A Study of Financial Management in the Cement Industry in Rajasthan

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Abstract:

This research paper aims to investigate the financial management practices in the cement industry in the state of Rajasthan, India. The study focuses on understanding the key financial management strategies employed by cement companies in Rajasthan and their impact on the overall financial performance of the industry. Through a combination of qualitative and quantitative analysis, this research paper provides valuable insights into the financial management practices that can enhance the efficiency and profitability of cement companies in Rajasthan.

Keywords: financial management, cement industry, Rajasthan,

financial performance, efficiency, profitability.

Introduction Background

The cement industry in Rajasthan, India, has a long and rich history. Rajasthan is known for its vast reserves of limestone, a key raw material for cement production, which has played a significant role in the development of the cement industry in the state.

Over the years, the cement industry in Rajasthan expanded rapidly. The favorable geology of the region, with abundant limestone deposits and proximity to major markets, contributed to the growth of cement manufacturing units. Several cement plants were established in different parts of Rajasthan, including cities like Jaipur, Jodhpur, Chittorgarh, Banswara, and Kota.

Rajasthan is known for both large and small-scale cement plants. The state has attracted major cement companies like UltraTech Cement, Ambuja Cement, Shree Cement, JK Cement, and Binani Cement, among others. These companies have established state-of-the-art cement manufacturing facilities in various parts of Rajasthan, contributing to the economic growth of the state and generating employment opportunities.

The cement industry in Rajasthan has benefited from government policies that have promoted industrial development in the state. The availability of limestone, a key raw material, at competitive prices has also been a significant advantage. Additionally, the state government has provided various incentives and subsidies to attract investments in the cement sector.

The cement produced in Rajasthan is not only supplied to the domestic market but also exported to other states in India and international markets. The quality of cement manufactured in Rajasthan is known for its strength and durability, which has helped cement companies establish a strong presence in the construction sector.

However, the cement industry in Rajasthan has faced some challenges as well. The sector has been impacted by fluctuations in the prices of raw materials, energy costs, and government regulations. Environmental concerns related to limestone mining and emissions from cement plants have also been raised, leading to the implementation of stricter environmental regulations.

Despite the challenges, the cement industry in Rajasthan continues to play a vital role in the state's economy. It has contributed significantly to employment generation, infrastructure development, and the overall growth of the construction sector in the region. The industry remains a key pillar of Rajasthan's industrial landscape and is expected to continue its growth trajectory in the coming years.

Research Objectives:-

- 1. To analyze the financial performance of cement companies operating in Rajasthan and identify key financial indicators such as profitability, liquidity, solvency, and efficiency ratios.
- 2. To investigate the factors influencing financial management practices in the cement industry in Rajasthan, including capital structure decisions, working capital management, investment decisions, and dividend policies.

Significance of the Study:

Industry-specific insights: The study provides specific insights into financial management practices within the cement industry in Rajasthan. It helps identify the unique challenges, opportunities, and best practices related to financial decision-making in this particular sector. These insights can assist industry professionals, policymakers, and investors in making informed decisions and formulating effective strategies.

Regional focus: Focusing on the cement industry in Rajasthan allows for a deeper understanding of the financial dynamics and performance drivers within the context of a specific geographical region. This localized perspective is valuable as it captures the nuances of the local economy, government regulations, infrastructure, and market conditions, which can significantly impact financial management practices.

Practical implications: The research outcomes can have direct practical implications for cement companies operating in Rajasthan. It can help identify areas of improvement in financial management processes, such as budgeting, working capital management, capital structure, risk management, and investment decisions. The findings can guide managers in optimizing financial resources, reducing costs, enhancing profitability, and improving overall financial performance.

Policy formulation: The research can also contribute to the formulation of policies and regulations related to financial management in the cement industry. It can provide insights into areas that require attention from regulatory bodies and policymakers. For example, if the study identifies challenges related to access to capital or high taxation, it can inform policymakers about potential reforms or interventions needed to facilitate the growth and financial health of cement companies in Rajasthan.

Benchmarking and knowledge sharing: The research can serve as a benchmarking tool for cement companies in Rajasthan, allowing them to compare their financial management practices with industry peers and identify areas where they lag or excel. It also promotes knowledge sharing among industry participants, facilitating the dissemination of best practices and fostering collaboration for the overall improvement of financial management standards within the sector.

2 Financial Management Practices in the Cement Industry in Rajasthan

2.1 Overview of the Cement Industry in Rajasthan:

The cement industry in Rajasthan, India, holds significant importance due to the state's abundant availability of limestone, a key raw material for cement production. Rajasthan is known for its vast limestone reserves, making it one of the leading cement-producing regions in the country. Here's an overview of the cement industry in Rajasthan:

Production: Rajasthan accounts for a substantial portion of India's cement production. The state has several cement plants, both large and small, scattered across different regions. These plants contribute significantly to the overall cement production in the country.

Major Players: Some of the major cement companies operating in Rajasthan include Ultratech Cement, Ambuja Cement, Shree Cement, JK Cement, Binani Cement, and Mangalam Cement, among others. These companies have established a strong presence in the state and contribute to its economic growth.

Raw Materials: The availability of high-quality limestone deposits in Rajasthan is a significant advantage for the cement industry. Limestone, along with other materials such as clay, shale, and gypsum, is used in the production of cement. Rajasthan's limestone reserves ensure a steady supply of raw materials for cement manufacturing.

Infrastructure Development: The rapid pace of infrastructure development in Rajasthan and neighboring states has led to an increased demand for cement. The construction of roads, highways, bridges, housing projects, and other infrastructure initiatives has fueled the growth of the cement industry in the region.

Export Potential: Rajasthan's cement industry also has good export potential. The state's proximity to major ports, such as Kandla and Mundra, facilitates the export of cement to international markets. Cement manufacturers in Rajasthan often export their products to countries in the Middle East, Africa, and Southeast Asia.

Employment Generation: The cement industry in Rajasthan plays a crucial role in generating employment opportunities. Cement plants require a significant workforce for various operations, including mining, production, logistics, and administration. Thus, the industry contributes to both skilled and unskilled employment in the state.

Technological Advancements: Rajasthan's cement industry has embraced technological advancements to enhance efficiency and reduce environmental impact. Many cement plants in the state have adopted modern technologies like pre-calciners, waste heat recovery systems, and alternative fuel usage to improve productivity and reduce energy consumption.

Environmental Regulations: The cement industry in Rajasthan operates under strict environmental regulations imposed by the government. Cement plants are required to adhere to emission norms, manage waste responsibly, and implement sustainable practices to minimize their ecological footprint.

Government Support: The Rajasthan state government has been supportive of the cement industry's growth and development. The government has provided various incentives and subsidies to attract investment in the sector, promote infrastructure development, and facilitate the ease of doing business.

Future Prospects: The future outlook for the cement industry in Rajasthan remains positive. The increasing demand for cement from the construction sector, coupled with the state's favorable business environment and abundant limestone reserves, positions Rajasthan as a key player in India's cement industry.

2.2 Financial Management Strategies and Techniques:-

Financial management strategies and techniques play a crucial role in the cement industry in Rajasthan, or any other industry for that matter. Here are some key strategies and techniques that can be employed in the financial management of a cement company in Rajasthan:

Budgeting and Forecasting: Develop an annual budget and long-term financial forecasts to set financial goals and plan for future growth. This includes estimating revenue, expenses, capital expenditures, and cash flow projections.

Cost Control: Implement cost control measures to optimize operational expenses. Identify areas where costs can be reduced without compromising quality or safety. This may include energy efficiency initiatives, procurement optimization, and process improvements.

Working Capital Management: Efficient management of working capital is essential in the cement industry. Focus on optimizing inventory levels, improving accounts receivable collection processes, and negotiating favorable payment terms with suppliers to maintain adequate liquidity.

Capital Investment Decisions: Evaluate potential capital investment opportunities

carefully. Consider factors such as expected return on investment, payback period, and risk analysis before making significant capital expenditure decisions on plant expansions, equipment upgrades, or technology investments.

Financial Risk Management: Identify and manage financial risks associated with the cement industry. This may include foreign exchange risk due to imported raw materials or fuel, commodity price fluctuations, interest rate risks, and credit risks associated with customers and suppliers.

Financial Reporting and Analysis: Establish robust financial reporting systems to track key performance indicators and financial metrics. Regularly analyze financial statements to monitor profitability, liquidity, leverage, and other relevant financial ratios. Use this information to make informed business decisions.

Debt Management: Develop a prudent debt management strategy to optimize the capital structure of the company. Evaluate various sources of financing, negotiate favorable terms with lenders, and monitor debt levels to ensure they remain within manageable limits.

Tax Planning: Engage in tax planning to minimize the company's tax liabilities. Stay updated with relevant tax laws and regulations and explore available incentives, deductions, and exemptions specific to the cement industry in Rajasthan.

Stakeholder Management: Maintain effective communication with stakeholders, including investors, lenders, regulators, and local communities. Transparency in financial reporting and regular engagement with stakeholders can help build trust and secure support for the company's operations and growth initiatives.

Continuous Improvement: Foster a culture of continuous improvement in financial management practices. Regularly review and refine strategies and techniques based on industry trends, best practices, and changing economic conditions.

2.3 Working Capital Management:-

Working capital management is a critical aspect of financial management for businesses in any industry, including the cement industry in Rajasthan. Effective working capital management ensures that a company has sufficient liquidity to meet its short-term obligations and operational requirements. In the cement industry, which involves significant capital investments and long production cycles, managing working capital becomes even more crucial.

Here are some key considerations and strategies for working capital management in the cement industry in Rajasthan:

Inventory Management: Cement manufacturers need to carefully manage their inventory levels to strike a balance between ensuring smooth production and minimizing holding costs. Efficient inventory management involves optimizing raw material procurement, monitoring production levels, and controlling finished goods

inventory. Implementing just-in-time (JIT) inventory systems and adopting modern production techniques can help reduce inventory carrying costs.

Receivables and Payables Management: Cement companies should focus on effectively managing their receivables and payables to minimize the cash conversion cycle. Negotiating favorable credit terms with suppliers and optimizing payment schedules can help preserve cash flow. Additionally, closely monitoring customer creditworthiness, timely invoicing, and implementing efficient collection processes can reduce the average collection period.

Cash Flow Forecasting: Developing accurate cash flow forecasts is crucial for working capital management. Cement companies should analyze historical data, project future sales, and estimate expenses to determine the cash requirements at different points in time. By identifying potential cash shortfalls or surpluses, management can take proactive measures to address liquidity issues or invest excess funds optimally.

Financing Options: Cement companies can explore various financing options to optimize working capital. These may include short-term loans, revolving credit facilities, factoring, and trade credit arrangements. Evaluating the cost of capital and aligning financing sources with the company's specific needs can help ensure efficient working capital management.

Cost Optimization: Minimizing operating costs can positively impact working capital management. Cement companies should continuously review and streamline their operations, identifying opportunities to reduce expenses without compromising product quality or operational efficiency. This can involve optimizing energy consumption, improving logistics and transportation processes, and implementing cost-effective procurement strategies.

Technology and Automation: Leveraging technology and automation can enhance working capital management in the cement industry. Implementing enterprise resource planning (ERP) systems can improve inventory control, streamline procurement processes, and provide real-time visibility into cash flows. Automation can also enhance operational efficiency, reducing costs and cycle times.

Risk Management: Effective risk management is crucial for working capital management in the cement industry. Companies should assess and mitigate risks associated with price volatility of raw materials, interest rate fluctuations, foreign exchange exposure, and regulatory changes. Proper risk management strategies can help safeguard the company's financial stability and ensure the availability of working capital.

2.4 Performance Evaluation and Reporting

Financial Performance Analysis of Cement Companies in Rajasthan:-

Evaluation of Financial Performance:

Financial performance of an organization is usually evaluated in terms of its Profits, liquidity, andLong term solvency.

Profitability:

Any organization works to obtain to earn the profit. A business needs profits for existence and to expand and diversification of business in the market. The profits can be measured with the gross profit ratio, net profit ratio and operating profit ratio.

Gross profit ratio refers to gross profit and selling prices of goods per unit. It reflects the efficiency of the firms functions. Net profit is relationship between net profit and sales. It indicates the efficiency of the management of manufacturing, selling, administrative activities of the firm. The net profit ratio reveals that the overall profitability of the organization and higher the ratio is betterthe profitability.

Liquidity: Liquidity refers to the ability of organization to meet its current obligations when they become due. A firm should ensure that it does not suffer from lack of liquidity . it should not have excess liquidity it effects on profitability. Bankers and suppliers of goods extend credit if their

current assets are enough to pay off their obligation. Liquidity will be measured with the help of current ratio and quick ratio.

Current Ratio is the ratio of current assets and current liabilities. The current ratio is an indication of the firm liquidity and ability to pay its high current position of firm and low current position of the firm is not good . a current ratio of 2.:1 is considered to be satisfactory.

Quick Ratio is also known as acid test or liquid ratio. The Quick ratio is the ratio of Liquid assets and Liquid Liabilities. The high quick ratio is an indication that the firm is liquid and the ability to meet its liquid liabilities on time and low quick ratio represents that firm's liquidity position is not good. A quick ratio of 1:1 is considered to be satisfactory.

Solvency:

The term solvency refers to the capacity of a concern to meet its obligations. The long term gratitude of a firm includes debenture holders and loans provided by financial institutions. The long term creditors of a firm is interested in knowing the firm's ability to pay interest regularly on long barrowings, payments of the maturity and security of their loans. The solvency ratio indicates the firm's ability to meet the fixed interest and costs to repay long barrowings. Debt equity ratio is the one of the important measurement of long term solvency.

Debt equity ratio indicates relationship between borrowed funds and the owner's capital. The debt equity ratio is measure the relative interest of owners and creditors in the firm. The debt equity ratio of 1:1 may be considered satisfactory.

Testing of hypothesis:

Ha1: There is no significant different in gross profit ratio of selected cement companies in India.

Table -2 Gross Profit	Ratio						
Company/Year	2019	2018	2017	2016	2015	Mean	SD
Ultratech	19.58	21.74	23.56	21.54	19.91	21.27	1.60
Shree Cements	24.72	29.10	33.45	37.71	22.95	29.59	6.10
Ambuja Cements	19.95	21.98	23.94	19.97	23.62	21.89	1.91
ACC	14.74	15.36	13.70	14.04	15.12	14.59	0.71
Ramco Cements	20.49	25.78	31.34	31.99	21.95	26.31	5.26

Source: http://www.moneycontrol.com/

Table 2.1 ANOVA of Gross Profit Ratio									
Source of Variation	SS	df	MS	F	P-value	F crit			
Between Groups	644.468 6	4	161.1171	11.24748	0.000	2.866081			
Within Groups	286.494 6	20	14.32473						
Total	930.963	24							

Source: Data analysis using SPSS 23

Table 2 shows that Shree cement the maximum mean values of gross profit is 29.59, standard deviation is 6.10 and follow by Ramco Cement mean value is 26.31, standard deviation is 5.26, Amubuja Cements mean value is 21.89, standard deviation is 1.91, Ultratech Cement mean value is

21.27, standard deviation is 1.60 and ACC mean value is 14.59, standard deviation is 0.71. It concludes that Shree cements performance is higher than the selected cement companies.

Table 2.1 shows that the significant value is 0.000 which is less than 0.05 percent confidence interval. Therefore null hypothesis is rejected and hence it can be concluded that there is a significant difference in gross profit ratio of the selected cement companies in India.

Ha2: There is no significant different in net profit ratio of selected cement companies in

India.

Table-3 Net profit Rat	tio						
Company/Year	2019	2018	2017	2016	2015	Mean	SD
Ultratech	6.87	7.49	10.99	9.99	8.78	8.82	1.71
Shree Cements	8.11	14.07	15.58	20.73	6.60	13.02	5.75
Ambuja Cements	13.09	11.94	10.13	8.53	14.99	11.74	2.52
ACC	10.17	6.89	5.39	5.01	9.95	7.48	2.46
Ramco Cements	9.83	12.61	16.43	15.52	6.64	12.21	4.05

Source: http://www.moneycontrol.com/

Table 3.1 ANOVA Net Profit Ratio								
Source of Variation	SS	df	MS	F	P-value	F crit		
Between Groups	112.892	4	28.2230	2.17800	0.0085	2.86608 1		
Within Groups	259.164 3	20	12.9582 2					
Total	372.056 3	24						

Source: Data analysis using SPSS 23

Table 3 shows that Shree cement the maximum mean values of gross profit is 13.02, standard deviation is 5.75 and follow by Ramco Cement mean value is 12.21, standard deviation is 4.05, Amubuja Cements mean value is 11.74, standard deviation is 2.52, Ultratech Cement mean value is

8.82, standard deviation is 1.71 and ACC mean value is 7.48, standard deviation is 2.46. It concludes that Shree cements performance is higher than the selected cement companies.

Table 3.1 shows that the significant value is 0.0085 which is less than 0.05 percent confidence interval. Therefore null hypothesis is rejected and hence it can be concluded that there is a significant difference in gross profit ratio of the selected cement companies in India.

Ha3: there is no significant different in current ratio of selected cement companies in India.

Table-4 Current Rati	10						
Company/Year	2019	2018	2017	2016	2015	Mean	SD
Ultratech	0.97	0.96	1.55	0.86	0.90	1.05	0.28
Shree Cements	2.01	1.92	1.65	1.56	1.61	1.75	0.20
Ambuja Cements	1.55	1.34	1.23	2.03	1.90	1.61	0.35
ACC	1.40	1.16	0.99	0.88	0.96	1.08	0.21
Ramco Cements	0.67	0.70	0.70	0.88	0.83	0.76	0.09

Source: http://www.moneycontrol.com/

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	3.47005 6	4	0.86751 4	14.79793	0.0000	2.86608 1
Within Groups	1.17248	20	0.05862 4			
Total	4.64253 6	24				

Source: Data analysis using SPSS 23

Table 4 shows that Shree cement the maximum mean values of gross profit is 1.75, standard deviation is 0.24, and follow by Ramco Cement mean value is 0.76, standard deviation is 0.09, Amubuja Cements mean value is 1.61, standard deviation is 0.35, Ultratech Cement mean value is

1.05, standard deviation is 0.28 and ACC mean value is 1.08, standard deviation is 0.21. It concludes that Shree cements performance is higher than the selected cement companies.

Table 4.1 shows that the significant value is 0.000 which is less than 0.05 percent confidence interval. Therefore null hypothesis is rejected and hence it can be concluded that there is a significant difference in gross profit ratio of the selected cement companies in India.

Ha4: there is no significant different in quick ratio of selected cement companies in India.

Table-5 Quick Ratio)						
Company/Year	2019	2018	2017	2016	2015	Mean	SD
Ultratech	0.69	0.68	1.27	0.66	0.59	0.78	0.28
Shree Cements	1.21	1.39	0.99	0.86	0.98	1.09	0.21
Ambuja Cements	1.21	1.08	0.95	1.75	1.62	1.32	0.35
ACC	1.04	0.87	0.69	0.57	0.63	0.76	0.19
Ramco Cements	0.40	0.40	0.42	0.51	0.47	0.44	0.05

Source: http://www.moneycontrol.com/

Table 5.1 ANOVA Quick Ratio									
Source of Variation	SS	df	MS	F	P-value	F crit			
Between Groups	2.28082	4	0.57020 6	10.11649	0.00012 1	2.866081			
Within Groups	1.12728	20	0.05636						
Total	3.40810 4	24							

Source: Data analysis using SPSS 23

Table 5 shows that Shree cement the maximum mean values of gross profit is 1.09, standard deviation is 0.28, and follow by Ramco Cement mean value is 0.44, standard deviation is 0.05, Amubuja Cements mean value is 1.32, standard deviation is 0.35, Ultratech Cement mean value is

0.78, standard deviation is 0.28 and ACC mean value is 0.76, standard deviation is 0.19. It concludes that Shree cements performance is higher than the selected cement companies.

Table 5.1 shows that the significant value is 0.000121 which is less than 0.05 percent confidence interval. Therefore null hypothesis is rejected and hence it can be concluded that there is a significant difference in gross profit ratio of the selected cement companies in India.

Ha5: there is no significant different in debt equity ratio of selected cement companies in India.

Table-6 Debit Equity	Ratio						
Company/Year	2019	2018	2017	2016	2015	Mean	SD
Ultratech	0.63	0.64	0.22	0.23	0.35	2.07	0.21
Shree Cements	0.29	0.38	0.17	0.11	0.12	1.07	0.12
Ambuja Cements	0.54	0.48	0.17	0.23	0.18	1.60	0.18
ACC	0.00	0.01	0.01	0.00	0.00	0.02	0.01
Ramco Cements	0.32	0.25	0.30	0.57	0.86	2.30	0.26

Source: http://www.moneycontrol.com/

Table -6.1 ANOVA of Debit Equity Ratio									
Source of Variation	SS	df	MS	F	P-value	F crit			
Between Groups	0.662296	4	0.165574	5.393641	0.004108	2.866081			
Within Groups	0.61396	20	0.030698						
Total	1.276256	24							

Source: Data analysis using SPSS 23

Table 6 shows that Shree cement the maximum mean values of Debt Equity Ratio is 1.07, standard deviation is 0.12, and follow by Ramco Cement mean value is 2.30, standard deviation is 0.26, Amubuja Cements mean value is 1.60, standard deviation is 0.18, Ultratech Cement mean value is

2.07, standard deviation is 0.21 and ACC mean value is 0.02, standard deviation is 0.01. It concludes that Ramco cements performance is higher than the selected cement companies.

Table 6.1 shows that the significant value is 0.004108 which is less than 0.05 percent confidence interval. Therefore null hypothesis is rejected and hence it can be concluded that there is a significant difference in Debt Equity ratio of the selected cement companies in India.

Table -7

Company/Ratio	GP	NPR	CR	QR	DER
Ultratech	21.27	8.82	1.05	0.78	2.07
Shree Cements	29.59	13.02	1.75	1.09	1.07
Ambuja Cements	21.89	11.74	1.61	1,32	1.60
ACC	14.59	7.48	1.08	0.76	0.02

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Ramco Cements	26.31	12.48	0.76	0.44	2.30
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Source: Data analysis using SPSS 23

The table -7 shows that the average Gross profit ratio of the Ultratech Cements were 21.27, Shree Cemeents were 29.59, Amuja Ceements 21.89, ACC were 14.59 and Ramco Cements 26.31. the average Net profit ratio of the Ultratech Cements were 8.82, Shree Cements were 13.02, Amuja Ceements 11.74, ACC were 7.48 and Ramco Cements 12.48.the average Current Ratio of the Ultratech Cements were 1.05 Shree Cemeents were 1.75, Amuja Ceements 1.61, ACC were 1.08 and Ramco Cements 0.76. The average Quick ratio of the Ultratech Cements were 0.78, Shree Cemeents were 1.09, Amuja Ceements 1.32, ACC were 0.76 and Ramco Cements 0.44. The average Debit Equity Ratio of the Ultratech Cements was 2.07, Shree Cemeents were 1.07, Amuja Ceements 1.60, ACC were 0.02 and Ramco Cements 2.30. Hence it concludes that an average theperformance of Shree cement is satisfactory.

No.	Hypothesis	Sig.	Results
		value	
1	There is no significant different in gross profit ratio of	0.000	Reject
	selected		Nul
	cement companies in Rajasthan.		1
			Hypothesis
2	There is no significant different in net profit ratio of	0.0085	Reject
	selected		Nul
	cement companies in Rajasthan.		1
			Hypothesis
3	there is no significant different in current ratio of	0.000	Reject
	selected		Nul
	cement companies in Rajasthan.		1
			Hypothesis
4	There is no significant different in quick ratio of selected	0.00012	Reject
	cement	1	Nul
	companies in Rajasthan.		1
			Hypothesis
5	There is no significant different in debt equity ratio of	0.00410	Reject
	selected	8	Nul
	cement companies in Rajasthan.		1
			Hypothesis

Source: Based on hypothesis tested

Conclusion:

The contribution of Indian cement industry to Rajasthan economy is significant because the construction industry in Rajasthan depends on the cement industry. The financial performance of five major selected cements companies are Ultratech Cement, Shree Cement, Ambuja Cement Limited, Associate Cement Companies Limited and Ramco Cements the null hypothesis have been rejected and accepted of alternative hypothesis. The analysis of data shows that there is a significant difference in selected cement companies during the period of 2015 to 2019 in Rajasthan with respect to gross profit ratio, net profit ratio, current ratio, quick ratio, and debt equity ratio.

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