JCRT.ORG

ISSN: 2320-2882



INTERNATIONAL JOURNAL OF CREATIVE **RESEARCH THOUGHTS (IJCRT)**

An International Open Access, Peer-reviewed, Refereed Journal

An Empirical Study On Ratio Analysis With Reference Suman And Co

1Chandrapani D.K, 2REKHA GOTHE

1 UG student, 2Faculty of Commerce and Management

1PES university,

2PES UNIVERSITY

Abstract

This empirical study conducts a comprehensive ratio analysis to evaluate the financial performance of Bosch Ltd over a five-year period, with reference to Suman and Co as a benchmark. The analysis covers liquidity ratios, profitability ratios, leverage ratios, and other key financial metrics to gain insights into Bosch's financial health and resilience. The findings reveal a nuanced picture of Bosch's performance, highlighting both strengths and areas for improvement.

One of the key findings of the study is a slight decline in Bosch's current ratio over the five-year period. This decline suggests potential liquidity challenges for the company, indicating a decreased ability to cover short-term liabilities with current assets. Such findings emphasize the importance of closely monitoring liquidity ratios to ensure the company's ability to meet its short-term obligations efficiently.

Moreover, significant fluctuations in Bosch's net profit ratio were observed during the study period. These fluctuations underscore the importance of closely monitoring profitability factors and implementing strategies to maintain or improve profitability levels. By understanding the drivers behind these fluctuations, Bosch can better manage its resources and operations to enhance overall profitability.

Additionally, the study identifies a decreasing trend in Bosch's quick ratio over the five-year period. The quick ratio, which excludes inventory from current assets, highlights the company's ability to meet shortterm liabilities using its most liquid assets. The decreasing trend in this ratio underscores the need for Bosch to optimize its inventory management practices and implement effective liquidity strategies to maintain financial health.

© 2024 IJCRT | Volume 12, Issue 5 May 2024 | ISSN: 2320-2882

www.ijcrt.org

Despite these challenges, Bosch maintains a generally healthy liquidity position and stable capital structure.

The study acknowledges the company's resilience in navigating through financial challenges and highlights

its ability to maintain financial stability over the years.

Based on the findings, the study proposes several recommendations for Bosch to enhance its financial

performance and resilience. These recommendations include continued monitoring of financial metrics,

targeted strategies to address weaknesses identified in the analysis, and leveraging strengths to capitalize

on growth opportunities. Furthermore, benchmarking against industry standards, such as Suman and Co,

is recommended to provide valuable insights for informed decision-making and strategic planning.

Keywords: Financial analysis, Ratio analysis, financial statements.

INTRODUCTION ABOUT FINANCIAL STATEMENT

A financial statement is a systematic accounting method used to provide a snapshot of a company's

financial situation. It aims to present data in a clear and logical manner for analysis. Financial statements

are influenced by various factors, such as recorded facts, accounting policies, personal decisions, opinions,

and conventions.

Recorded facts refer to the information documented in financial records, while accounting conventions

involve the application of fundamental accounting principles. The 'conservatism' convention takes into

account anticipated losses but disregards expected profits, ensuring a company's actual financial position

may be more conservative than what is indicated in its income statement. Personal judgments can also

significantly impact financial statements, such as the choice of depreciation method or the decision to

amortize intangible assets.

In India, financial statements are prepared and presented in accordance with legal requirements, but

some important information may not be disclosed. Financial statements are not customized to meet the

specific requirements of individual users, making them incapable of meeting their unique information

needs.

To analyse income statements, companies typically employ three categories of financial analysis

techniques: cross-section, time series, and cross-section cum time series analysis. Cross-section

comparison involves comparing the financial indicators of a related company to evaluate profitability,

while time series analysis examines the relationships between different financial statements and draws

13CR

comparisons and conclusions. Cross-section cum time series analysis is the most effective way of evaluating financial accounts, and the income statement is used to assess the financial position.

RATIO ANALYSIS

Ratio analysis is a method used by external analysts to evaluate a company's financial performance, including profitability, liquidity, and solvency. It involves analysing financial data from a company's financial statements, relying on current and previous statements to determine a company's financial situation. Ratios are mathematical connections between two related objects expressed in quantitative form. These connections can be described using proportion, frequency, or percentage. The sum of two things represented in the common denominator is in proportion. Ratios are expressed in times and turnover, and the quotient is obtained by dividing one element by another and multiplying by one hundred.

OBJECTIVES

- Allows investors to invest in the company and make decisions to make successful investments.
- It is used to assess the company's success and to calculate its productivity.
- It is used to monitor the entire management distribution region.
- Pattern, revenue, lost profits, and other related information.

Uses of Ratio Analysis:

Comparison:

- Compares a company's financial performance with similar companies in the industry.
- Identifies market opportunities and assesses strengths and weaknesses.
- Utilized by management to enhance market position.

Trend Analysis:

- ➤ Determines if financial performance is improving or declining over time.
- Helps in forecasting future financial outcomes.
- Identifies potential risks or opportunities.

Operational Efficiency:

- Evaluates effectiveness in managing assets and liabilities.
- Minimizes avoidable costs from inefficient asset use.
- Determines over or underutilization of financial resources.

Types of Ratios:

Current Ratio: Current Ratio=Current Assets / Current Liabilities.

- The current ratio is a financial metric used to evaluate a company's ability to meet short-term obligations.
- It's calculated by dividing current assets by current liabilities, indicating the company's liquidity position.
- A ratio above 1 suggests the company has more current assets than current liabilities, implying sufficient liquidity.
- Conversely, a ratio below 1 indicates potential liquidity issues, as current liabilities exceed current assets.

Equity Ratio: Equity Ratio=Total Equity / Total Assets.

- The equity ratio is a financial metric used to assess a company's financial health and risk management.
- It represents the proportion of total assets financed by shareholders' equity rather than debt.
- Calculated by dividing shareholders' equity by total assets, it indicates the extent to which a company relies on equity to fund its operations and growth.
- A higher equity ratio suggests a lower financial risk, as it implies less reliance on debt financing, while a lower ratio may indicate higher financial leverage and potential risk.

Quick Ratio: Quick ratio=Total Current Assete-Inventry / Current Liability.

- Quick Ratio, also known as Acid-Test Ratio, is a financial metric used to evaluate a company's short-term liquidity.
- It measures a company's ability to meet its short-term obligations using its most liquid assets, excluding inventory.
- Quick Ratio is calculated by dividing the sum of cash, marketable securities, and accounts receivable by current liabilities.
- A higher Quick Ratio indicates stronger short-term liquidity and suggests a company can meet its obligations without relying heavily on inventory sales.

Net Profit Ratio: Net Profit Ratio=Net Profit / Net Sales * 100.

- Net Profit Ratio is a financial metric used to measure a company's profitability.
- It is calculated by dividing the net profit after taxes by the net sales revenue.

- This ratio indicates the portion of each dollar of revenue that translates into profit.
- A higher net profit ratio signifies better efficiency in generating profits from sales.

Debt to Equity Ratio: Debt to Equity Ratio=Total Debt / Total Equity Shareholders.

- The debt-to-equity ratio is a financial metric used to evaluate a company's leverage by comparing its total debt to its shareholders' equity.
- It's calculated by dividing total liabilities (debt) by shareholders' equity, often expressed as a percentage or decimal.
- A higher ratio indicates that a company relies more on debt financing, which can increase financial risk but also potentially amplify returns.
- Conversely, a lower ratio suggests a more conservative financial structure with less reliance on debt financing.

Debt to Asset Ratio: Debt to Asset Ratio=Total Debt / Total Asset.

- Debt to Asset Ratio is a financial metric used to assess the proportion of a company's assets financed by debt.
- It's calculated by dividing total debt by total assets, expressed as a percentage.
- A higher ratio indicates that a larger portion of the company's assets is funded by debt, which may imply higher financial risk.
- Conversely, a lower ratio suggests a healthier financial position with less reliance on borrowing.

Theoretical Implication of Study

The theoretical implication of financial statement analysis is to provide valuable insights into a company's financial situation and future potential. This analysis aids investors, creditors, financial experts, and others in investing in financial instruments like stocks and bonds by evaluating a company's past, present, and future financial performance, profitability, and potential for return on investment through dividends and market appreciation of stock holdings. Financial ratios are used to evaluate a company's profitability with precision and greater understanding, acting as diagnostic tools that allow business analysts to examine the connections between different financial statement elements.

Financial ratios are commonly used to evaluate a company's financial performance, and they come in three main categories: balance sheet ratios, income statement ratios, and combined ratios. These ratios can be categorized into four types: liquidity ratios, leverage ratios, activity ratios, and profitability ratios. Liquidity ratios indicate a company's ability to meet short-term financial obligations, leverage ratios evaluate a company's funding structure in terms of borrowed funds, activity ratios measure the efficiency of asset management by company management, and profitability ratios compare profit to revenue, assets, and equity to evaluate a company's overall operational success.

In conclusion, financial ratios play a crucial role in assessing a company's financial situation and future potential, but analysts must exercise good judgement when applying analytical techniques to assess a company's financial position, performance, and potential for the future.

Chapter -02

Findings on Various Research Papers Using Financial Ratio Analysis

1. Application of Factor Analysis on Financial Ratios (2011):

- ❖ Analysed 44 financial ratios of 130 Indian cement companies over 10 years.
- Identified eight underlying categories: earnings, liquidity, solvency, profitability, dividend policy, assets management, efficiency, and working capital.
- Utilized multiple regression and cluster analysis for validation.

2. Efficiency and Profitability of Bank Regions (2004):

- Used Data Envelopment Analysis (DEA) to evaluate performance of ten regional offices of a South African bank.
- Improving profitability ratios and allocative efficiency is crucial for optimal input mix.
- Scale efficiency correlates with conventional ratios.

3. Financial Ratios as Predictors of Bankruptcy in Japan (No Date):

- Developed a universal model predicting bankruptcy in Japan with over 86.14% accuracy.
- Model excludes profitability and liquidity ratios.

4. Small Enterprise Default Prediction Modelling (2008):

- Analysed manufacturing firms in Central and Northern Italy to create default prediction models for small enterprises.
- **Economic-financial ratios were effective tools with high accuracy rates.**

5. Nexus of Poverty, GDP Growth, Dependency Ratio, and Employment (2013):

- Explored relationship in developing countries; age dependency ratio significantly impacts poverty.
- Suggested stable economic growth with increased labour productivity for poverty reduction.

6. Determinants of Capital Adequacy Ratio in Egyptian Banks (2015):

- Liquidity, size, and management quality are significant variables for CAR before and after international financial crises.
- Profitability only affects CAR through return on assets.

7. Cash Conversion Cycle of Small Business Firms (1993):

- **Examined liquidity measures and their implications for profitability in small businesses.**
- Cash conversion cycle negatively correlated with current ratio and inventory conversion period.

8. Relationship between Financial Efficiency Ratios and Stock Prices (2015):

- Explored correlation between efficiency ratios and stock prices in insurance companies listed in Borsa Istanbul.
- Profitability ratios emerged as the best fit model.

9. Financial Performance of ICICI Bank - A Comparative Analysis (2014):

Suggested measures to maintain financial performance including current ratio, controlling NPAs, and leverage.

10. Insurance Sector Analysis in Turkey (2017):

- Analysed profitability ratios and turnover in Turkey's insurance sector.
- Life insurance companies generally had positive profitability ratios.

Research Gap

The research gap identified from the summary of papers on financial ratio analysis is the lack of comprehensive studies that integrate various methodological approaches and examine their effectiveness across different sectors and regions. Specifically:

1. Integration of Methodological Approaches:

Many studies focus on specific methodologies such as factor analysis, discriminant analysis, or regression analysis in isolation. There's a gap in research that integrates multiple methodologies to provide a more holistic understanding of financial ratio analysis and its implications.

2. Sector and Regional Variations:

Existing research predominantly focuses on specific industries or regions, limiting the generalizability of findings. There's a gap in comprehensive studies that examine financial ratio analysis across diverse sectors and regions to identify common patterns and unique variations.

3. Emerging Trends and Technologies:

With the advancement of technology and availability of big data analytics, there's a gap in research that explores the integration of emerging technologies like machine learning and artificial intelligence in financial ratio analysis for enhanced prediction and decision-making.

4. Longitudinal Studies:

Many studies provide insights based on cross-sectional data or short-term analyses. There's a gap in longitudinal studies that track financial ratio trends over an extended period to assess long-term performance and identify dynamic patterns.

5. Comparative Analysis:

While some studies compare financial ratios across companies or industries, there's a gap in comparative analysis that extends beyond traditional financial metrics to include non-financial factors such as environmental, social, and governance (ESG) criteria, providing a comprehensive evaluation of performance.

6. Practical Implications and Implementation:

Existing research often focuses on theoretical frameworks and analytical techniques, with limited emphasis on practical implications and implementation strategies for stakeholders such as investors, managers, and policymakers. There's a gap in research that bridges the gap between theory and practice, offering actionable insights for decision-makers.

Addressing these research gaps would contribute to advancing the understanding and application of financial ratio analysis in various contexts, fostering informed decision-making and improving financial performance evaluation methodologies.

SI. No	Title of the paper	Name of the	Author	Year of Publicatio n	Issue / Volume	Page No.	Brief of the paper (60 to 80 words)	Takeaway (30 to 50 words)
1	Application of the	Journal c	f A <mark>nupam De,</mark>	2011	ISSN	19	This study uses Factor	The study
	Factor Analysis on	Business	Ga <mark>utam</mark>		2152-		Analysis to analyse	analysed 44
	the Financial	Studies	Bandyopadhy,		1034/Vol.		audited financial data	financial ratios of
	Ratios and	Quarterly	B.N.		2		of selected cement	130 Indian cement
	Validation of the		Ch <mark>akrabo</mark> rty				companies in India	companies over 10
	Results by the						over a 10-year period.	years, identifying
	Cluster Analysis:						The analysis identifies	eight underlying
	An Empirical Study						8 underlying	categories:
	on the Indi <mark>an</mark>						categories (factors)	earnings and
	Cement Industry						based on empirical	profitability,
							evidence. The study	liquidity, cash
							excludes variables	balance, long-
		Sec. 16.					with low inter-	term solvency,
						12	correlation and	capital structure,
							conducts multiple	profitability,
							regression analysis on	dividend policy,
							the remaining 25	assets
							variables. The results	management,
							are validated through	operating
							cluster analysis,	efficiency, and
							where representative	working capital
							ratios are identified	productivity.
							for each factor.	

				•				
2	An empirical study	Journal of the	M	2004	Issu 1:	14	Bank managers often	Bank regions'
	on measuring	school if	Oberholzer, G		volume		compare their bank's	performance
	efficiency and	accounting of	van der		12.		return on equity or	should be
	profitability of	sciences	Westhuizen.				return on assets to	evaluated using
	bank regions						their peers,	conventional
							identifying high-	financial
							performance banks	statement analysis
							based on these ratios.	and DEA.
							However, this	Improving
							approach relies on	profitability ratios
			V 1				comparable ratios,	and allocative
							making it difficult to	efficiency is crucial
			The state of the s				find suitable	for optimal input
							standards. Data	mix. Scale
						4	Envelopment Analysis	efficiency, a DEA
							(DEA) is a tool that	measurement,
	_						can compensate for	correlates with
		4.00					these weaknesses,	conventional
							evaluating the	ratios, ensuring
							performance of ten	optimal
							regional offices of a	operations.
		والاقلعما					South African bank.	
3	Financial Ratios as	-	Cindy Yoshiko	- \	-	18	The Japanese	This paper
	Predictors of		Shirata				economy has been	presents a more
	Bankruptcy in						struggling since the	accurate model for
	Japan: An						1990 bubble burst,	predicting
	Empirical Research						leading to financial	bankruptcy in
							difficulties for many	Japan firms,
							companies. A	excluding
							prediction model is	profitability and
							needed to assess	liquidity ratios,
							these firms' financial	and showing that
							distress. This study	these factors do

VV VV VV .1	crt.org	<u> </u>	2024 IJCKI VOIC	ille 12, 155ue	3 Way 2024	133N. 2320	J-200Z	
4	Using Economic- Financial Ratios for	Oxford Business	Prof. Francesco	2008	ISBN: 978-0-	21	presents empirical results on financial ratios as predictors of Japanese corporate failure, demonstrating that a universal model can predict bankruptcy with over 86.14% accuracy, regardless of industry or size. This model is independent of sample size. Previous research on company default	not reveal financial distress. The study manufacturing
	Small Enterprise Default Prediction Modelling: An Empirical Analysis		Ciampi, Niccolò Gordin		9742114-7-3		prediction statistical modelling has shown effectiveness in using economic-financial ratios for small enterprises (SEs). This study focuses on small manufacturing firms in Northern and Central Italy, revealing that discriminant analysis and logistic regression are effective tools for designing SEs default prediction models. The models gain	firms in Central and Northern Italy to create prediction models for SE default. Results showed economic-financial ratios were effective tools, with high accuracy rates. The study emphasizes the need for diverse models.

***************************************	Juli.org		2024 IJCK I VOIU	1110 12, 10000	o may zoz i i	COIT. LOL	7 2002	
5	An Empirical	Journal of	Vijayakumar	2013	Vol. 5,	16	accuracy when constructed for separate business sectors and company size groups. This study examines	The paper
	Study on the Nexus of Poverty, GDP Growth, Dependency Ratio and Employment in Developing Countries	Competitivenes			Issue 2		the relationship between poverty, economic growth, employment, and dependency ratio in developing countries. It uses cross-country data from 41 countries in Asia, Latin America, and Sub-Saharan Africa. The results show that age dependency ratio significantly impacts poverty, while industrial employment has a negative association. The study suggests stable economic growth with increased labour productivity and labour-intensive technology as an active solution to poverty.	examines the relationship between poverty, economic growth, employment, and dependency ratio in developing countries like Asia, Africa, and Latin America. It reveals that age dependency ratio significantly impacts poverty and has a positive association with poverty. The study suggests policymakers focus on population control and active population generation.

	je: 1.0. g		1			0011. 2020		
6	DETERMINANTS	Corporate	Osama A. El-	2015	Volume	11	This paper examines	The paper
	OF CAPITAL	Ownership &	Ansary*,		13, Issue 1		the factors	examines the
	ADEQUACY RATIO:	Control	Hassan M.				influencing capital	capital adequacy
	AN EMPIRICAL		Hafez				adequacy ratio (CAR)	ratio in Egyptian
	STUDY ON						in Egyptian	commercial banks,
	EGYPTIAN BANKS						commercial banks	revealing that
							from 2004-2013. The	profitability
							study covers 36 banks	doesn't affect it
							and examines the	except for return
							relationship between	on assets. Asset
			V 1				CAR and independent	quality negatively
							variables like earning	correlates with the
			7				assets ratio,	ratio, suggesting
							profitability, liquidity,	further research is
						<i>(</i> 3	loan loss provision,	needed.
							net interest margin	
							growth, size, loans	
							assets ratio, and	
							deposits assets ratio.	
							Results show that	
							liquidity, size, and	
							management quality	
						12	are the most	
							significant variables	
							for CAR before and	
							after international	
							financial crises.	
7	An Empirical		Lyroudi,	1993	Vol. 2, Is.	24	The purpose of this	The study
	Investigation of	SMALL	Katerina;		2		study is to examine	examines liquidity
	the Cash		McCarty, Dan				the cash conversion	measures, current
	Conversion Cycle	FINANCE					cycle as an indicator	and quick ratios,
	of Small Business						of the company's	and cash
	Firms						liquidity, to	conversion cycle in

						determine the relationship of the cash conversion cycle with the current and the quick ratios and with its component variables, and to investigate the implications of the cash conversion cycle for small businesses in terms of profitability and firm size.	small businesses. It reveals that sales and working capital variables can impact liquidity and profitability ratios, with cash conversion cycle negatively correlated with current ratio and inventory conversion period.
8	THE		Rafet AKTAŞ*	2015	16	This study examines	The study
	RELATIONSHIP		Sey <mark>fettin</mark>			the relationship	explores the
	BETWEEN		ÜNAL			between financial	correlation
	FINANCIAL	and the same				efficiency ratios and	between stock
	EFFICIENCY					stock prices of	prices and
	RATIOS AND	CO day				publicly traded	efficiency of
	STOCK PRICES: AN EMPIRICAL				/. 1	insurance firms in Borsa Istanbul. The	insurance companies in
	INVESTIGATION					study uses three sets	companies in Borsa Istanbul,
	ON INSURANCE			1	10	of efficiency ratios -	revealing a
	COMPANIES					cost, revenue, and	significant
	LISTED IN BORSA					profit efficiency - as	relationship
	ISTANBUL					proxy and runs a	between efficiency
						regression analysis	ratios and stock
						against stock prices.	prices, aiding in
						The results show	improving
						statistically significant	efficiency and
						relationships	investor insights.
						between the ratios	

VV VV VV .1	jert.org	● 2	2024 IJCK I VOII	unie 12, issue	3 May 2024 1	133I4. Z3ZC	J-2002	
							and stock prices, with profitability ratios emerging as the best fit model. The findings have significant implications for insurance firms and investors.	
9	AN EMPIRICAL STUDY OF FINANCIAL PERFORMANCE OF ICICI BANK- A COMPARATIVE ANALYSIS	Journal of Business Studies (JBS_)	Ms. Shikha Gupta	2014	Vol. 1, Issue 1	13	Financial performance is crucial for effective decision-making in the banking sector, especially in India. The Industrial Credit and Investment Corporation of India (ICICI) Bank, the second largest bank in India, is deeply involved in human and economic development. The bank offers a wide range of banking products and services, including investment banking, asset management, venture capital, and insurance. This research paper aims	ICICI bank must maintain current ratio and Quick ratio, control NPAs over 1%, control leverage to increase DP ratio, and control spread to avoid long-term income loss from interest expenses, while maintaining long-standing earnings per share.

	or tion g		-02 1 10 0 1 1 1 1 1 1 1	1110 12, 10040	·			
							to analyse and compare the financial performance of ICICI Bank, focusing on operational control, profitability, and solvency, and offer suggestions for improving efficiency.	
10	Insurance Sector	European	Hasan Metin,	2017	Volume	14	This study examines	The study
	Analysis in Turkey:	Journal of	PhD		3, Issue 3		the relationship	explores insurance
	An Empirical Study	Economics and	Gjy <mark>lbehare</mark>				between employee	and risk concepts,
		Business Studie	Lla <mark>pi, M</mark> Sc				turnover in insurance	historical
			Armend				companies in Turkey	background,
			Mu <mark>ja, MSc</mark>			<u> </u>	and three	profitability ratios,
							independent	and turnover in
							variables: the ratio of	Turkey's insurance
		and the					staff with a Bachelor's	sector. It finds that
							degree, the ratio of sales department	life insurance
							sales department crew, and the ratio of	companies generally have
						/ 1	male salespeople.	positive
							Results show that the	profitability ratios,
				1		10	ratio of male	while elementary
							salespeople	insurance
							negatively affects	companies have
							average turnover,	fluctuating profits.
							while the ratio of BA	
							degree staff positively	
							affects it. The study	
							also provides a	
							summary of	
							insurance and risk	

www.	jcrt.org	© 2	2024 IJCRT Volu	ime 12, issue	5 May 2024 I	ISSN: 2320	-2882	
							concepts and analyses profitability ratios for the last decade.	
11	Measurement of Financial Soundness of Life Insurance Companies in Bangladesh: An Empirical Study	A Journal of Business Administration Discipline	Dr. Razu Ahmed1 and Dr. Shakhawat Hossain Sarkar2	2019	Volume: 14	15	The study measures the financial soundness of life insurance companies in Bangladesh using CARAMELS ratio analysis and multiple discriminate analysis. Results show a decreasing trend in the capital adequacy ratio, reinsurance participation, and expense ratios exceeding the Insurance Development and Regulatory Authority standard. All selected companies hold more liquid assets than necessary, and Z scores indicate a potentially unhealthy financial health. This study is the first of its kind in Bangladesh, focusing on the financial health of life	The study reveals that expense ratio, claims ratio, and liquidity ratio significantly impact the financial soundness of insurance companies in Bangladesh. To improve management, strategic steps like cost reduction, HRD programs, and risk assessment should be implemented. Future research should measure performance and customer satisfaction.

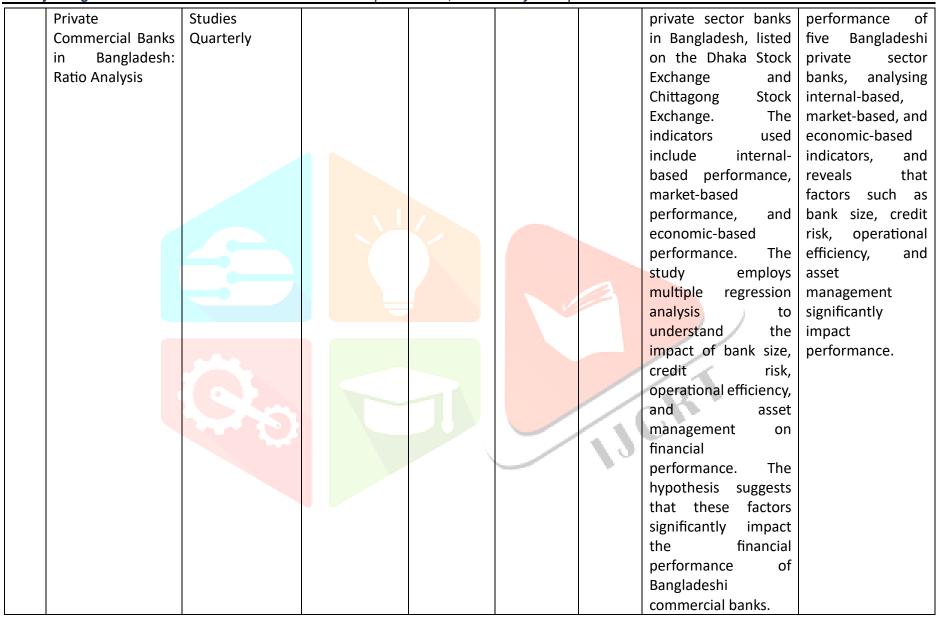
1	1		1	1			•	
							insurance	
							companies.	
12	Effects of	-	Hartiny Pop	2022	-	11	This research	The research
	Financial Ratios in		Koapaha				examines the effects	shows that the
	Early Warning						of financial ratios in	claim expense
	System and Macro						Early Warning	ratio has no effect
	- Economic to						Systems (CSR) on	on stock returns,
	Stock Returns						insurance company	while liquidity
	(Empirical Study at						stock returns from	ratio affects stock
	Insurance						2014-2018 in the	returns by 8.36%
	Companies at		\ \ \ I				Indonesia Stock	and SBI interest
	Indonesia Stock						Exchange. The study	rates by 3.52%,
							used a descriptive-	with 88.22%
	Exchange 2014 –						analytical method	influenced by
	2018)						and secondary data,	other factors.
							including financial	
							statements and SBI	
							rate. Results showed	
							that incurred claims	
							liability ratio	
							negatively affects	
							stock returns, liquidity ratio	
				\		10	liquidity ratio positively affects	
							returns, and SBI rate	
							positively affects	
							returns. The study	
							highlights the	
							significant impact of	
							these ratios on	
							insurance company	
							stock returns.	

13	The Effect of	BIRCI-Journal	Wulan	2022	Volume 5	13	This study	The research on
	Financial Ratio in		Mawarti,				investigates the effect	
	Determining		Dumas Angga				of financial ratios on	Indonesian
	Company Value:		Negoro				the firm value of 49	banking
	(Empirical Study						banking companies	companies found
	on Banking						listed on the	that ROE has a
	Companies Listed						Indonesia Stock	positive, partially
	on the Indonesia						Exchange between	significant effect
	Stock Exchange for						2015 and 2019. The	on firm value.
	the 2015-2019						research found that	Loan Deposit Ratio
	Period)		V 1				ROE, Firm Size, and	has a negative,
							CAR ratios positively	partially significant
							affect firm value,	•
							while LDR and NPL	adequacy ratio has
							ratios negatively	= -
							affect it. The study	•
	_						suggests that	value. Non-
							financial ratios can	_
							help companies meet	•
							short-term	negative, partially
							obligations,	significant effect
							particularly in	on company value.
				\		10	strategic decision-	
							making involving	
							investment,	
							profitability, and	
							capital. However, limitations include	
							the research data and	
							time span, and suggestions for future	
							research include	
							longer research	
							iongei research	

	jort.org		2024 1301(1 1010	12, 10040	oay 202 . .	00111 2020	7 2002	
							periods for optimal	
							data accuracy.	
14	Determinants Of	International	Wondwosse	2016	Volume 3	6	The main objective of	Insurance
	Non-Life Insurance				Issue 13		this study was to	
	Companies	Innovative	Daare				identify factors that	3
	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	Research and					determining non-life	8.47 cents per
	Empirical Study in						insurance companies`	rupee of asset
	India	Studies (IJIRAS)					profitability in India.	investment.
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					To achieve the	Factors like size,
							objective financial	capital adequacy,
							report of eight	age, and GDP
							general insurance	positively impact
							companies (2 public	insurance
							and 6 private	profitability, while
						12	companies) collected	capital adequacy,
							from the year 2006 to	premium growth,
							2016. Though the	and inflation
							author tasted eight	negatively affect it.
							variables, company	Inflation is a
							size, liquidity and	significant
							inflation found	macroeconomic
							statistically significant	
						12	factors that	non-life insurance.
						7	determine insurance	
							companies`	
							profitability in India.	
							The study	
							recommended	
							insurance mangers	
							may put significant	
							attention on	
							managing current	
							assets and current	

www.ijcrt.org						133N. 232U-2002			
15	The Relationship between the ROA, ROE and ROI Ratios with	International Journal of	Dr. Majed Abdel Majid Kab <mark>ajeh</mark>	2012	Vol. 2	6	liability to maintain optimal liquidity position while inflation also important from external variables. This study investigates the correlation between ROA, ROE, and ROI	The study found a strong positive relationship between ROA,	
	Jordanian Insurance Public Companies Market Share Prices						ratios with Jordanian insurance public companies share prices from 2002-2007. Results show a positive relationship between these ratios and share prices, with a low relationship between ROA and ROI ratios separately. However, no relationship was found between ROE ratio and market share prices for Jordanian insurance public companies. The study provides empirical evidence for these relationships.	ROE, and ROI ratios with share prices of Jordanian insurance public companies, with no significant relationship between ROA and ROI.	

	0.1.0.9			12, 10000				
16	An empirical study		,	June 1984	Volume 8,	Pages	This study	This study uses
	of the usefulness	Banking &	Lincoln		Issue 2	321-	investigates the use of	discriminant
	of accounting	Finance				340	accounting ratios to	analysis to
	ratios to describe						measure insolvency	measure
	levels of						risk. Unlike previous	insolvency risk in
	insolvency risk						studies, it uses	four industries,
							discriminant analysis	analysing
							to select ratios	accounting ratios
							without arbitrary	and statistical
							limits, analyses four	probabilities. It
			\ \ \ \ \				industries separately	provides insights
							(manufacturing,	into causes,
							retail, property, and	symptoms, and
							finance) and uses the	remedies of
						4	statistical	financial distress.
							probabilities to	
							measure a firm's	
							current level of	
							insolvency risk. The	
							study concludes by	
							interpreting	
							insolvency risk	
						12	patterns and	
							analysing factors	
							causing differences,	
							providing insights into	
							the causes,	
							symptoms, and	
							remedies of financial	
							distress.	
17	An Evaluation of			2013	Volume 5,	13	This study measures	=
	Financial	Business	Karim,Tamima		Number 2		the financial	evaluates the
	Performance of		Alam				performance of five	financial



			_		_			
18	Analysing Foreign	Journal of	Frederick D. S.	1983	Volume 14	pages	This paper analyses	The paper
	Financial	International	Choi, Hisaaki			113-	the misuse of	examines the
	Statements: The		Hino			131	financial ratios in	misuse of financial
	Use and Misuse of	Studies					foreign companies,	ratios in foreign
	International Ratio						focusing on Japan and	companies,
	Analysis						Korea as examples. It	focusing on Japan
							explains that these	and Korea, and
							ratios are often	highlights the
							misinterpreted due to	misinterpretation
							differences in	due to differences
			V 1				international	in accounting
							accounting principles	principles and lack
			The state of the s				and the lack of	of understanding
							understanding of the	of the foreign
						12	specific foreign	environment.
							environment that	
							influences these	
							ratios. The aim is to	
							raise awareness	
							among investors,	
							security analysts, and	
							business researchers.	
19	Ratio Analysis and	Review of	Doron Nissim	2001	Volume 6	pages	This paper presents a	This paper
	Equity Valuation:	Accounting	& Stephen H.			109-	financial statement	presents a
	From Research to	Studies	Penman			154	analysis for equity	hierarchical
	Practice						valuation,	financial
							incorporating	statement analysis
							standard profitability	for equity
							analysis, growth	valuation,
							analysis, operating	incorporating
							activities, and	profitability,
							financing activities.	growth, operating,
							The analysis is	and financing

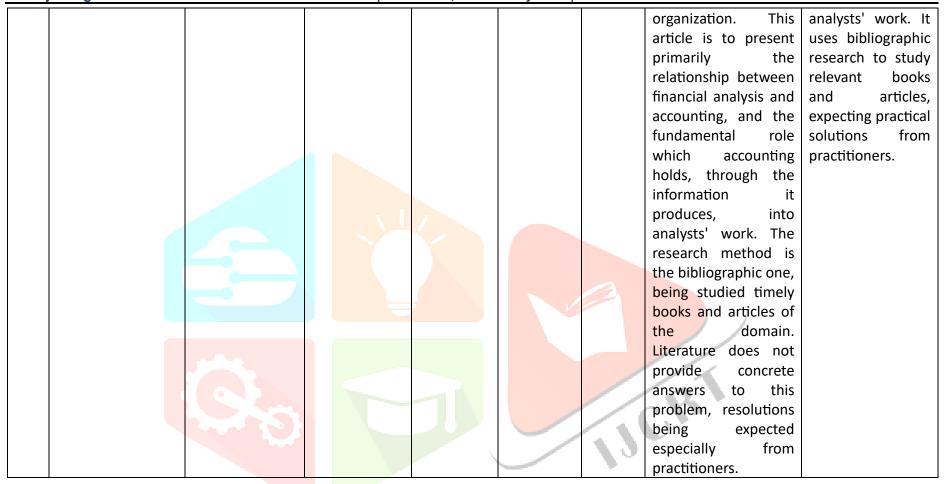
			202+10-01(1 1010	,				
							hierarchical, with current ratios as predictors of future ratios determining equity payoffs. The analysis is historical, documenting typical values for ratios from 1963-1999 and their time series behaviour. The perspective is aimed at forecasting payoffs to equities.	activities, aiming to forecast equity payoffs from 1963-1999.
20	Ratio Analysis Using Rank Transformation	Review of Quantitative Finance and Accounting	Gregory Kane & Nancy Meade	1998	Volume 10	pages 59–74	The paper proposes a method for transforming financial ratios into a uniform distribution with boundaries between 0 and 1, which addresses methodological issues like constrained regression models, ratio outliers, negative ratios, and non-normal distributions. The study empirically tests scaled rank transformations with stock returns, finding	The study addresses methodological issues like negative ratios and ratio outliers by transforming financial ratios into a uniform distribution, demonstrating relative ranked accounting ratios have more explanatory and predictive power.

				•				
							that relative ranked accounting ratios have more explanatory and predictive power than untransformed, log-transformed, and	
							square-foot	
							transformed ratios.	
21	A financial Ratio	African Review	M Kumbirai	2010	Vol. 2 No.	24	The paper examines	The paper
	Analysis of	of Economics	R Webb		1		the performance of	analyses South
	Commercial Bank	and Finance					South Africa's	Africa's
	Performance in						commercial banking	commercial
	South Africa	-					sector from 2005-	banking sector's
							2009 using financial	performance from
							ratios to measure	2005-2009,
							profitability, liquidity,	revealing an initial
		a Bar					and credit quality. It	increase in
							found that overall bank performance	performance. However, the 2007
		100					increased in the first	global financial
						/ (two years, but the	crisis led to
							global financial crisis	declining
				\		10	in 2007 led to falling	profitability, low
							profitability, low	liquidity, and
							liquidity, and	deteriorating
							deteriorating credit	credit quality,
							quality in the sector,	peaking in 2008-
							reaching its peak	2009.
							during 2008-2009.	
22	A FINANCIAL	International	PROF. VIJAY S	October	Vol.1 Issue	14	The Financial	This paper
	RATIO ANALYSIS	Journal of	PATEL; PROF.	2012	10		Statements are	provides
	OF KRISHAK	Marketing,					generally prepared	guidelines for

	BHARATI	Financial	CHANDRESH				for the measurement	analysing the
	COOPERATIVE	Services &	B. MEHTA				of financial position of	profitability ratio
	LIMITED	Management					a particular company	of Krishak Bharati
		Research					for a particular period	Co-operative Ltd.
							of time. The financial	in Surat District,
							statements i.e. (i)	focusing on the
							Profit and loss	profit and loss
							account and (ii)	account and
							Balance sheet provide	balance sheet,
							useful information	which provide
			\ \ \ I				regarding financial	valuable
							situation of company.	information for
							The information has	better decision-
						-	its own value, but if	making.
							someone wants to	
							have better judgment of the concern, he has	
							to analyse them. This	
		and the					paper provides the	
							guidelines about	
		C C					analysis of	
						/ 1	profitability ratio of	
		~ ~~				4.3	Krishak Bharati Co-	
						1	operative Ltd. located	
							at Kawas-Hazira in	
							Surat District.	
23	FINANCIAL RATIO	Asia-Pacific	TOSHIYUKI	2005	Vol. 22,	pp.	The American	The study
	ANALYSIS OF THE	Journal of	SUEYOSHI		No. 03	349-	power/energy	compares
	ELECTRIC POWER	Operational				376	industry's financial	American
	INDUSTRY	Research					performance is	power/energy
							examined using a new	industry's financial
							approach called	performance using
							Financial Ratio	Financial Ratio

	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			:=, :==	•)			
							Analysis. The study compares the financial performance of 147 non-default firms with 24 default firms, revealing that leverage and profitability are crucial factors in avoiding corporate distress or bankruptcy. The results are also applied to the international comparison of Japanese electric power firms, indicating that while they have adequate managerial and financial capabilities, they perform barely above the American standard.	leverage and profitability are key to avoiding
24	Financial	International	Normah	April 2014	Vol. 5, No.	03	Fraud is a significant	This paper
	Statement Fraud:	Journal of	Omar,		2		concern for	discusses fraud
	A Case	Trade,	Ridzuan Kunji				organizations	detection using
	Examination Using	Economics and	Koya				worldwide, and	Beneish Model
	Beneish Model	Finance					governments and	and Ratios
	and Ratio Analysis						regulators are	Analysis,
							emphasizing	emphasizing the
							management's	importance of

							responsibility for	human
							effective fraud	involvement in
							management	organizations and
							programs. This paper	the legal
							discusses a local case	implications of
							and uses Beneish	such techniques
							Model and Ratios	for auditors and
							Analysis as detection	professionals.
							tools. These	
							techniques can	
			V 1				benefit auditors and	
							professionals in	
			The state of the s				detecting financial	
							statement fraud.	
						4	Legal implications and	
							their uses are also	
	_						discussed. The paper	
							highlights the	
							importance of human	
							involvement in	
							organizations and the	
		A 60					need for effective	
						13	fraud management	
							programs.	
25	Financial Ratio	International	Y. A. Babalola,	2013	Vol. 1, No.	132-	Financial analysis is a	This article
	Analysis of Firms:	Journal of	F. R. Abiola		4	137	specialty in	explores the
	A Tool for Decision	Management					accounting that	relationship
	Making	Sciences					aimed at formulating	between financial
							a diagnosis and a	analysis and
							prognosis relative to	accounting,
							the situation and the	highlighting the
							financial performance	crucial role
							of a company or an	accounting plays in



Chapter -04

RESEARCH DESIGN

STATEMENT OF THE PROBLEM

The problem for ratio analysis is to effectively evaluate and interpret financial performance using ratios, despite its limitations. Issues include selecting appropriate ratios, comparability across industries and regions, and the dynamic nature of financial data. Historical financial information may limit predictive power in uncertain economic environments, and variations in accounting standards can distort interpretations. Additionally, ratios cannot capture qualitative aspects of business operations, making comprehensive financial analysis challenging. Addressing these challenges is crucial to enhance the reliability and utility of ratio analysis as a tool for evaluating financial health and making informed decisions.

Scope of the Study

- The study encompasses an examination of various financial ratios used in analysing the performance of companies across different industries.
- ✓ It includes an exploration of methodological approaches such as factor analysis, discriminant analysis, and regression analysis.
- The scope extends to analysing trends and patterns in financial ratios over time to assess long-term performance.
- ✓ Comparative analysis across sectors and regions is considered to identify commonalities and unique variations. -

Objective of study

- Evaluate Financial Performance: Assess the financial performance of Suman & Co. through ratio analysis to understand its profitability, liquidity, solvency, and efficiency.
- Compare with Industry Benchmarks: Compare the ratios of Suman & Co. with industry benchmarks or competitors to identify its relative strengths and weaknesses in financial management and performance.
- Identify Trends and Patterns: Analyze historical trends and patterns in Suman & Co.'s financial ratios to identify any consistent patterns or changes over time, which could provide insights into the company's financial health and management effectiveness.

1JCR

Provide Recommendations: Based on the findings, provide recommendations to Suman & Co. on potential areas for improvement in financial management practices, strategic decision-making, and operational efficiency to enhance its overall financial performance and competitiveness in the market.

Limitations of Ratio Analysis:

- > Data Quality: Reliability of ratio analysis heavily depends on the accuracy and consistency of financial data, and discrepancies or errors can distort results.
- > Lack of Industry Standards: Variations in industry norms and accounting practices make it challenging to establish universal benchmarks for comparison, limiting the effectiveness of ratio analysis.
- Ignoring External Factors: Ratio analysis may overlook external economic, political, or industryspecific factors that significantly impact a company's performance, leading to incomplete insights.
- Historical Focus: Ratios rely on historical data, potentially missing real-time changes in a company's financial health, hindering the ability to predict future trends.
- Limited Contextual Understanding: Ratios may not provide a holistic view of a company's unique business model, strategic initiatives, or competitive landscape, reducing their contextual relevance.

RESEARCH METHODOLOGY

In this section, the data collection and analysis methods used in the study are described. The sources of data, analysis techniques, research duration, variables used in the analysis, and research limitations are outlined. The study is classified as descriptive because of the need to obtain accurate and empirical findings when analysing secondary data. The statistical data is presented using MS Excel and SPSS software.

RESEARCH DESIGN

The proposed research design outlines alternative research methods and addresses specific issues that arise during the review process. The use of econometric analysis enables the examination of the impact of various variables. The study is descriptive in nature, which is appropriate for effectively inferring

conclusions from the analysis of secondary data. The efficient analysis and evaluation of secondary data is logically descriptive.

SAMPLING TECHNIQUE

The research in question employed a non-probability sampling technique, specifically the convenience sampling method. The reason for choosing this method was due to limitations in time and information about the population under study, which made it difficult to collect data through other sampling techniques.

DATA COLLECTION METHOD

The analysis in this study was based on secondary data that was already available and previously published. The data was collected from various sources, including textbooks, journals, and online resources. The primary data source for the study was the annual reports and financial performance data of Bosch Ltd, specifically for the years 2018 to 2022. Additionally, the study also considered the company's share price data for the same five-year period.

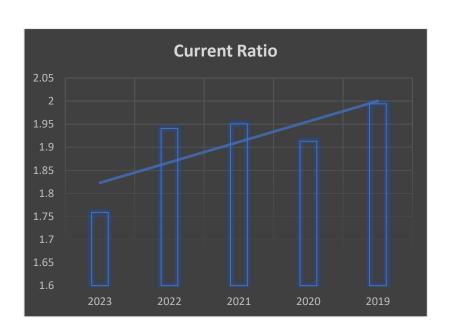
PERIOD OF STUDY

The study has incorporated data from various sources, including annual reports and other records obtained from 2018 to 2022, as a crucial component of the research. 13CR

Chapter -05

Data Analysis & Interpretation

RESULTS OF ANALYSIS AND INTERPRETATION TABLE



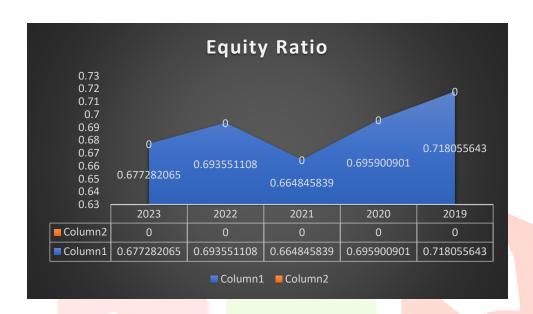
Current Ratio=Current Assets / Current Liabilities	Column1
2023	1.758952921
2022	1.94072973
2021	1.950666756
2020	1.913109839
2019	1.9940887

The current ratio trend from 2019 to 2023 reveals a decline, signaling potential liquidity challenges. Although remaining above 1, indicating adequate liquidity, management should vigilantly address underlying factors driving this trend to fortify the company's financial resilience. Benchmarking against industry standards can offer valuable insights for strategic decision-making.



Liquidity Ratio = Total Sales / Total Assets	Column1
2023	0.898667848
2022	1.33384112
2021	0.642041493
2020	0.714309309
2019	0.934230818

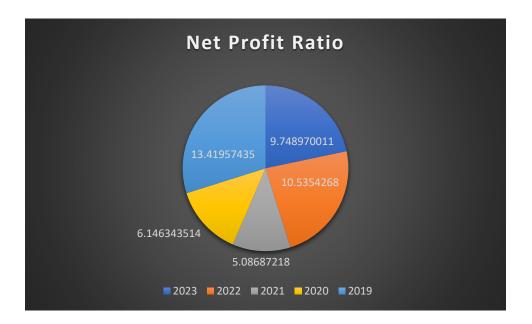
The liquidity ratio trend exhibits fluctuations, notably declining in 2021 before showing modest variations in subsequent years. These shifts may signal challenges in optimizing asset utilization and sales efficiency. Management is advised to conduct a thorough analysis to identify underlying factors driving these fluctuations and implement targeted strategies to enhance both asset productivity and sales performance. Benchmarking against industry standards can offer valuable insights to inform strategic decision-making and improve overall competitiveness.



Equity Ratio=Total Equity / Total Assets	Column1
2023	0.677282065
2022	0.693551108
2021	0.664845839
2020	0.695900901
2019	0.718055643

Balance sheet and P^OL statement final report cp.xlsx

The equity ratio measures the proportion of a company's assets financed by equity rather than debt. The decreasing trend from 2019 to 2023 indicates a potential shift towards higher reliance on debt financing or a decrease in shareholder equity relative to total assets. This trend may signal changes in the company's capital structure or financial risk profile over the years. Further analysis of the company's financial health and strategic decisions is warranted to understand the implications of this trend effectively.



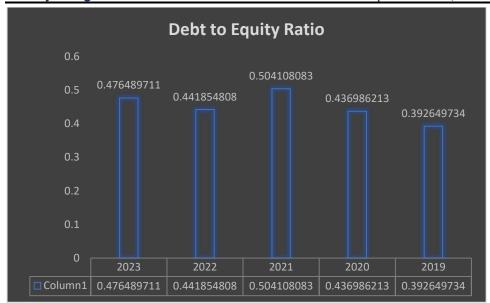
	Net Profit Ratio=Net Profit / Net Sales * 100	Column1
	2023	9.748970011
	2022	10.5354268
	2021	5.08687218
	2020	6.146343514
	2019	13.41957435

The net profit ratio reflects the percentage of net profit generated from net sales, serving as a key indicator of a company's profitability. The fluctuating trend observed from 2019 to 2023 suggests variations in the efficiency of cost management, revenue generation, or both over the years. A notable decline in 2021 followed by a gradual recovery implies potential challenges faced by the company, possibly requiring strategic adjustments to enhance profitability. Further analysis of operational and market factors is essential to discern underlying reasons behind the observed fluctuations.



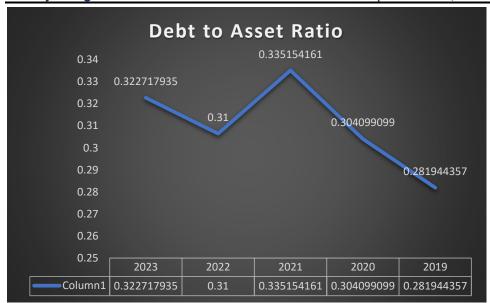
Quick ratio=Total Current Assete-Inventry / Current Liabilit	y Column1
2023	1.38015328
2022	1.539099333
2021	1.661590864
2020	1.608967021
2019	1.547089227

The trend of the quick ratio over the past five years indicates a slight decline, suggesting a potential decrease in the company's ability to meet its short-term obligations with its most liquid assets excluding inventory. Although the ratio remains above 1.0, indicating that the company can cover its current liabilities, the decreasing trend warrants further examination of inventory management and liquidity strategies to maintain financial health. It's crucial for stakeholders to monitor this trend closely to ensure the company's ability to navigate short-term financial obligations effectively and sustainably.



Debt to Equity Ratio=Total Debt / Total Equity Shareholders	Column1
2023	0.476489711
2022	0.441854808
2021	0.504108083
2020	0.436986213
2019	0.392649734

The debt-to-equity ratio has shown a fluctuating trend over the past five years, indicating varying levels of leverage in the company's capital structure. While the ratio has increased from 2019 to 2021, it decreased slightly in 2022 before rising again in 2023. This suggests potential shifts in the company's financing strategy and risk exposure. It's essential for stakeholders to assess the implications of these fluctuations on the company's financial stability and growth prospects, ensuring a balanced approach to debt management and shareholder equity.



Debt to Asset Ratio=Total Debt / Total Asset	Column1
2023	0.322717935
2022	0.31
2021	0.335154161
2020	0.304099099
2019	0.281944357

The debt to asset ratio reflects the proportion of the company's assets financed by debt, with a lower ratio indicating less reliance on borrowing for asset acquisition. Over the past five years, the ratio has exhibited a generally increasing trend, suggesting a gradual rise in debt financing relative to total assets. While this trend could indicate strategic expansion or investment opportunities, stakeholders should closely monitor the ratio's trajectory to ensure sustainable debt management and mitigate potential risks associated with increased leverage. Evaluating the company's ability to generate returns on assets and manage debt repayment obligations is essential for maintaining financial stability and long-term viability. Chapter: 06

Findings And Suggestions

Findings Suggestions

- The current ratio has shown a slight decline over the past five years, from 1.994 in 2019 to 1.759 in 2023, indicating a slight weakening in short-term liquidity.
- ➤ Bosch's net profit ratio has varied significantly, with a peak of 13.42% in 2019 and a low of 5.09% in 2021. This suggests fluctuating profitability over the period.
- ➤ The quick ratio has shown a decreasing trend over the years, indicating a reduction in Bosch's ability to meet short-term obligations with its most liquid assets. It ranges from 1.547 in 2019 to 1.380 in 2023.
- ➤ Bosch's net profit ratio has varied significantly, with a peak of 13.42% in 2019 and a low of 5.09% in 2021. This suggests fluctuating profitability over the period.
- ➤ Bosch maintains a generally healthy liquidity position and a stable capital structure with reasonable levels of profitability and debt.

Conclusion

In conclusion, the empirical study on ratio analysis with reference to Suman and Co provides valuable insights into the financial performance of Bosch Ltd over the past five years. Through comprehensive analysis of liquidity ratios, profitability ratios, leverage ratios, and other key financial metrics, several notable trends and findings have emerged.

Firstly, the study highlights a slight decline in Bosch's current ratio over the period, indicating a potential weakening in short-term liquidity. However, despite this decline, the company's current ratio remains above 1, indicating adequate liquidity to meet its short-term obligations.

Secondly, Bosch's net profit ratio has exhibited significant fluctuations, with peaks and lows indicating varying levels of profitability over the years. This underscores the importance of closely monitoring factors influencing profitability, such as cost management and revenue generation strategies.

Furthermore, the study reveals a decreasing trend in Bosch's quick ratio, suggesting a reduction in the company's ability to meet short-term obligations with its most liquid assets. This trend emphasizes the importance of optimizing inventory management and liquidity strategies to maintain financial health.

Despite these challenges, Bosch maintains a generally healthy liquidity position and a stable capital structure, with reasonable levels of profitability and debt. The findings suggest that while there may be areas for improvement, the company's overall financial performance remains resilient.

In light of these findings, it is recommended that Bosch continues to closely monitor key financial metrics, implement targeted strategies to address areas of weakness, and leverage its strengths to capitalize on

market opportunities. Additionally, benchmarking against industry standards and best practices can provide valuable insights for strategic decision-making and long-term sustainability.

REFERENCE

- De, A., Bandyopadhyay, G., & Chakraborty, B. N. (2011). Application of the factor analysis on the financial ratios and validation of the results by the cluster analysis: an empirical study on the Indian cement industry. *Journal of Business Studies Quarterly*, 2(3), 13-31.
- Oberholzer, M., & Van der Westhuizen, G. (2004). An empirical study on measuring efficiency and profitability of bank regions. *Meditari: Research Journal of the School of Accounting Sciences*, 12(1), 165-178.
- Kida, C. Y. (1998). Financial ratios as predictors of bankruptcy in Japan: Empirical research. *Journal of Finance*, 123, 589-609.
- Ciampi, F., & Gordini, N. (2013). Using economic-financial ratios for small enterprise default prediction modeling: An empirical analysis. SSRN.
- Vijayakumar, S. (2013). An Empirical Study on the Nexus of Poverty, GDP Growth, Dependency
 Ratio and Employ ment in Developing Countries.
- El-Ansary, O., & Hafez, H. (2015). Determinants of capital adequacy ratio: An empirical study on Egyptian banks. *Corporate ownership & control*, 13(1).
- Lyroudi, K., & McCarty, D. (1993). An empirical investigation of the cash conversion cycle of small business firms. *Journal of Small Business Finance*, 2(2), 139-161.
- Aktaş, R., & Seyfettin, Ü. N. A. L. (2015). The relationship between financial efficiency ratios and stock prices: an empirical investigation on insurance companies listed in Borsa Istanbul. *Finansal Araştırmalar ve Çalışmalar Dergisi*, 7(12), 1-16.
- Gupta, S. (2014). An empirical study of financial performance of icici bank-a comparative analysis. *Journal of Business Studies (JBS)*, *I*(1).
- Metin, H., Llapi, G., & Muja, A. (2021). Insurance Sector Analysis in Turkey: An Empirical Study.
- Ahmed, R., & Sarkar, S. (2019). Measurement of Financial Soundness of Life Insurance Companies in Bangladesh: An Empirical Study. *Business Review–A Journal of Business Administration Discipline*, 14(1), 29-43.
- Koapaha, H. P. (2022). Effects of Financial Ratios in Early Warning System and Macro-Economic to Stock Returns (Empirical Study at Insurance Companies at Indonesia Stock Exchange 2014– 2018). 8ISC Proceedings: Business, 136-146.