COMPREHENSIVE INVOICE ANALYSIS REPORT

Invoice Number:	SBD/25-26/197
Supplier:	ISKO ENGINEERING PVT LTD
Total Amount:	■1,208,075.00
Processing Date:	2025-11-08 15:05:16
Document Type:	B2B_INVOICE
AI Confidence:	52.5%

Validation Status:	■ VALID
Duplication Status:	■ DUPLICATE
Tests Performed:	5 validation tests
Processing Status:	■ COMPLETED

EXECUTIVE SUMMARY

Invoice Assessment: REQUIRES REVIEW
Processing Confidence: 52.5%
Recommendation: MARK_AS_DUPLICATE

Key Findings:

- ■ All arithmetic validations passed successfully
- ■ Potential duplicate detected (95.0% confidence)
- ■ 5 AI recommendations provided

Business Impact:

This validation and duplication analysis reveals a critical and high-risk scenario with significant negative business impact across financial, operational, and compliance domains.
The extremely high confidence score (0.95) for the identified duplicates, based on exact invoice number and supplier matches, leaves virtually no doubt about the severity of the issue.
Overall Business Impact Assessment
The detection of 10 duplicate instances for Invoice ID 13 ("SBD/25-26/197" from "ISKO... [See AI Reasoning section for full analysis]

INVOICE DETAILS

Field	Value
Invoice Number	SBD/25-26/197
Invoice Date	2025-03-05
Supplier Name	ISKO ENGINEERING PVT LTD
Supplier GSTIN	24AAGCI9537F1ZG
Buyer Name	
Taxable Value	■1,023,792.00
Total Tax	■184,282.56
Total Amount	■1,208,075.00
Payment Terms	30 DAYS

Line Items Details:

Item	HSN Code	Qty	Unit Price	Taxable Value	GST Rate	GST Amount
Item 1: BASKET...	84049000	6.00	■170,632.00	■1,023,792.00	18.0%	■184,282.56

ARITHMETIC VALIDATION ANALYSIS

Validation Metric	Result
Total Tests Performed	5
Tests Passed	4
Tests Failed	1
Tax-related Failures (Ignored)	1
Critical Non-tax Failures	0
Suggestions Provided	5
Overall Status	■ VALID
Note	Tax-related validation failures are ignored

■ Valid Checks Log:

Test Name	Expected	Actual	Tolerance	Description
Line Item 1 Total	1023792.00	1023792.00	±0.05	quantity × unit_price should equal taxab...
Line Item 1 GST Calculation	184282.56	184282.56	±0.05	taxable_value × gst_rate/100 should equa...
Invoice Taxable Value Sum	1023792.00	1023792.00	±0.05	Sum of all line item taxable_values shou...
Invoice Tax Sum	184282.56	184282.56	±0.05	Sum of all line item taxes should equal ...

Detailed Validation Results:

Test Name	Status	Expected	Actual	Error Message
Line Item 1 Total	■ PASS	1023792.00	1023792.00	
Line Item 1 GST Calculation	■ PASS	184282.56	184282.56	
Invoice Taxable Value Sum	■ PASS	1023792.00	1023792.00	
Invoice Tax Sum	■ PASS	184282.56	184282.56	
Invoice Grand Total	■ FAIL	1208074.56	1208075.00	Taxable(1023792.0) + Tax(184282.56) = 1208074

AI Validation Analysis:

DUPLICATION DETECTION ANALYSIS

Analysis Metric	Result
Duplication Status	■ DUPLICATE DETECTED
Confidence Score	95.0%
Recommended Action	MARK_AS_DUPLICATE
Potential Matches Found	10
Analysis Method	Enhanced AI-Powered Detection

Potential Duplicate Matches:

Original Invoice	Match Type	Confidence	Matching Fields	Recommendation
SBD/25-26/197	EXACT_INVOICE_NUMBER_SAME_COMPANY	95%	Invoice Number: SBD/25-26/197, Supplier Company	CONFIRMED_DUPLICATE
SBD/25-26/197	EXACT_INVOICE_NUMBER_SAME_COMPANY	95%	Invoice Number: SBD/25-26/197, Supplier Company	CONFIRMED_DUPLICATE
SBD/25-26/197	EXACT_INVOICE_NUMBER_SAME_COMPANY	95%	Invoice Number: SBD/25-26/197, Supplier Company	CONFIRMED_DUPLICATE
SBD/25-26/197	EXACT_INVOICE_NUMBER_SAME_COMPANY	95%	Invoice Number: SBD/25-26/197, Supplier Company	CONFIRMED_DUPLICATE
SBD/25-26/197	EXACT_INVOICE_NUMBER_SAME_COMPANY	95%	Invoice Number: SBD/25-26/197, Supplier Company	CONFIRMED_DUPLICATE

Analysis Summary:

Invoice Analysis: SBD/25-26/197 Supplier: iSKO ENGINEERING PVT LTD Amount: ■1,208,075.00
Found 10 potential duplicate(s): 1. SBD/25-26/197 (Confidence: 95.0%, Type: EXACT_INVOICE_NUMBER_SAME_COMPANY) 2. SBD/25-26/197 (Confidence: 95.0%, Type: EXACT_INVOICE_NUMBER_SAME_COMPANY) 3. SBD/25-26/197 (Confidence: 95.0%, Type: EXACT_INVOICE_NUMBER_SAME_COMPANY) 4. SBD/25-26/197 (Confidence: 95.0%, Type: EXACT_INVOICE_NUMBER_SAME_COMPANY) 5. SBD/25-26/197 (Confidence: 95.0%, Type: EXACT_INVOICE_NUMBER_SAME_COMPANY) 6. SBD/25-26/197 (Confidence: 95.0%, Type: EXACT_INVOICE_NUMBER_SAME_COMPANY) 7. SBD/25-26/197 (Confidence: 95.0%, Type: EXACT_INVOICE_NUMBER_SAME_COMPANY) 8. SBD/25-26/197 (Confidence: 95.0%, Type: EXACT_INVOICE_NUMBER_SAME_COMPANY) 9. SBD/25-26/197 (Confidence: 95.0%, Type: EXACT_INVOICE_NUMBER_SAME_COMPANY) 10. SBD/25-26/197 (Confidence: 95.0%, Type: EXACT_INVOICE_NUMBER_SAME_COMPANY) ■ CONCLUSION: This invoice appears to be a DUPLICATE.

AI Duplication Analysis:

This analysis identifies a critical and high-risk duplication scenario.
1.
Patterns That Indicate Potential Duplicates
The duplication detection results for Invoice ID 13, "SBD/25-26/197" from "ISKO ENGINEERING PVT LTD", show an extremely strong pattern of duplication based on the following:
• Exact Invoice Number Match: The primary and most compelling pattern is the identical invoice number, "SBD/25-26/197".
Invoice numbers are designed to be unique identifiers for transactions from a specific supplier.
• Same Supplier: All identified duplicates originate from the same supplier, "ISKO ENGINEERING PVT LTD" (indicated by suppliercompanyid: 1).
This reinforces the likelihood of a true duplicate, as different suppliers might coincidentally use the same invoice number format but would rarely issue the exact same number.
Multiple Occurrences: The system has found 10 other instances* of an invoice with the exact same

number ("SBD/25-26/197") from the same supp... [Analysis truncated for space]

AI REASONING & RECOMMENDATIONS

AI Analysis Metric	Result
Overall Confidence	52.5%
Analysis Type	Comprehensive Validation & Duplication
Processing Status	Completed Successfully
Recommendations Generated	5

AI-Generated Recommendations:

1. Investigate potential duplicate submission

2. Cross-reference with payment records

3. Implement additional duplicate prevention controls

4. Based on the critical duplication scenario identified, here are 4 specific, actionable recommendations:

5. 1.
Immediate Financial Hold & Overpayment Recovery:

Business Impact Assessment:

This validation and duplication analysis reveals a critical and high-risk scenario with significant negative business impact across financial, operational, and compliance domains.
The extremely high confidence score (0.95) for the identified duplicates, based on exact invoice number and supplier matches, leaves virtually no doubt about the severity of the issue.
Overall Business Impact Assessment
The detection of 10 duplicate instances for Invoice ID 13 ("SBD/25-26/197" from "ISKO ENGINEERING PVT LTD"), each for an amount of 1,208,075.0, indicates a systemic failure in invoice processing and payment controls.
This is not an isolated incident but a recurring problem with potentially catastrophic financial implications.
1.
Financial Risk Level: Extremely High
Direct Financial Loss (Overpayment): The most immediate and severe risk is the potential for massive overpayment.
If all 10 identified duplicates have been processed and paid, the company stands to have overpaid 10 1,208,075.0 = 12,080,750.0 (or more, if the original Invoice ID 13 was also paid and the 10 are additional payments for the same underlying transaction).
This represents a direct and substantial loss of working capital.
• Cash Flow Impact: Such a significant overpayment severely impacts the company's cash flow, potentially leading to liquidity issues, missed investment opportunities, or increased borrowing costs.
• Recovery Costs: Recovering overpaid funds can be a complex, time-consuming, and potentially costly process, involving legal fees, administrative overhead, and strained supplier relationships.
There's no guarantee of full recovery, especially if the supplier is uncooperative or financially unstable.
• Fraud Risk: While not explicitly stated as fraud, the repeated processing of identical invoices from the

AI Final Analysis:

Executive Summary: Critical Invoice Duplication Alert

This analysis identifies a critical and high-risk duplication scenario involving Invoice ID 13 ("SBD/25-26/197" from "ISKO ENGINEERING PVT LTD").

We have identified 10 exact duplicates based on identical invoice numbers and supplier, with an exceptionally high confidence level of 95%.

This represents an extremely high financial risk, indicating a systemic failure in payment controls with a potential overpayment exceeding 12 million.

Confidence Assessment:

• Confidence Score: 0.95 (95%) - Exceptionally High.

This score signifies near certainty that the identified invoices are duplicates, based on exact matches of invoice number and supplier.

Key Action Items:

1.

Immediate Financial Hold & Overpayment Recovery: Place an immediate hold on any related payments and initiate recovery of the potential 12,080,750.0 overpayment.

2.

Root Cause Investigation: Conduct a thorough investigation into the systemic failure that allowed these duplicate invoices to be processed and paid.

3.

Payment Reconciliation: Cross-reference all identified duplicate invoices with payment records to confirm actual overpayments and their exact magnitude.

4.

Enhanced Prevention Controls: Implement robust, automated duplicate prevention controls within the invoice processing system to prevent future occurrences.

TECHNICAL DETAILS & DATABASE INFORMATION

Document Classification:

Classification Attribute	Value
Document Type	B2B_INVOICE
Classification Confidence	95.5%
Keywords Detected	invoice, bill, gstin, gst, invoice no, bill no, taxable value, cgst, sgst,
Processing Method	AI-Powered Classification

Database Records Created:

Record Type	Database ID
Document Record	13
Invoice Record	13
Supplier Company	1
Buyer Company	None

Processing Metadata:

- Processing Timestamp: 2025-11-08 15:05:16
- Source Filename: 1_1762594433622.pdf
- Processing Time: Not recorded
- Errors Encountered: 0

This report was generated by the Intelligent Invoice Processing System. All analysis results are based on AI-powered validation and duplication detection algorithms.