Supplier 4:

 is the worst on performance variability and worst on Reliability score with all products failed at inspection test

Total revenue = 86.5k

Product sold = 7k

Avg MFG LT= 15.33

Supplier reliability score= 0

Supplier performance variability= 7.7

Highest transportation cost : route A

Most product with revenue: skincare

Avg LT=15.22

-----

Supplier 1:

Total revenue = 157.5k

Product sold = 11k

Avg MFG LT= 12.59

Supplier reliability score= 48.1%

Supplier performance variability= 8.39

Highest transportation cost : route B

Most product with revenue: skincare

Avg LT=14.78

-----

Supplier 2:

Total revenue = 125.5k

Product sold = 11k

Avg MFG LT= 15.59

Supplier reliability score= 22.7%

Supplier performance variability= 9.59

Highest transportation cost : route A

Most product with revenue: skincare

Avg LT=18.08

-----

Supplier 3:

Total revenue = 97.8k

Product sold = 8k

Avg MFG LT= 14.93

Supplier reliability score= 13.3%

Supplier performance variability= 8.00

Highest transportation cost : route B

Most product with revenue: skincare

Avg LT=20.13

-----

Supplier 5:

Total revenue = 110.3k

Product sold = 9k

Avg MFG LT= 16.33

Supplier reliability score= 16.7%

Supplier performance variability= 8.78

Highest transportation cost : route A

Most product with revenue: skincare

Avg LT=18.06

-----

Manufacturing insights

Skincare

Inspection faliure by suppliers: 197.5%

Inspection faliure rate by products: 32.5%

Production volumes=24366

Avg.Defect rates = 2.33

Avg MLT=13.78

MFG cost= 0.08

-------

Haircare

Inspection faliure by suppliers: 150%

Inspection faliure rate by products: 38.24%

Production volumes=19957

Avg.Defect rates = 2.48

Avg MLT=17.07

MFG cost= 0.08

--------

Cosmatics

Inspection faliure by suppliers: 165%

Inspection faliure rate by products: 38.46%

Production volumes=12461

Defect rates = 1.92

Avg MLT=13.31

MFG cost= 0.09

-----

Inventory managment

Sum of stock levels: 5k

Stock turn over ratio by supplier

Supplier 1 : 261.96

Supplier 2: 238.25

Supplier 3: 185.39

Supplier 4: 122.25

Supplier 5: 173.63

Stock turn over by product

Cosmatics:200.45

Haircare:281.49

Skincare:515.70

Avg stock level by product

Cosmatics:58.65

Haircare:48.35

Skincare:40.20

Sum of stock level by product

Cosmatics:1525

Haircare:1608

Skincare:1644

Sum of order quantities

Cosmatics: 1343

Haircare: 1480

Skin care: 2099

\_\_\_\_\_\_

Customer analysis

Sku by gender:

Female: 25%

Male: 21%

Non-binary: 23%

Prefer not to say: 31%

Revenue generated:

Female: 161.51

Male: 126.63k

Non-binary: 116.37k

Prefer not to say: 173.09k

Most purchase Product type

Female: skincare

Male: skincare

Non-binary: skincare

Prefer not to say: haircare

No of product sold by gender:

Female: 12801

Male: 7507

Non-binary: 10580

Prefer not to say: 15211

-------

Shipping and transportation analysis

Cards:

Total transportation costs: 52.92k

Total shipping costs: 554.82k

Avg shipping times: 5.75

Most used transportation mode: road

Transportation Mode by transportation cost:

Air: 561.71

Road: 553.39

Rail: 541.75

Sea: 417.82

Location and shipping routes:

Delhi:

avg. Shipping times : 5.93

Avg. Shipping cost: 5.07

Kolkata:

avg. Shipping times : 5.96

Avg. Shipping cost: 5.76

Mumbai:

avg. Shipping times : 5.55

Avg. Shipping cost: 6.25

Bangalore:

avg. Shipping times : 5.28

Avg. Shipping cost: 5.75

Chennai:

avg. Shipping times : 6.00

Avg. Shipping cost: 4.69

Sum of transportation costs by modes :

Road: 16.05k

Sea: 7.1 k

Air: 14.6k

Rail:15.17k

Transportation cost by routes and modes:

Route A:

Air: 5.8k

Rail: 6.8k

Road: 6k

Sea: 2.4k

Route B:

Air: 4.5k

Rail: 7k

Road: 7.1k

Sea: 3.4k

Route A:

Air: 4.4k

Rail: 1.4k

Road: 3k

Sea: 1.4k