PROCUREMENT SPEND & RISK ANALYSIS

PROJECT BY :- PARINEETA

TOOLS USED :- EXCEL (FOR PREPROCESSING), POWER BI (FOR DATA VISUALIZATION)

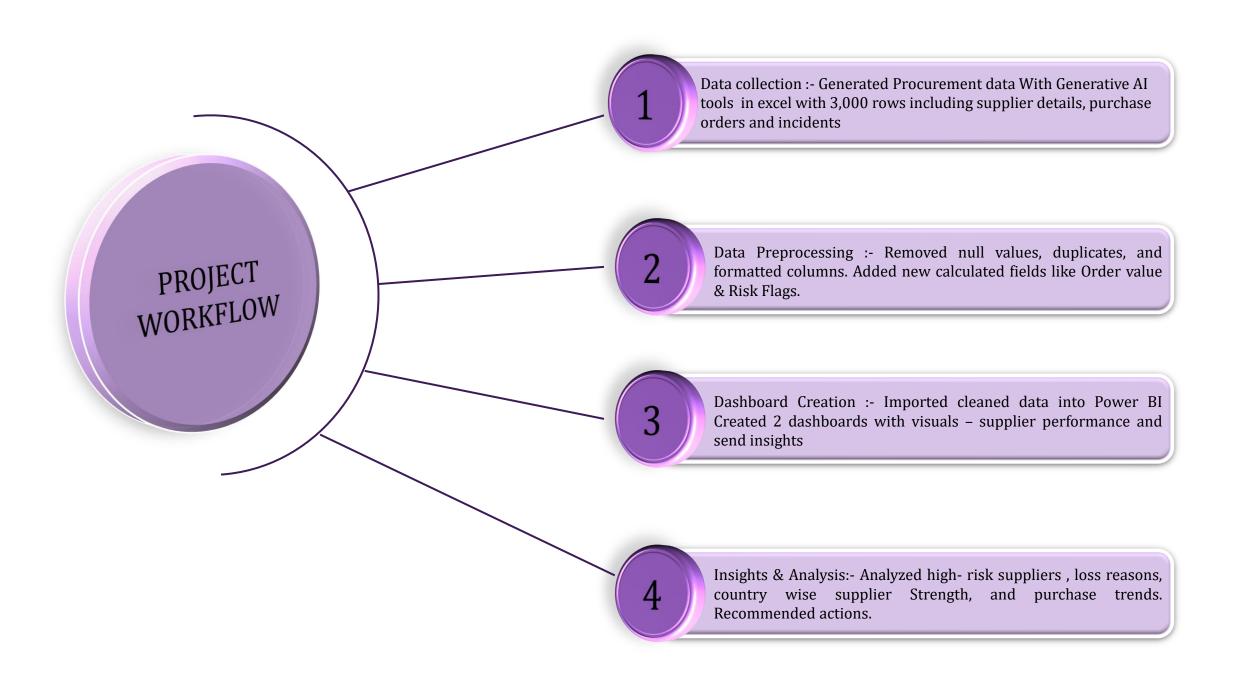
PAGES :-

- PAGE1-SUPPLIER PERFORMANCE OVERVIEW
- PAGE2 SPEND AND PROCUREMENT INSIGHTS

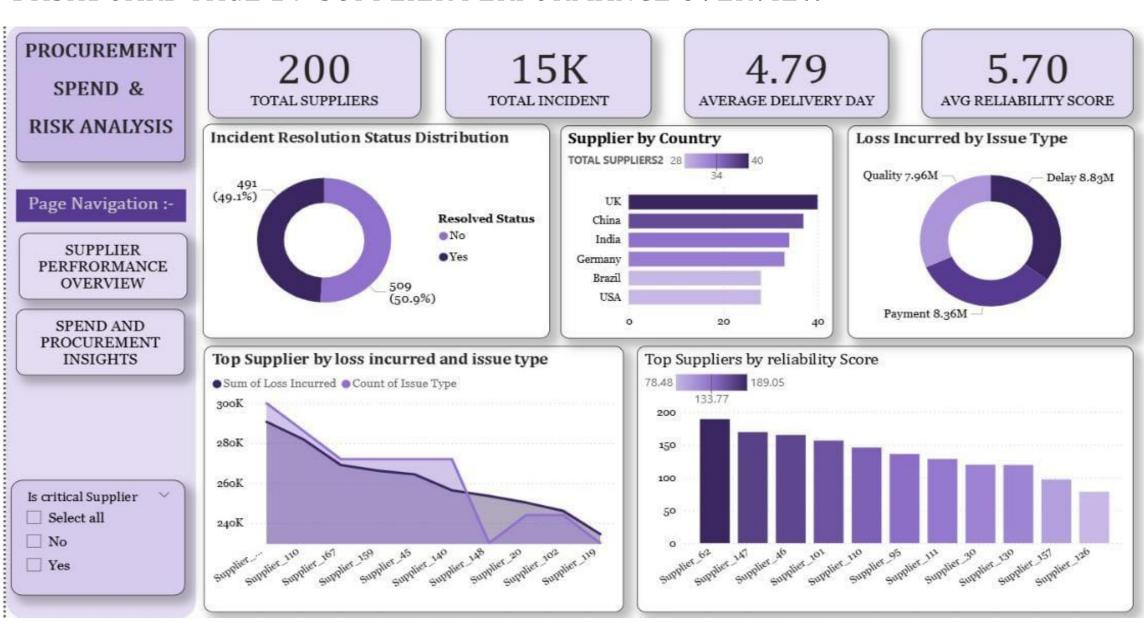
PROJECT OVERVIEW

• BACKGROUND:- Organizations spend millions on procurement every year. Inefficiencies in supplier performance and spend allocation can lead to significant risks and losses.

• OBJECTIVE:- To analyze procurement spend, monitor supplier performance, and identify high – risk areas using dashboards



DASHBOARD PAGE 1 :- SUPPLIER PERFORMANCE OVERVIEW



PROCUREMENT
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Page Navigation:

SUPPLIER PERFRORMANCE OVERVIEW

SPEND AND PROCUREMENT INSIGHTS

Is critical Supplier

Select all

_ No

Yes

200 TOTAL SUPPLIERS 15K TOTAL INCIDENT

Resolved St

Supplier by Country

4.79
AVERAGE DELIVERY DAY

5.70
AVG RELIABILITY SCORE

Loss Incurred by Issue Type

Incident Resolution Status Distribution

These Buttons help viewers switch between dashboard pages -- one for supplier performance and other for spend insights.

op Supplier by loss incurred and issue

TOTAL SUPPLIERS :- This shows the total number of unique suppliers we are working with.

TOTAL INCIDENTS: - Across all suppliers, a total of 15k issues or incidents have been reported – this includes quality issues, delays etc.

AVG. DELIVERY DAY :- The average time across all suppliers is approximately 4.79 days – a critical measure of supply efficiency.

AVG. RELIABILITY SCORE :- An average score based on delivery performance and incident handling.

This Filter allows us to isolate only critical suppliers or compare their performance with others.

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Page Navigation:-

SUPPLIER PERFRORMANCE OVERVIEW

SPEND AND PROCUREMENT INSIGHTS

Is critical Supplier
Select all
No
Yes

200 TOTAL SUPPLIERS 15K

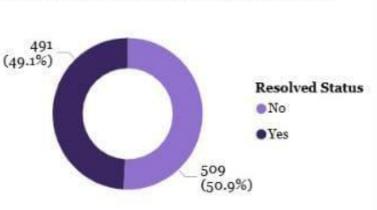
TOTAL INCIDENT

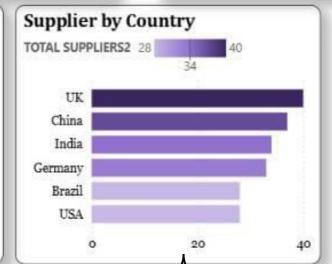
AVERAGE DELIVERY D

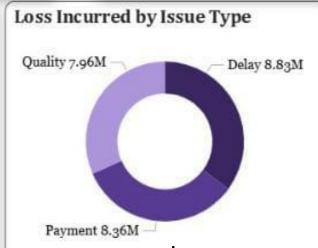
4.79

5.70

Incident Resolution Status Distribution







p Supplier by loss incurred and issue type

Sum of Loss Incurred Count of Issue Type

240K

This chart shows the proportion of incidents that were resolved versus unresolved. A majority, 50.8% are resolved – indicating good follow-up but room for improvement.

Here, we break down suppliers by country. The UK and China are our largest supplier bases, followed by India and Germany – this helps us assess regional dependency

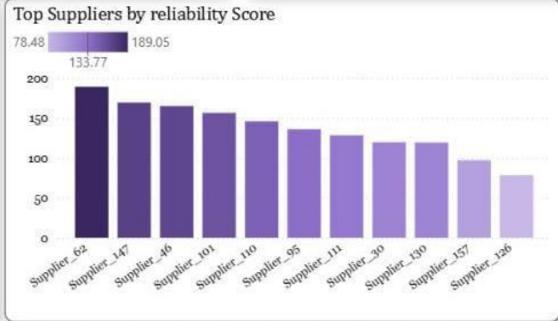
Top Suppliers by reliability Score

This chart helps identify which types of issues are causing the most financial losses— enabling better risk mitigation strategies.

Applier 110 Supplier 167 Supplier 159 Supplier 145 Supplier 148 Supplier 20 Supplier 162

15K 200 SPEND & TOTAL SUPPLIERS TOTAL INCIDENT **RISK ANALYSIS** Incident Resolution Status Distribution Supplier by Country 491 This visual ranks suppliers by how loss they have caused, grouped by issue type. SUPPLIER We can quickly identify the most problematic vendors. Brazil OVERVIEW SPEND AND PROCUREMENT Top Supplier by loss incurred and issue type INSIGHTS Sum of Loss Incurred
 Count of Issue Type 300K 200 28oK 150 100 260K 50 Select all 240K No Yes

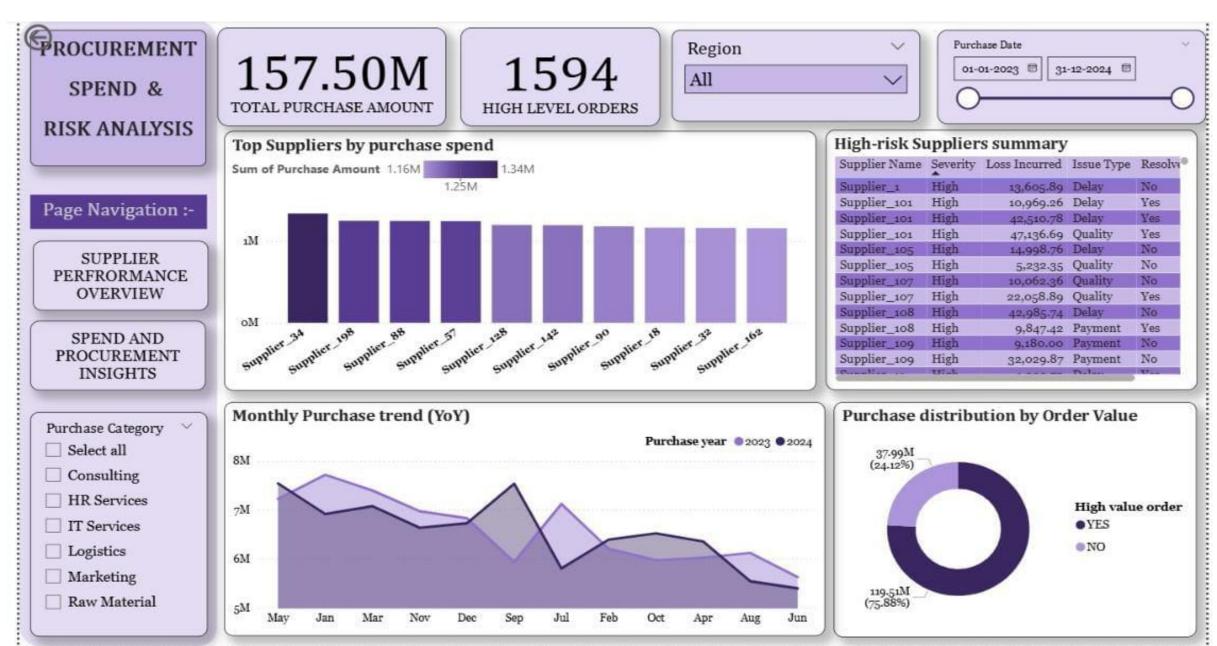




Strategic Insights from Supplier performance dashboard

- ❖ Managing a network of 200 suppliers across key regions (UK, China, India), highlighting the need for strong global coordination.
- ❖ Over 15,000 incidents recorded, indicating significant risk exposure in the procurement process.
- ❖ Average delivery time of 4.79 days reflects operational efficiency, though consistency must be ensured.
- ❖ An average reliability score of 5.70 suggests scope for performance enhancement among key suppliers.
- ❖ Only 50.8% of incidents are resolved, underscoring the need for stronger issue resolution mechanisms.
- Quality defects and delivery delays are the primary contributors to financial loss.
- ❖ Certain suppliers consistently incur high losses and should be reviewed for continued partnership.
- * Reliable suppliers have been identified, supporting more strategic supplier relationship management.
- ❖ The "Critical Suppliers" filter enables targeted decision-making and prioritization for essential vendors

DASHBOARD PAGE 2 :- SPEND AND PROCUREMENT INSIGHTS



PROCUREMENT
SPEND &
RISK ANALYSIS

Page Navigation:-

SUPPLIER PERFRORMANCE OVERVIEW

SPEND AND PROCUREMENT INSIGHTS

Pur	chase Category	~
	Select all	
	Consulting	
	HR Services	
	IT Services	
	Logistics	
	Marketing	
	Raw Material	

157.50M

TOTAL PURCHASE AMOUNT

1594

HIGH LEVEL ORDERS





TOTAL PURCHASE AMOUNT: This is the overall value of purchases made from suppliers, indicating the financial scale of procurement operations.

HIGH LEVEL ORDERS:- This metric reflects the number of transactions that are high in value—important for identifying financially significant deals that may carry higher risk or strategic importance.

Users can filter data by region or time period, helping regional managers or procurement analysts make targeted decisions.





PROCUREMENT SPEND & RISK ANALYSIS SUPPLIER PERFRORMANCE OVERVIEW SPEND AND PROCUREMENT INSIGHTS Select all Consulting HR Services IT Services Logistics Marketing Raw Material



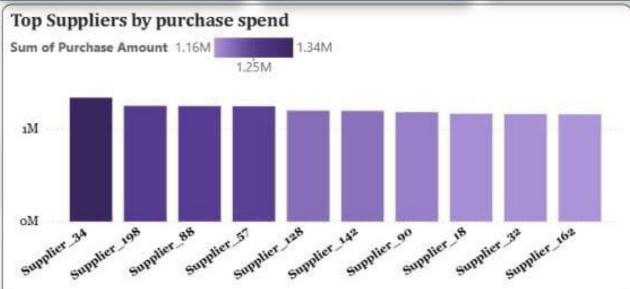
1594

All

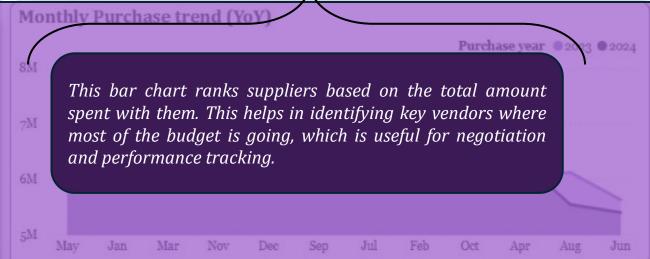
Region



TOTAL PURCHASE AMOUNT HIGH LEVEL ORDERS







This table lists suppliers with high incident severity, including the issue type, resolved status, and financial impact. It helps us identify and track risky suppliers that need attention or review.

119.51

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SUPPLIER PERFRORMANCE OVERVIEW

SPEND AND PROCUREMENT INSIGHTS

Purchase Category

Select all
Consulting
HR Services
IT Services

Logistics

Marketing

Raw Material

157.50M TOTAL PURCHASE AMOUNT

1594

HIGH LEVEL ORDERS



01-01-2023 🗒 31-12-2024 🗒

Top Suppliers by purchase spend

Sum of Purchase Amount 1.16M 1.34M

This trend chart compares monthly purchasing over two years (2023 vs 2024). It helps identify purchasing seasonality or anomalies, such as unexpected drops or spikes in spend.

High-risk Suppliers summary

Supplier Name Severity Loss Incurred Issue Type Resolve

Supplier_1 High 13,605.89 Delay

Supplier_101 High 10,969,26 Delay Supplier_101 High 42,510,78 Delay

This visual shows how much of the total purchase amount comes from high-value orders. It highlights risk concentration — with ~76% of procurement tied to large transactions, we may be more vulnerable to vendor disruption.

ier_109 High 32,029.87 Payment

Monthly Purchase trend (YoY)

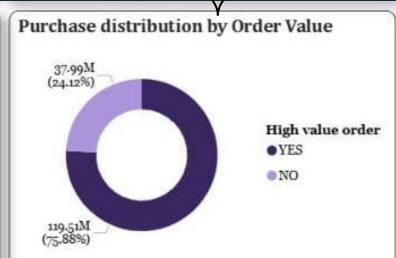
Purchase year ②2023 ②2024

8M

6M

6M

May Jan Mar Nov Dec Sep Jul Feb Oct Apr Aug Jun



Strategic Insights from Spend and procurement dashboard

- ❖ Total Purchase Amount stands at 157.50M, highlighting the scale of procurement activities across suppliers.
- ❖ There are 1594 High Value Orders, signaling strategic transactions that may carry higher financial or operational risk.
- ❖ The Top Suppliers by Purchase Spend bar chart helps identify the vendors with the highest procurement value crucial for negotiation leverage and vendor relationship management.
- The Monthly Purchase Trend (YoY) line chart shows purchasing patterns over two years (2023 & 2024). A visible drop in mid-2024 may indicate seasonal trends, budget constraints, or supplier issues.
- ❖ The Purchase Distribution by Order Value donut chart shows that 76% of orders are high value, which increases the risk exposure and financial dependency on select vendors.
- ❖ The High-Risk Suppliers Table summarizes vendors with high severity incidents, large financial losses, and unresolved issues:
- ❖ Helps risk mitigation by flagging suppliers repeatedly causing delays, quality issues, or payment problems.
- Some suppliers (e.g., Supplier_101, Supplier_109) appear multiple times, signaling consistent underperformance.
- ❖ Filters on Region, Purchase Date, and Category enable targeted views for category managers or regional heads to make focused decisions.

Recommendations

✓ Prioritize High-Risk Suppliers for Review

Focus on suppliers with high severity incidents and unresolved issues to minimize future disruptions and financial loss.

✓ Strengthen Supplier Contracts with Top Spenders

Negotiate better terms with suppliers receiving the highest purchase amounts to secure pricing and ensure consistent delivery.

✓ Reduce Dependency on Specific Regions

Diversify supplier base across countries like the UK and China to reduce risk from geopolitical or supply chain disruptions.

✓ Monitor High-Value Orders Closely

Implement stricter controls and tracking mechanisms for large transactions, which represent 76%+ of total spend.

Recommendations

✓ Address Quality & Delay-Related Losses

Since quality and delivery issues contribute the most to financial loss, initiate corrective action plans with frequently flagged suppliers.

✓ Reward High Reliability Suppliers

Continue engaging and potentially expand business with vendors having high reliability scores — they ensure supply chain stability.

✓ Review Monthly Procurement Trends

Analyze monthly fluctuations to align procurement strategy with demand cycles, optimize ordering, and avoid overstocking.

✓ Invest in Data-Driven Supplier Performance Management

Use these dashboards regularly to drive performance reviews, risk assessments, and strategic sourcing decisions.