

COMPREHENSIVE INVOICE ANALYSIS REPORT

Invoice Number:	795 / 2025-26
Supplier:	Om Flex Printing
Total Amount:	■20,979.40
Processing Date:	2025-11-08 03:59:31
Document Type:	B2B_INVOICE
AI Confidence:	100.0%

Validation Status:	■ VALID
Duplication Status:	■ UNIQUE
Tests Performed:	16 validation tests
Processing Status:	■ COMPLETED

EXECUTIVE SUMMARY

Invoice Assessment: APPROVED
Processing Confidence: 100.0%
Recommendation: APPROVE_AS_UNIQUE

Key Findings:

- ■ All arithmetic validations passed successfully
- ■ No duplicates detected - invoice appears unique
- ■ 5 AI recommendations provided

Business Impact:

This assessment evaluates the business impact of the validation and duplication analysis results for Invoice ID 13 ("795 / 2025-26") from "Om Flex Printing" with an amount of 20979.4.

Business Impact Assessment: Invoice ID 13

Overall Summary:

The analysis indicates that Invoice ID 13 has successfully passed all critical arithmetic validation checks and is definitively not a duplicate.

This outcome significantly de-risks the processing of this specific invoice across financial, ope...

[See AI Reasoning section for full analysis]

INVOICE DETAILS

Field	Value
Invoice Number	795 / 2025-26
Invoice Date	2025-05-02
Supplier Name	Om Flex Printing
Supplier GSTIN	06ANSPK3486H1ZI
Buyer Name	Adani Intra & Der pvt. ltd.
Taxable Value	■17,830.00
Total Tax	■3,149.40
Total Amount	■20,979.40
Payment Terms	10 DAYS

Line Items Details:

Item	HSN Code	Qty	Unit Price	Taxable Value	GST Rate	GST Amount
Item 1: Sandwich Board Au Di...	7318	4.00	■750.00	■3,000.00	18.0%	■540.00
Item 2: Sandwich Boand A3 Di...	7318	4.00	■1,100.00	■4,400.00	18.0%	■792.00
Item 3: vinyl Print with ACP...	3920	3.00	■2,040.00	■6,120.00	18.0%	■1,101.60
Item 4: star Fiex Print 3x5-...	3921	2.00	■255.00	■510.00	18.0%	■91.80
Item 5: Badge Print with saf...	4821	300.00	■6.00	■1,800.00	18.0%	■324.00
Item 6: Flage print 3x2'...	5907	1.00	■1,000.00	■1,000.00	12.0%	■120.00
Item 7: Transport charge...		0.00	■0.00	■1,000.00	18.0%	■180.00

ARITHMETIC VALIDATION ANALYSIS

Validation Metric	Result
Total Tests Performed	16
Tests Passed	16
Tests Failed	0
Suggestions Provided	6
Overall Status	■ VALID

■ Valid Checks Log:

Test Name	Expected	Actual	Tolerance	Description
Line Item 1 Total	3000.00	3000.00	±0.05	quantity × unit_price should equal taxab...
Line Item 2 Total	4400.00	4400.00	±0.05	quantity × unit_price should equal taxab...
Line Item 3 Total	6120.00	6120.00	±0.05	quantity × unit_price should equal taxab...
Line Item 4 Total	510.00	510.00	±0.05	quantity × unit_price should equal taxab...
Line Item 5 Total	1800.00	1800.00	±0.05	quantity × unit_price should equal taxab...
Line Item 6 Total	1000.00	1000.00	±0.05	quantity × unit_price should equal taxab...
Line Item 1 GST Calculation	540.00	540.00	±0.05	taxable_value × gst_rate/100 should equa...
Line Item 2 GST Calculation	792.00	792.00	±0.05	taxable_value × gst_rate/100 should equa...
... and 8 more valid checks				

Detailed Validation Results:

Test Name	Status	Expected	Actual	Error Message
Line Item 1 Total	■ PASS	3000.00	3000.00	
Line Item 2 Total	■ PASS	4400.00	4400.00	
Line Item 3 Total	■ PASS	6120.00	6120.00	
Line Item 4 Total	■ PASS	510.00	510.00	
Line Item 5 Total	■ PASS	1800.00	1800.00	
Line Item 6 Total	■ PASS	1000.00	1000.00	
Line Item 1 GST Calculation	■ PASS	540.00	540.00	
Line Item 2 GST Calculation	■ PASS	792.00	792.00	
Line Item 3 GST Calculation	■ PASS	1101.60	1101.60	
Line Item 4 GST Calculation	■ PASS	91.80	91.80	

... and 12 more test results

AI Validation Analysis:

Invoice Validation Analysis: Invoice ID 13

Overall Assessment:

The invoice (ID 13, "795 / 2025-26") has passed all critical arithmetic validation checks

DUPLICATION DETECTION ANALYSIS

Analysis Metric	Result
Duplication Status	■ UNIQUE INVOICE
Confidence Score	0.0%
Recommended Action	APPROVE_AS_UNIQUE
Potential Matches Found	0
Analysis Method	Enhanced AI-Powered Detection

■ No potential duplicates found. Invoice appears to be unique.

Analysis Summary:

Invoice Analysis: 795 / 2025-26 Supplier: Om Flex Printing Amount: ■20,979.40 No significant duplicate patterns detected. ■ CONCLUSION: This invoice appears to be UNIQUE.

AI Duplication Analysis:

This detailed analysis focuses on Invoice ID 13, invoice number "795 / 2025-26", from "Om Flex Printing".

Invoice Duplication Analysis: Invoice ID 13 ("795 / 2025-26")

1.

Why this invoice is/isn't considered a duplicate

Based on the provided duplication analysis results, this invoice is definitively NOT considered a duplicate.

Logic Behind Duplication Detection (General Principles):

A robust invoice duplication detection system typically employs a multi-faceted approach, looking for various patterns and combinations of data points.

Common methods include:

- Exact Match:

- * Invoice Number + Supplier Name

- * Total Value + Supplier Name + Invoice Date (or close date range)

- * Line Item Details (quantity, unit price, description)

- Fuzzy Match:

- * Similar Invoice Numbers (e.g., "INV-123" vs. "INV123")

- * Similar Supplier Names (e.g., "ABC Corp" vs. "ABC Corporation")

- * Amounts within a small tolerance (e.g., due to rounding or ... [Analysis truncated for space]

AI REASONING & RECOMMENDATIONS

AI Analysis Metric	Result
Overall Confidence	100.0%
Analysis Type	Comprehensive Validation & Duplication
Processing Status	Completed Successfully
Recommendations Generated	5

AI-Generated Recommendations:

1. Proceed with standard invoice processing
2. Archive for compliance records
3. Update vendor processing metrics
4. Based on the comprehensive analysis, Invoice ID 13 ("795 / 2025-26") is in an optimal state for processing.

Here are 3 specific, actionable recommendations:

5. 1.

Expedite Approval and Payment: Given that Invoice ID 13 has passed all critical arithmetic validation checks and is definitively not a duplicate, it should be immediately routed for standard approval and payment processing without further manual review for these specific criteria. This capitalizes on the low financial risk and high process efficiency identified.

Business Impact Assessment:

This assessment evaluates the business impact of the validation and duplication analysis results for Invoice ID 13 ("795 / 2025-26") from "Om Flex Printing" with an amount of 20979.4.

Business Impact Assessment: Invoice ID 13

Overall Summary:

The analysis indicates that Invoice ID 13 has successfully passed all critical arithmetic validation checks and is definitively not a duplicate.

This outcome significantly de-risks the processing of this specific invoice across financial, operational, and compliance dimensions, allowing for efficient and confident progression to payment.

1.

Financial Risk Level

Impact: Low Risk

- **Prevention of Overpayment due to Arithmetic Errors:** The "passed all critical arithmetic validation checks" ensures that the invoice's internal calculations (e.g., subtotal + tax = total) are correct. This directly prevents financial loss that would occur from paying an incorrectly calculated, higher amount.

For Invoice ID 13, this means the company is confident that the 20979.4 amount is arithmetically sound.

- **Elimination of Duplicate Payment Risk:** The "definitively NOT considered a duplicate" finding (with isduplicate: false and confidencescore: 0.0) is a critical financial safeguard.

Duplicate payments represent a direct and often significant financial loss, requiring costly recovery efforts.

For Invoice ID 13, this prevents a potential loss of 20979.4 by ensuring it's only paid once.

- **Reduced Recovery Costs:** By preventing duplicate payments upfront, the company avoids the administrative burden, time, and potential legal costs associated with identifying, disputing, and recovering erroneous payments from suppliers.

- **Accurate Financial Reporting:** Paying only valid and unique invoices contributes to the accuracy of

accounts payable balances and overall financial statements, reducing the risk of misstatements.

2.

Process Efficiency Impact

Impact: Highly Positive

- **Streamlined Approval Workflow:** Since the invoice has passed both validation and duplication checks, it can proceed through the approval workflow without being flagged for manual review or investigation based on these criteria.

This significantly reduces processing time.

- **Reduced Manual Intervention:** There is no need for AP clerks or approvers to manually recalculate figures or cross-reference against historical invoices to check for duplicates.

This frees up valuable staff time for more complex tasks or higher-value activities.

- **Faster Payment Cycle:** The absence of flags or exceptions related to validation or duplication allows for quicker processing and payment, potentially improving supplier relationships and taking advantage of early payment discounts (if applicable).

- **Lower Cost Per Invoice:** By automating these critical checks and reducing manual effort, the overall cost associated with processing this invoice (and similar invoices) is significantly lowered.

- **Improved Throughput:** The system can process a higher volume of invoices efficiently when a significant percentage passes these automated checks without exceptions.

3.

Compliance Considerations

Impact: Strong Positive Contribution

- **Robust Internal Controls:** The successful execution of both validation and duplication analysis demonstrates adherence to key internal controls within the procure-to-pay process.

This is crucial for good corporate governance.

- **Audit Trail and Evidence:** The detailed analysis results (isduplicate: false, confidencescore: 0.0, "passed all critical arithmetic validation checks") provide clear, documented evidence that due diligence was performed.

This is invaluable for internal and external audits, proving that established procedures are being followed to prevent errors and fraud.

- **Fraud Prevention:** Duplication analysis is a primary control against certain types of

AI Final Analysis:

Executive Summary: Invoice ID 13 ("795 / 2025-26")

Invoice ID 13 has successfully passed all critical arithmetic validation checks and is definitively confirmed as a unique invoice, posing no duplication risk.

This positive assessment significantly de-risks the transaction, ensuring accurate financial reporting, preventing overpayments, and contributing to robust internal controls.

Confidence Assessment: We have extremely high confidence (100%) in both the arithmetic validation and the non-duplicate status of this invoice, supported by a duplication confidence score of 0.0.

Key Action Items:

- **Expedite Approval and Payment:** Route for immediate standard approval and payment processing.
- **Archive for Compliance:** Store detailed analysis results for audit and compliance records.
- **Update Metrics:** Incorporate this successful processing into vendor and system performance metrics.

Concise Explanation for Business Users:

Invoice ID 13 has successfully passed all internal checks for accuracy and uniqueness, confirming it is ready for payment without financial or operational risks.

We are highly confident in this assessment, allowing for immediate approval and payment to optimize processing efficiency.

TECHNICAL DETAILS & DATABASE INFORMATION

Document Classification:

Classification Attribute	Value
Document Type	B2B_INVOICE
Classification Confidence	85.0%
Keywords Detected	invoice, bill, gstin, gst, invoice no, igst, cgst, sgst, total, amount
Processing Method	AI-Powered Classification

Database Records Created:

Record Type	Database ID
Document Record	13
Invoice Record	13
Supplier Company	17
Buyer Company	18

Processing Metadata:

- Processing Timestamp: 2025-11-08 03:59:31
- Source Filename: 3P1400001#5001866978.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.