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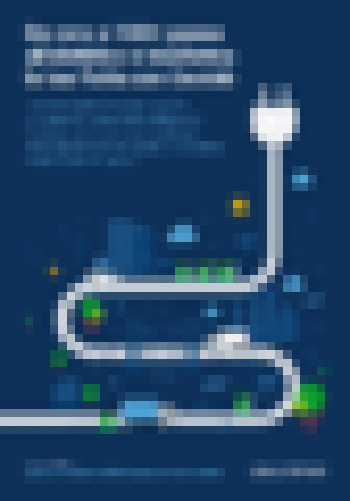

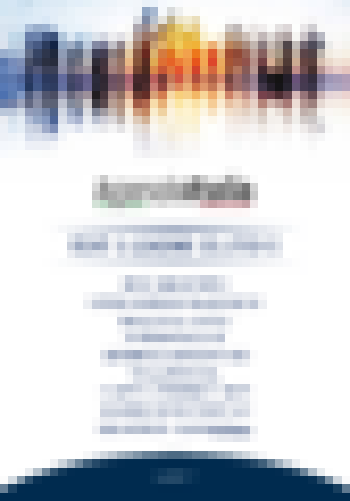

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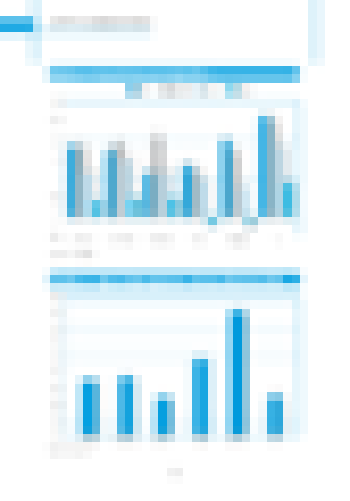

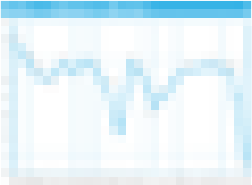

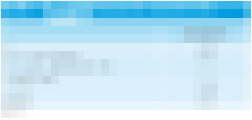

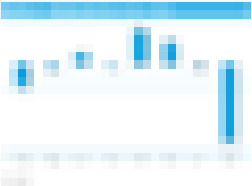

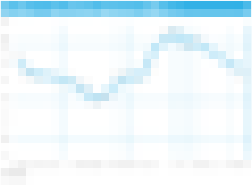

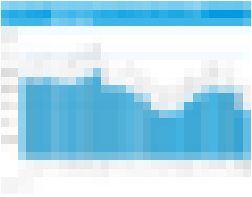

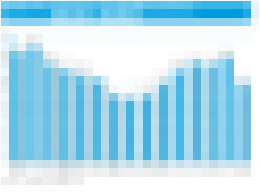

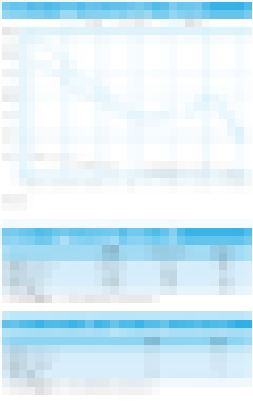

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Table 1. Sample Mean Values of Variables in Estimation Models, Sample Period

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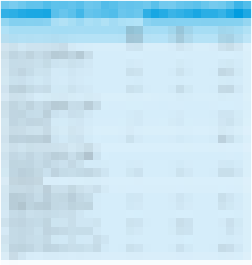
Cash and cash equivalents comprise cash balances and call deposits. The carrying amount of these assets approximates their fair value.

Cash and cash equivalents	1,234	1,234	1,234
Trade receivables, net	4,567	4,567	4,567
Other receivables	1,234	1,234	1,234
Derivatives	1,234	1,234	1,234
Other financial assets	1,234	1,234	1,234
Total financial assets	1,234	1,234	1,234
Financial liabilities			
Trade payables	1,234	1,234	1,234
Other payables	1,234	1,234	1,234
Derivatives	1,234	1,234	1,234
Other financial liabilities	1,234	1,234	1,234
Total financial liabilities	1,234	1,234	1,234
Total	1,234	1,234	1,234



4. Cash and bank balances

Cash and bank balances comprise cash in hand, current accounts, deposits with banks and other financial institutions, and other short-term highly liquid investments with original maturities of three months or less. The carrying amount of these assets approximates their fair value. Cash and bank balances are subject to an immaterial expected credit loss under IFRS 9 and are not impaired. Restricted cash of $ 1,200 million (2023: $ 1,150 million) relates to collateral held against derivative liabilities and is not available for general use.

Cash and bank balances	2024	2023
	$	$
Cash in hand	1,180	1,140
Current accounts	4,210	3,860
Deposits with banks and other financial institutions	6,420	5,310
Other short-term highly liquid investments	2,150	1,890
Restricted cash	1,200	1,150
Cash and bank balances	15,160	13,350
Bank overdrafts	(1,240)	(1,180)
Cash and cash equivalents	13,920	12,170

Consolidated Income Statement

Revenue increased by 12% to $4,210 million, driven by volume growth in the Asia-Pacific region and price realisation in the North American segment. Cost of sales increased by 9%, reflecting higher raw material costs and the impact of the new production line commissioned in Q3. Gross margin improved from 41.2% to 42.8%.

Item	Note	2024	2023	Change
Revenue	2	4,210	3,760	12%
Cost of sales	3	(2,408)	(2,210)	9%
Gross profit		1,802	1,550	16%
Selling and distribution expenses	4	(612)	(540)	13%
Administrative expenses	5	(318)	(295)	8%
Other operating income	6	41	38	8%
Operating profit		913	753	21%

Selling and distribution expenses increased by 13% to $612 million, reflecting the expansion of the sales force in the Asia-Pacific region and increased digital marketing spend. Administrative expenses increased by 8% to $318 million, including the impact of the new enterprise resource planning system implemented in January 2024.

Other operating income includes gain on disposal of property, plant and equipment of $12 million and foreign exchange gains of $29 million. Operating profit increased by 21% to $913 million, representing an operating margin of 21.7%.

Item	2024	2023
Profit before tax	913	753
Income tax expense	(228)	(188)
Profit after tax	685	565

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3.2 Missing Data Handling Approaches

Missing data is a pervasive problem in real-world datasets, and how you handle it can dramatically influence the validity of your analysis. Sensors fail, survey respondents skip questions, and merging datasets from different sources leaves gaps where information should be. The first step is always to understand why the data is missing and how much of it is missing. Only then can you choose a strategy that preserves the integrity of your conclusions.

Pandas represents missing values using `NaN` (Not a Number) for numeric columns and `None` for object columns. The `isnull()` and `notnull()` methods return boolean masks that flag missing entries, and `.sum()` applied to those masks gives you a count per column. Combining `df.isnull().sum()` with `df.shape[0]` gives you the percentage of missing data at a glance. Rows with more than 30% missing values are candidates for removal, while columns with more than 50% missing values rarely carry enough information to be useful.

Strategy	Pros	Cons	When to use
Drop rows	Simple, preserves distribution	Loses data, biases if not random	Few missing values (<5%)
Drop columns	Removes noise	Loses entire variable	Mostly missing (>50%)
Mean imputation	Preserves sample size	Reduces variance, distorts correlations	Numeric, symmetric distribution
Median imputation	Robust to outliers	Reduces variance	Numeric, skewed distribution
Mode imputation	Preserves categories	Biases toward common values	Categorical variables
Forward fill	Preserves time order	Assumes last value persists	Time series with slow changes
Interpolation	Smooth estimates	Assumes linear relationship	Time series, sensor data
Model-based imputation	Uses other variables	Complex, risk of circularity	Large datasets, complex patterns

Cash flows

Cash flows are presented in the statement of cash flows on a net basis, unless they are presented on a gross basis in accordance with the requirements of the International Financial Reporting Standards, or they arise from transactions in which the Company is acting as a clearing house for its customers. Examples of cash flows presented on a net basis include deposits and withdrawals from banks, deposits and withdrawals from clients and loan and repayments of clients. Cash flows arising from derivatives are also presented on a net basis. Cash flows arising from changes in fair value of hedged items are not reported separately from cash flows from the underlying hedged items. Cash flows from transactions in foreign currencies are converted into euro at exchange rates at the date of the cash flow. Cash flows from foreign subsidiaries are converted into euro at average exchange rates for the period.

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3.1 Hash Tables: Insert, Lookup, and Collision Resolution

Hash tables provide average-case constant time for insertion, lookup, and deletion by mapping keys to array indices through a hash function. The quality of the hash function determines how evenly keys distribute across the array, and poor distribution leads to collisions that degrade performance to linear time. Open addressing stores all elements in the array itself and resolves collisions by probing alternate slots, while chaining stores a linked list at each bucket. Load factor, the ratio of stored elements to array size, controls when the table must resize to maintain performance.

Operation	Average	Worst	Space	Notes
Insert	O(1)	O(n)	O(n)	Amortized for resizing
Lookup	O(1)	O(n)	O(n)	Depends on hash quality
Delete	O(1)	O(n)	O(n)	Tombstones in open addressing
Resize	O(n)	O(n)	O(n)	Triggered at load factor 0.75

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Exercises

1. Consider the following data set consisting of the test scores of 10 students in descending order. Suppose the instructor of the class has decided to give extra credit to the top 25% of the students. What is the minimum score a student must have in order to receive extra credit?

158	172	174	175	176	179	179	180	182	184

Statement of Profit and Loss

Gross revenue increased by 12% to ₹ 1,240 crore, driven by volume growth in the Industrial segment and a favourable mix shift toward higher-value specialty products. Domestic revenue grew 9% and export revenue grew 18%, with the export share now at 41% of total revenue. Average realisation per tonne rose 4% after price revisions effective from April and October.

Raw material consumption increased by ₹ 78 crore, primarily on account of higher procurement volumes and a 6% rise in average input cost. Employee benefit expense increased by ₹ 14 crore on account of annual increments and the addition of 38 employees in the sales and technical service functions. Depreciation increased by ₹ 9 crore following the capitalisation of the new packing line at the Kolhapur plant.

Finance costs reduced by ₹ 3 crore on account of lower average borrowing and a 0.4% reduction in the weighted average interest rate. Other income includes ₹ 2.1 crore of interest on fixed deposits and ₹ 0.6 crore of foreign exchange gain on export receivables.

Particulars	Q1	Q2	Q3
Revenue from operations	312	318	324
Other income	2.1	2.4	2.6
Total income	314.1	320.4	326.6
Cost of materials consumed	188	191	195
Employee benefit expense	41	42	43
Depreciation	9	9	9
Finance costs	3	3	3
Other expenses	52	53	54
Profit before tax	21.1	22.4	22.6
Tax expense	5.3	5.6	5.7
Profit after tax	15.8	16.8	16.9
Earnings per share (₹)	3.2	3.4	3.4

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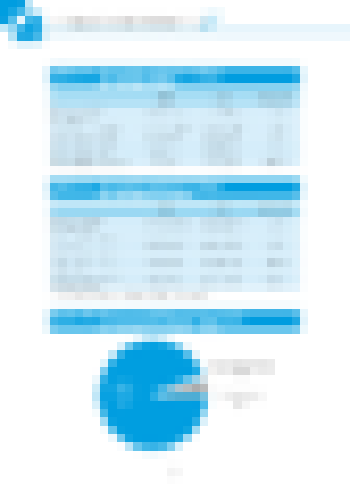

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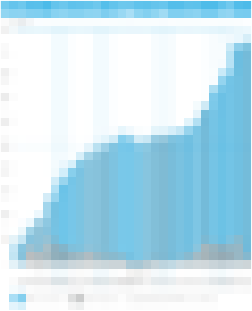

Table 3.1 Distribution of Respondents by Gender, Age Group and Occupation

Gender	Age Group	Occupation	Frequency	Percentage
Male	18–25	Student	42	8.4%
		Employed	18	3.6%
	26–35	Employed	61	12.2%
		Self-employed	27	5.4%
	36–45	Employed	58	11.6%
		Self-employed	24	4.8%
	46–55	Employed	31	6.2%
		Self-employed	12	2.4%
	56–65	Employed	9	1.8%
		Self-employed	4	0.8%
Female	18–25	Student	38	7.6%
		Employed	16	3.2%
	26–35	Employed	54	10.8%
		Self-employed	22	4.4%
	36–45	Employed	49	9.8%
		Self-employed	19	3.8%
	46–55	Employed	28	5.6%
		Self-employed	11	2.2%
	56–65	Employed	7	1.4%
		Self-employed	3	0.6%

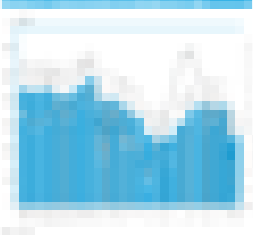

Figure 3.1 Distribution of Respondents by Gender and Age Group

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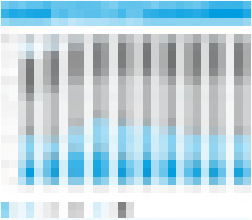

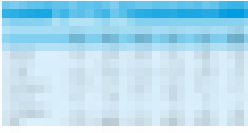

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Table 1

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Note 1

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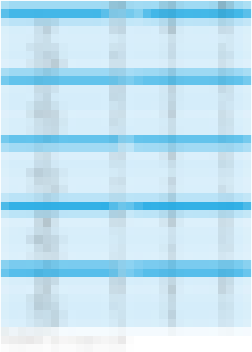

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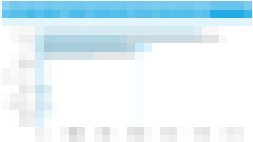

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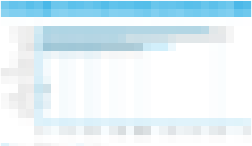

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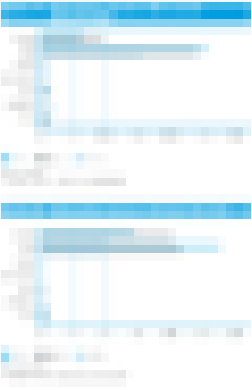

1.1 Introduction

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