16	High	Low	High	High
SKU17	High	Low	High	High
SKU18	High	Low	High	High
SKU19	High	High	High	High
SKU2	High	High	High	High
SKU20	High	High	High	High
SKU21	High	Low	High	High
SKU22	High	High	High	High

Product Count by Supply_Chain_Risk

Over half of SKUs fall under High Risk, requiring prioritization.

