

# COMPREHENSIVE INVOICE ANALYSIS REPORT

<b>Invoice Number:</b>	SBD/25-26/197
<b>Supplier:</b>	ISKO ENGINEERING PVT LTD
<b>Total Amount:</b>	■ 1,208,075.00
<b>Processing Date:</b>	2025-11-08 14:29:11
<b>Document Type:</b>	B2B_INVOICE
<b>AI Confidence:</b>	52.5%

<b>Validation Status:</b>	■ VALID
<b>Duplication Status:</b>	■ DUPLICATE
<b>Tests Performed:</b>	5 validation tests
<b>Processing Status:</b>	■ 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 highlights a critical issue with Invoice ID 10, indicating a high-confidence duplicate.

The business impact is significant across financial, operational, and compliance dimensions.

#### Executive Summary

The analysis reveals that Invoice ID 10 (value ■1,208,075.00) is a near-certain duplicate (95% confidence) of 7 other invoices, all sharing the exact same invoice number ("SBD/25-26/197") from the same supplier ("ISKO ENGINEERING PVT LTD").

This rep... [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 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, but actual result is 1208075.00

### 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	7
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, Company Name: ISKO ENGINEERING PVT LTD	■ DUPLICATE
SBD/25-26/197	EXACT_INVOICE_NUMBER_SAME_COMPANY	95.0%	Invoice Number: SBD/25-26/197, Company Name: ISKO ENGINEERING PVT LTD	■ DUPLICATE
SBD/25-26/197	EXACT_INVOICE_NUMBER_SAME_COMPANY	95.0%	Invoice Number: SBD/25-26/197, Company Name: ISKO ENGINEERING PVT LTD	■ DUPLICATE
SBD/25-26/197	EXACT_INVOICE_NUMBER_SAME_COMPANY	95.0%	Invoice Number: SBD/25-26/197, Company Name: ISKO ENGINEERING PVT LTD	■ DUPLICATE
SBD/25-26/197	EXACT_INVOICE_NUMBER_SAME_COMPANY	95.0%	Invoice Number: SBD/25-26/197, Company Name: ISKO ENGINEERING PVT LTD	■ DUPLICATE

### Analysis Summary:

Invoice Analysis: SBD/25-26/197 Supplier: iSKO ENGINEERING PVT LTD Amount: ■1,208,075.00  
Found 7 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) ■ CONCLUSION: This invoice appears to be a DUPLICATE.

### AI Duplication Analysis:

This analysis focuses on Invoice ID 10, 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 analysis provides exceptionally strong evidence that Invoice ID 10 is a duplicate.

The primary pattern identified is:

- Exact Invoice Number Match with the Same Supplier:

\* The system found 7 other invoices (IDs 1, 2, 3, 4, 6, 8, 9) that share the exact same invoice number ("SBD/25-26/197") and are from the exact same supplier ("ISKO ENGINEERING PVT LTD").

\* This is categorized as EXACTINVOICENUMBERSAMECOMPANY, which is one of the most definitive indicators of a duplicate invoice.

\* While other fields like total value, taxable value, total tax, invoice date, and line item count are present for Invoice 10, the core matching logic relies on the invoice number and supplier, which are fundamental identifiers.

If these are identical, it's highly improb... [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 4 specific, actionable recommendations:
  5. 1. Immediately Halt Payments & Investigate:

### Business Impact Assessment:

This validation and duplication analysis highlights a critical issue with Invoice ID 10, indicating a high-confidence duplicate.

The business impact is significant across financial, operational, and compliance dimensions.

#### Executive Summary

The analysis reveals that Invoice ID 10 (value **₹1,208,075.00**) is a near-certain duplicate (95% confidence) of 7 other invoices, all sharing the exact same invoice number ("SBD/25-26/197") from the same supplier ("ISKO ENGINEERING PVT LTD").

This represents a severe breakdown in financial controls and poses a substantial risk of overpayment, process inefficiency, and compliance breaches.

Immediate action is required to prevent financial loss and rectify underlying process weaknesses.

#### Business Impact Assessment

1.

Financial Risk Level: CRITICAL / HIGH

- Potential Overpayment: The most immediate and significant financial risk is the potential for multiple payments for a single service or good.

With 8 instances of the same invoice (Invoice ID 10 plus 7 others), the total potential overpayment could be **₹1,208,075.00 x 8 = ₹9,664,600.00**.

Even if only a subset has been paid, the risk is substantial.

- Cash Flow Impact: Overpayments tie up working capital unnecessarily, reducing liquidity and potentially impacting other critical business operations or investment opportunities.
- Recovery Costs: If payments have already been disbursed, the cost and effort associated with recovering funds from the supplier (e.g., administrative time, legal fees if disputes arise) can be considerable.
- Fraud Risk: While accidental submission is possible, the repeated nature (8 times) raises a red flag for potential fraudulent activity, which could lead to direct financial loss and legal repercussions.
- Reputational Damage: Discovery of such a significant control failure, especially if it leads to public reporting or supplier disputes, can damage the company's reputation and trust with its vendors and stakeholders.

2.

Process Efficiency Impact: SIGNIFICANTLY NEGATIVE

\*Manual Rework and

## **AI Final Analysis:**

Here's the synthesized analysis:

### **Executive Summary**

The analysis reveals that Invoice ID 10 (valued at □1,208,075.00) is a near-certain duplicate (95% confidence).

It shares the exact same invoice number ("SBD/25-26/197") and supplier ("ISKO ENGINEERING PVT LTD") with 7 other invoices, indicating a severe breakdown in financial controls.

This poses a critical financial risk, with a potential overpayment of □9,664,600.00 if all 8 instances are paid.

Beyond the immediate financial loss, this issue highlights significant operational inefficiencies, potential fraud risk, and compliance vulnerabilities.

Immediate action is required to prevent further financial loss and rectify underlying process weaknesses.

### **Concise Explanation for Business Users**

We've identified a critical problem with Invoice ID 10.

It appears to be a duplicate of 7 other invoices, all from the same supplier and using the exact same invoice number.

Think of it like receiving 8 separate bills for the exact same single purchase.

This is a very strong indicator that we could be paying for the same service or goods multiple times.

The financial risk is substantial, potentially leading to nearly □9.7 million in overpayments.

This situation not only impacts our cash flow but also signals a serious gap in our payment processes that needs immediate attention to prevent future losses and ensure we're not being defrauded.

### **Confidence Assessment**

- Confidence Score: 0.95 (95%)
- Significance: This is an extremely high confidence assessment, signifying near-certainty that Invoice ID 10 is a duplicate.

The exact match of both the invoice number and the supplier is one of the most definitive indicators of a duplicate, leaving very little room for legitimate variation.

### **Key Action Items**

1.

Immediately Halt Payments: Place an immediate hold on Invoice ID 10 and all 7 related invoices ("SBD/25-26/197" from "ISKO ENGINEERING PVT LTD") to prevent any further overpayments.

2.

Thorough Investigation & Recovery: Cross-reference these invoices with payment records to determine if any have already been paid.

If so, initiate immediate recovery efforts and investigate the root cause (accidental submission vs. potential fraudulent activity).

3.

Implement Enhanced Duplicate Controls: Review and strengthen current accounts payable processes and system controls to automatically detect and prevent such exact-match duplicates from being processed in the future.

4.

Supplier Engagement: Communicate with ISKO ENGINEERING PVT LTD to understand how multiple invoices with the same number were issued and to establish protocols to prevent recurrence.

## 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	10
Invoice Record	10
Supplier Company	1
Buyer Company	None

### Processing Metadata:

- Processing Timestamp: 2025-11-08 14:29:11
- Source Filename: 1\_1762592272032.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.