

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 10:45:54
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 for Invoice ID 2 (SBD/25-26/197) reveals critical issues with significant business implications.

The primary concern is a highly confident duplicate invoice, compounded by a minor arithmetic discrepancy.

Business Impact Assessment

1.

Financial Risk Level: High

The financial risk

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 taxable_value
Line Item 1 GST Calculation	184282.56	184282.56	±0.05	taxable_value × gst_rate/100 should equal tax_amount
Invoice Taxable Value Sum	1023792.00	1023792.00	±0.05	Sum of all line item taxable_values should equal taxable_value
Invoice Tax Sum	184282.56	184282.56	±0.05	Sum of all line item taxes should equal tax_amount

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:

Invoice Validation Analysis: Invoice SBD/25-26/197 (ID: 2)

Overall Validation Outcome:

The invoice validation for SBD/25-26/197 (Invoice ID: 2) indicates a largely accurate invoice with one minor arithmetic discrepancy.

Out of 5 core arithmetic tests performed, 4 passed successfully, while 1 test failed.

Despite this single failure, the overall_passed flag is true, suggesting that the system's configured

DUPLICATION DETECTION ANALYSIS

Analysis Metric	Result
Duplication Status	■ DUPLICATE DETECTED
Confidence Score	95.0%
Recommended Action	MARK_AS_DUPLICATE
Potential Matches Found	1
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, Confidence: 95.0%	DUPLICATE

Analysis Summary:

Invoice Analysis: SBD/25-26/197 Supplier: iSKO ENGINEERING PVT LTD Amount: ■ 1,208,075.00
Found 1 potential duplicate(s): 1. 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 2, identified as a highly confident duplicate.

1.

Patterns that Indicate Potential Duplicates

The primary pattern indicating a potential duplicate for Invoice ID 2 is an exact match on the invoice number combined with the same supplier.

- Exact Invoice Number Match: Both Invoice ID 2 and the identified original invoice (ID 1) share the exact same invoice number: "SBD/25-26/197".

This is a very strong indicator, as unique invoice numbers are a fundamental principle of invoicing.

- Same Supplier: Both invoices are from "iSKO ENGINEERING PVT LTD" and share the same internal suppliercompanyid (ID 1).

This eliminates the possibility of two different suppliers coincidentally using the same invoice number.

- Contextual Consistency (Implicit): While not explicitly listed as a matching field beyond the core, the fact that the system flags this as a duplicate implies that other key attributes (like total value, taxable value, t... [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 analysis, here are 3-5 specific, actionable recommendations:
 5. 1. Immediately Place a Hard Hold and Mark as Duplicate:

Business Impact Assessment:

The validation and duplication analysis for Invoice ID 2 (SBD/25-26/197) reveals critical issues with significant business implications.

The primary concern is a highly confident duplicate invoice, compounded by a minor arithmetic discrepancy.

Business Impact Assessment

1.

Financial Risk Level: High

The financial risk

AI Final Analysis:

Executive Summary

Overall Assessment:

Invoice SBD/25-26/197 (ID: 2) presents a critical issue: it is a highly confident duplicate of an existing invoice (ID 1) from the same supplier, posing a significant financial risk of double payment. While the invoice passed most arithmetic validation checks, with only one minor discrepancy, the duplication issue is paramount.

Concise Explanation for Business Users:

Our analysis strongly indicates that Invoice ID 2 is a duplicate of Invoice ID 1 from iSKO ENGINEERING PVT LTD, for the amount of ■1,208,075.00.

This conclusion is based on an exact match of the invoice number and supplier, making it highly probable that processing Invoice ID 2 would lead to a double payment and a direct financial loss. While the invoice is mostly arithmetically correct, the duplicate status is the primary concern requiring immediate action.

Confidence Assessment:

We have 95% confidence that Invoice ID 2 is a true duplicate, given the exact match on the invoice number and supplier.

This is an exceptionally high confidence level, indicating compelling and unambiguous evidence.

Key Action Items:

1.

Immediately place a hard hold on Invoice ID 2 and formally mark it as a duplicate.

2.

Conduct an urgent manual verification: Compare Invoice ID 2 with Invoice ID 1 and, most critically, confirm the payment status of Invoice ID 1.

3.

Investigate the root cause of the duplicate submission and explore implementing additional preventative controls to mitigate future occurrences.

Overall Assessment and Key Actions (2-3 sentence summary):

Invoice SBD/25-26/197 (ID: 2) is a 95% confident duplicate of an existing invoice, carrying a high financial risk of double payment for ■1,208,075.00.

Immediate action is required to place a hard hold on Invoice ID 2, manually verify its duplicate status against Invoice ID 1's payment record, and investigate the source of this submission 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	2
Invoice Record	2
Supplier Company	1
Buyer Company	None

Processing Metadata:

- Processing Timestamp: 2025-11-08 10:45:54
- Source Filename: 1_1762578871444.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.