

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 14:22:44
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:

The validation and duplication analysis has identified a critical issue: 7 instances of the exact same invoice (Invoice ID 9, invoice number "SBD/25-26/197" from "ISKO ENGINEERING PVT LTD", valued at ■1,208,075.00).

The high confidence score of 95% strongly indicates these are indeed duplicates.

This finding carries significant business implications across financial, operational, and compliance domains.

Business Impact Assessment

1.

Financial Risk Level: High

The financi... [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) = 1208074.56

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	6
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	95.0%	Invoice Number: SBD/25-26/197, Supplier: iSKO ENGINEERING PVT LTD	DUPLICATE
SBD/25-26/197	EXACT_INVOICE_NUMBER_SAME_COMPANY	95.0%	Invoice Number: SBD/25-26/197, Supplier: iSKO ENGINEERING PVT LTD	DUPLICATE
SBD/25-26/197	EXACT_INVOICE_NUMBER_SAME_COMPANY	95.0%	Invoice Number: SBD/25-26/197, Supplier: iSKO ENGINEERING PVT LTD	DUPLICATE
SBD/25-26/197	EXACT_INVOICE_NUMBER_SAME_COMPANY	95.0%	Invoice Number: SBD/25-26/197, Supplier: iSKO ENGINEERING PVT LTD	DUPLICATE
SBD/25-26/197	EXACT_INVOICE_NUMBER_SAME_COMPANY	95.0%	Invoice Number: SBD/25-26/197, Supplier: iSKO ENGINEERING PVT LTD	DUPLICATE

Analysis Summary:

Invoice Analysis: SBD/25-26/197 Supplier: iSKO ENGINEERING PVT LTD Amount: ■1,208,075.00
Found 6 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) ■ CONCLUSION: This invoice appears to be a DUPLICATE.

AI Duplication Analysis:

This analysis focuses on Invoice ID 9, with invoice number "SBD/25-26/197" from "ISKO ENGINEERING PVT LTD", valued at ■1,208,075.00.

1. Patterns Indicating Potential Duplicates

The duplication detection results present a clear and strong pattern indicative of duplicate invoices:

- Exact Invoice Number Match: The primary and most compelling pattern is the exact match of the invoice_num ("SBD/25-26/197") across multiple entries.

This is the strongest single indicator of a duplicate.

Same Supplier: All matching invoices originate from the exact same supplier* ("ISKO ENGINEERING PVT LTD").

This eliminates the possibility of different suppliers using coincidentally similar invoice numbers.

The system also confirms the suppliercompanyid is identical (ID 1) for all instances.

- Multiple Instances: The system identified 6 other invoices (IDs 1, 2, 3, 4, 6, 8) that are identical to Invoice ID 9 in terms of invoice number and supplier.

This means there ... [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 findings of 7 exact duplicate invoices with a 95% confidence score and a high financial risk, here are 5 specific, actionable recommendations:
5. 1.
Immediate Payment Hold & Forensic Investigation:

Business Impact Assessment:

The validation and duplication analysis has identified a critical issue: 7 instances of the exact same invoice (Invoice ID 9, invoice number "SBD/25-26/197" from "ISKO ENGINEERING PVT LTD", valued at █1,208,075.00).

The high confidence score of 95% strongly indicates these are indeed duplicates.

This finding carries significant business implications across financial, operational, and compliance domains.

Business Impact Assessment

1.

Financial Risk Level: High

The financial risk associated with this duplication is substantial and immediate.

- **Direct Financial Loss (Overpayment):** Assuming only one of the seven invoices is legitimate, the company faces a potential overpayment of █7,248,450.00 (6 duplicate invoices x █1,208,075.00). If all 7 were paid, the total outflow for a single transaction would be █8,456,525.00.

This represents a significant and avoidable loss of capital.

- **Cash Flow Impact:** Unnecessary payments tie up working capital, reducing liquidity and potentially impacting the company's ability to fund other critical operations or investments.

- **Recovery Costs:** Even if detected post-payment, recovering overpaid funds can be a complex, time-consuming, and costly process, involving administrative effort, potential legal fees, and strained supplier relationships.

There's no guarantee of full recovery.

- **Fraud Risk:** The presence of multiple exact duplicates (7 instances) elevates the risk beyond simple administrative error to potential fraud.

This could be an attempt by the supplier to illicitly gain funds or an internal actor manipulating the system.

Unchecked, this pattern could indicate a systemic vulnerability to fraudulent activities.

- **Reputational Damage:** Discovery of significant overpayments, especially if they become public or lead to disputes, can damage the company's reputation with its suppliers, investors, and other stakeholders, impacting trust and future business relationships.

2.

Process Efficiency Impact: Significant Negative Impact

The existence of these duplicates highlights severe inefficiencies within the current Accounts

Payable (AP) process.

- **Wasted Resources:** Each duplicate invoice requires processing steps, including data entry, routing for approvals, reconciliation, and potentially payment initiation.

This consumes valuable AP staff time and system resources that could be better utilized for legitimate transactions.

- **Increased Workload & Backlogs:** AP teams are burdened with investigating, reconciling, and correcting errors related to duplicates, diverting their focus from processing valid invoices efficiently. This can lead to processing backlogs and delays for other critical payments.

- **Error Correction Overhead:** Reversing payments, adjusting ledger entries, and communicating with suppliers about overpayments are complex and time-consuming tasks, adding significant overhead compared

AI Final Analysis:

Executive Summary: Critical Duplicate Invoice Alert

Analysis has identified a critical issue: seven exact duplicate invoices for "SBD/25-26/197" from "ISKO ENGINEERING PVT LTD", each valued at ■1,208,075.00.

We have 95% confidence that these are indeed duplicate entries, based on exact matches of invoice number and supplier across all instances.

This represents a high financial risk, with a potential overpayment of ■7,248,450.00 if all duplicates are processed, and raises significant concerns regarding potential fraud and severe operational inefficiencies.

Key Action Items: Immediate action is required to place a payment hold on these invoices and initiate a forensic investigation to determine the root cause and prevent further financial loss.

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	9
Invoice Record	9
Supplier Company	1
Buyer Company	None

Processing Metadata:

- Processing Timestamp: 2025-11-08 14:22:44
- Source Filename: 1_1762591878382.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.