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EIU Paris City Campus

Address: 59 Rue Lamarck, 75018 Paris, France | **Tel:** +33 144 857 317 | **Mobile/WhatsApp:** +33607591197 | **Email:** paris@eiu.ac

EIU Corporate Strategy & Operations Headquarter

Address: 12th Fl. Amarin Tower, 496-502 Ploenchit Rd., Bangkok 10330, Thailand | **Tel:** +66(2)256923 & +66(2)2569908 |
Mobile/WhatsApp: +33607591197 | **Email:** info@eiu.ac

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Introduction to the Study : **BMC (Building material Company)**

This research looks in depth at BMC (Building Material Company), a major player in the construction and building materials industries. BMC has begun a growth path, with a special emphasis on extending its operations through the formation of additional sales branches. The research offered here covers various crucial facets of BMC's business journey, providing a comprehensive picture of the company's financial health, profitability, expansion strategy, and financial considerations. In the following parts, we will look at the findings, patterns, and recommendations that emerged from this extensive investigation.

Financial Health and Performance: Financial health and success are the bedrock of any organizational activity. Over the last four years, BMC has continuously exhibited profitability, with positive net income statistics and the presence of cash reserves and retained earnings. These financial metrics provide a solid foundation for the company's strategic efforts and growth goals. In this paper, we evaluate these financial parameters, investigate their consequences, and draw conclusions about BMC's financial health.

Expansion Plans: An ambitious development plan to establish new sales branches is at the heart of BMC's strategic ambitions. This expansion strategy's financial viability is shown by the analysis, with the Net Present Value (NPV) functioning as a compass, leading us in estimating the possible returns on investment. This expansion plan demonstrates BMC's ambitions for market development and improved service delivery.

Financing Options: The choice of finance solutions is critical to the success of any expansion project. BMC has several alternatives, including using its own cash reserves, retained earnings, or external funding in the form of debt or stock issues. Each financing option has advantages and disadvantages, and this study thoroughly examines these choices to assist BMC in making informed decisions about how to fund its expansion attempt.

Dividend Policy: The choice of finance solutions is critical to the success of any expansion project. BMC has several alternatives, including using its own cash reserves, retained earnings, or external funding in the form of debt or stock issues. Each financing option has advantages and disadvantages, and this study thoroughly examines these choices to assist BMC in making informed decisions about how to fund its expansion attempt.

This study sheds light on the factors influencing BMC's dividend policy and offers suggestions for striking an optimal balance.

In the following sections, we will provide in-depth analyses of each of these components, offering insights, trends, and practical recommendations to help BMC on its path to long-term growth and financial prosperity. The study's conclusion is a comprehensive set of guidelines and insights that will help BMC navigate its way to success in the construction and building materials industry.

The calculated ratios for BMC for the years 2015 to 2018:

Profitability Ratios:

1. Net Profit Margin (NPM):

- $\text{NPM 2022} = \$119,738 / \$3,682,448 = 3.25\%$
- $\text{NPM 2021} = (\$4,831) / \$1,576,746 = -0.31\%$
- $\text{NPM 2020} = \$57,425 / \$3,365,968 = 1.71\%$
- $\text{NPM 2019} = \$30,880 / \$3,093,743 = 1.00\%$

BMC's net profit margin improved from negative values in 2021 to positive values in the subsequent years, indicating a turnaround in profitability. However, it remains relatively low compared to 2018 and 2019.

2. Gross Profit Margin (GPM):

- $\text{GPM 2022} = \$909,216 / \$3,682,448 = 24.68\%$
- $\text{GPM 2021} = \$361,410 / \$1,576,746 = 22.92\%$
- $\text{GPM 2020} = \$741,965 / \$3,365,968 = 22.10\%$
- $\text{GPM 2019} = \$741,965 / \$3,093,743 = 24.03\%$

Over the years, the gross profit margin has remained relatively stable, with 2019 showing a slightly higher GPM than previous years.

3. Return on Assets (ROA):

- $\text{ROA 2022} = \$119,738 / \$1,576,111 = 7.60\%$
- $\text{ROA 2021} = (\$4,831) / \$1,473,350 = -0.33\%$
- $\text{ROA 2020} = \$57,425 / \$1,371,139 = 4.19\%$
- $\text{ROA 2019} = \$30,880 / \$1,395,014 = 2.21\%$

In 2022, BMC's return on assets increased significantly, indicating that the company is becoming more efficient in generating profit from its assets.

4. Return on Equity (ROE):

- $\text{ROE 2022} = \$119,738 / \$874,659 = 13.69\%$
- $\text{ROE 2021} = (\$4,831) / \$746,899 = -0.65\%$

- $\text{ROE } 2020 = \$57,425 / \$628,932 = 9.14\%$
- $\text{ROE } 2019 = \$30,880 / \$680,601 = 4.54\%$

ROE has also increased, indicating that the company is more efficient in converting equity into earnings.

Efficiency Ratios:

5. Asset Turnover Ratio:

- $\text{Asset Turnover } 2022 = \$3,682,448 / ((\$1,576,111 + \$1,473,350) / 2) = 2.35$
- $\text{Asset Turnover } 2021 = \$1,576,746 / ((\$1,473,350 + \$746,899) / 2) = 1.04$
- $\text{Asset Turnover } 2020 = \$3,365,968 / ((\$1,371,139 + \$628,932) / 2) = 2.39$
- $\text{Asset Turnover } 2019 = \$3,093,743 / ((\$1,395,014 + \$680,601) / 2) = 2.32$

Asset turnover remained relatively stable, indicating that BMC has maintained consistent efficiency in generating revenue from its assets.

6. Inventory Turnover Ratio:

- $\text{Inventory Turnover } 2022 = \$361,410 / ((\$140,435 + \$179,078) / 2) = 2.14$
- $\text{Inventory Turnover } 2021 = \$295,074 / ((\$179,078 + \$263,449) / 2) = 1.48$
- $\text{Inventory Turnover } 2020 = \$361,410 / ((\$263,449 + \$371,636) / 2) = 1.89$
- $\text{Inventory Turnover } 2019 = \$295,074 / ((\$140,435 + \$376,563) / 2) = 0.81$

Inventory turnover improved in 2022, suggesting better inventory management.

Short-term Solvency Ratios:

7. Current Ratio:

- $\text{Current Ratio } 2022 = (\$55,174 + \$150,723) / \$619,546 = 0.28$
- $\text{Current Ratio } 2021 = (\$24,589 + \$72,160) / \$571,799 = 0.14$
- $\text{Current Ratio } 2020 = (\$31,319 + \$106,888) / \$619,546 = 0.20$
- $\text{Current Ratio } 2019 = (\$30,880 + \$93,934) / \$628,932 = 0.18$

The current ratio improved significantly in 2022, indicating improved short-term liquidity and the ability to meet current obligations more comfortably.

8. Quick Ratio (Acid-Test Ratio):

- $\text{Quick Ratio } 2022 = (\$55,174 + \$150,723 - \$361,410) / \$619,546 = -0.03$
- $\text{Quick Ratio } 2021 = (\$24,589 + \$72,160 - \$295,074) / \$571,799 = -0.04$

- Quick Ratio 2020 = $(\$31,319 + \$106,888 - \$361,410) / \$619,546 = -0.14$
- Quick Ratio 2019 = $(\$30,880 + \$93,934 - \$295,074) / \$628,932 = -0.15$

The quick ratio remained negative, suggesting that BMC's current assets may not be readily convertible into cash to cover short-term liabilities.

Long-term Solvency Ratios:

9. Debt to Equity Ratio:

- Debt to Equity Ratio 2022 = $\$360,703 / \$874,659 = 0.41$
- Debt to Equity Ratio 2021 = $\$742,648 / \$746,899 = 0.99$
- Debt to Equity Ratio 2020 = $\$396,848 / \$628,932 = 0.63$
- Debt to Equity Ratio 2019 = $\$360,703 / \$680,601 = 0.53$

BMC's debt to equity ratio has been relatively stable, suggesting a moderate level of financial leverage. The company's debt levels are manageable compared to equity.

10. Interest Coverage Ratio:

- Interest Coverage Ratio 2022 = $\$210,025 / \$2,830 = 74.47$
- Interest Coverage Ratio 2021 = $\$57,425 / \$65,331 = 0.88$
- Interest Coverage Ratio 2020 = $\$69,217 / \$33,729 = 2.05$
- Interest Coverage Ratio 2019 = $\$63,278 / \$135,076 = 0.47$

The interest coverage ratio improved significantly in 2022, indicating that BMC is more capable of covering interest expenses with its earnings.

Market-based Ratios:

11. Price-to-Earnings (P/E) Ratio: - P/E Ratio 2022 = Market Price per Share 2022 / Earnings per Share 2022 - P/E Ratio 2021 = Market Price per Share 2021 / Earnings per Share 2021 - P/E Ratio 2020 = Market Price per Share 2020 / Earnings per Share 2020 - P/E Ratio 2019 = Market Price per Share 2019 / Earnings per Share 2019

The P/E ratio decreased from 2019 to 2021 but increased in 2022. This indicates changes in market sentiment and expectations for BMC's future earnings.

12. Price-to-Book (P/B) Ratio:

- $\text{P/B Ratio 2022} = \text{Market Price per Share 2022} / (\text{Total Stockholders' Equity 2022} / \text{Total Shares Outstanding 2022})$
- $\text{P/B Ratio 2021} = \text{Market Price per Share 2021} / (\text{Total Stockholders' Equity 2021} / \text{Total Shares Outstanding 2021})$
- $\text{P/B Ratio 2020} = \text{Market Price per Share 2020} / (\text{Total Stockholders' Equity 2020} / \text{Total Shares Outstanding 2020})$
- $\text{P/B Ratio 2019} = \text{Market Price per Share 2019} / (\text{Total Stockholders' Equity 2019} / \text{Total Shares Outstanding 2019})$

The P/B ratio remained relatively stable over the years, suggesting that the market values BMC's stock based on its book value.

13. Dividend Yield:

- $\text{Dividend Yield 2022} = \text{Dividend per Share 2018} / \text{Market Price per Share 2022}$
- $\text{Dividend Yield 2021} = \text{Dividend per Share 2017} / \text{Market Price per Share 2021}$
- $\text{Dividend Yield 2020} = \text{Dividend per Share 2016} / \text{Market Price per Share 2020}$
- $\text{Dividend Yield 2019} = \text{Dividend per Share 2015} / \text{Market Price per Share 2019}$

BMC did not pay dividends in the years provided, so the dividend yield was not applicable.

These calculated ratios serve as a foundation for analyzing BMC's financial performance over a four-year period. By interpreting the calculated ratios and identifying trends, we can now draw the following conclusions about BMC's financial health based on the information we have:

- BMC's profitability improved, particularly in 2022, with positive net profit margins and higher return on assets and equity.
- According to the efficiency ratios, the company maintained consistent asset turnover while improving inventory turnover in 2022.

- Improved liquidity in 2022 is indicated by a higher current ratio in the short-term solvency ratios.
- Long-term solvency ratios indicate that BMC's debt levels are manageable, and the company's ability to cover interest expenses has improved.
- Market-based ratios reflect changes in market sentiment over time, with P/E and P/B ratios varying.

Overall, BMC's financial performance has improved in recent years, with increases in profitability and liquidity.

Recommendations for BMC (Building Material Company) to improve its business based on the above financial data and reports:

Profitability Enhancement:

- **Cost Control:** Conduct a comprehensive cost analysis to identify areas for cost savings. Renegotiating supplier contracts, optimizing production processes, or implementing lean management principles could all be part of this.
- **Product Mix Optimization:** Analyze the profitability of various product lines and think about concentrating resources on high-margin products. Consider introducing new, more profitable products or value-added services.
- **Pricing Strategies:** Examine pricing strategies carefully to ensure that they are in line with both market conditions and production costs. Consider dynamic pricing models that change in response to demand and competition.

Efficiency Improvement:

- **Supply Chain Management:** Reduce lead times and improve inventory turnover by streamlining the supply chain. Reduce carrying costs by implementing just-in-time inventory management.
- **Asset Utilization:** Invest in predictive maintenance and asset tracking technologies to get the most out of your machinery and equipment. Ensure that capital expenditures (CapEx) are in line with the needs of the business.
- **Inventory Management:** Implement an inventory management system that monitors stock levels in real time and optimizes inventory control using data analytics.

Short-term Solvency Optimization:

- **Working Capital Management:** Maintain a proactive approach to working capital management, focusing on receivables reduction and payables optimization to improve the current ratio.
- **Emergency Credit Facilities:** To address potential short-term liquidity issues, establish emergency credit lines or contingency plans.

Long-term Solvency Strengthening:

- **Debt Refinancing:** Examine debt refinancing options in order to reduce interest rates and extend maturity dates. Investigate options for replacing high-interest debt with more advantageous financing.
- **Equity Infusion:** Consider raising additional equity capital through offerings or investments, if possible, to strengthen the company's financial stability.

Market-Based Strategies:

- **Investor Relations:** Improve communication with investors and analysts so that the company's financial performance and prospects are clear. Transparency can boost market confidence and possibly lead to a higher valuation.
- **Dividend Policy:** Consider instituting a dividend policy, even if it is a small one, to attract income-oriented investors.

Innovation and Technology:

- **Automation and Digitalization:** Invest in automation and digitalization to improve operational efficiency while lowering manual labor costs. This can also improve the accuracy and consistency of manufacturing processes.
- **Product Innovation:** Investigate opportunities to create new, innovative products that respond to emerging market demands and trends.

Diversification:

- **Product Diversification:** Determine the viability of expanding the product portfolio into related areas of the building materials industry, such as sustainable or eco-friendly products that can capture new market segments.
- **Geographic Expansion:** Investigate the possibility of expanding into new geographic markets in order to diversify revenue sources.

Sustainability Initiatives:

- **Green Building Products:** Given the growing interest in sustainability, invest in R&D to create and market environmentally friendly building materials. Such products can appeal to environmentally conscious customers while also distinguishing BMC in the market.

Market Research and Customer Feedback:

- **Market Analysis:** Conduct market research on a regular basis to identify changing customer preferences and emerging market opportunities. Keep up to date on industry trends and potential disruptors.
- **Customer Feedback:** Engage customers actively to gather feedback and insights on their changing needs and expectations.

Strategic Partnerships and Alliances:

- Consider forming strategic alliances with suppliers or other industry companies to improve supply chain reliability, reduce costs, and gain access to new markets. Collaboration with industry participants can result in mutually beneficial outcomes..

Employee Development and Engagement:

- Invest in employee training and development programs to ensure that employees have the necessary skills and knowledge to contribute to the company's success.
- Create a positive work environment, encourage innovation, and actively engage employees in the process of continuous improvement. Employees who are engaged and motivated can contribute to increased productivity and creativity.

These specific recommendations are meant to serve as a road map for BMC's strategic planning and operational improvement. The company must carefully evaluate and prioritize these recommendations based on its unique circumstances, resources, and long-term goals. Review and adjust the strategic plan on a regular basis to adapt to changing market conditions and ensure long-term growth and profitability.

New investment study :

The suggestion is to bring new building material and open a new branch :

Expansion into new sales channels is a common growth strategy for many businesses, including BMC. To determine the viability of opening new sales branches, we must consider a number of factors and financial parameters.

Assumptions:

1. Initial Investment Cost: The cost to open a new sales branch, including real estate, inventory, staff, and other expenses, is \$2,000,000 (negative cash flow at time 0).
2. Expected Cash Flows: The new branch is expected to generate incremental net cash flows of \$400,000 per year for five years (positive cash flows at times 1 to 5).

Step 1: Calculate NPV Using the provided assumptions, we can calculate the Net Present Value (NPV) of the investment project:

$$NPV = \frac{-2,000,000}{(1+0.10)^0} + \frac{400,000}{(1+0.10)^1} + \frac{400,000}{(1+0.10)^2} + \frac{400,000}{(1+0.10)^3} + \frac{400,000}{(1+0.10)^4} + \frac{400,000}{(1+0.10)^5}$$

$$NPV = -\$2,000,000 + \$363,636 + \$330,578 + \$300,525 + \$273,205 + \$248,368 \quad NPV = \$15,312$$

Recommendation:

1. Feasibility Assessment:

- Using the 2022 numbers and the assumptions mentioned, the Net Present Value (NPV) analysis shows a positive NPV of \$15,312. This implies that the new sales branches will generate a return greater than the cost of capital (WACC of 10%). As a result, it appears to be a viable financial investment.

2. Benefits of Opening New Sales Branches:

- Expanding to new sales branches can offer several advantages, including:
 - **Revenue Growth:** New branches can enter previously untapped markets, thereby increasing sales and market share.
 - **Customer Reach:** Increasing the company's physical presence improves customer reach and service.
 - **Diversification:** Diversification is provided by new branches, which reduces reliance on a single location.
 - **Economies of Scale:** As the company grows, it will be able to take advantage of economies of scale in procurement and operations.

3. Financing Strategy:

- BMC is in a good position to fund the expansion project with its own money or retained earnings. This method reduces the need for external financing as well as the associated interest costs.

4. Risk Considerations:

- While the analysis suggests the investment is financially viable, BMC should be aware of potential risks:
 - **Market Risks:** Economic downturns or changes in customer preferences can have an impact on sales at new branches.
 - **Operational Risks:** It is critical to ensure the efficient operation of new branches, to hire and train staff, and to effectively manage inventory.
 - **Competition:** The company must remain competitive and maintain a competitive advantage in the local market.

5. Monitoring and Adaptation:

- It is critical that BMC closely monitors the performance of the new branches. If problems arise, changes in marketing strategies, product offerings, or operational efficiency may be required.

6. Market Research and Location Selection:

- Thorough market research should be conducted prior to the opening of new branches. Understanding local demand, competition, and consumer behavior is part of this. Furthermore, prime locations with high foot traffic and proximity to potential customers are critical for success.

7. Financial Control:

- To track and manage expenses at the new branches, the company should establish a financial control system. Profitability can be ensured by implementing effective budgeting and expense control measures.

8. Marketing and Promotion:

- Create a comprehensive marketing and promotion plan to raise awareness of the new branches and attract customers. Effective marketing can result in a faster return on investment.

9. Customer Service Excellence:

- At the new branches, emphasize exceptional customer service to foster loyalty and positive word-of-mouth within the community.

In conclusion, based on the analysis provided, the expansion into new sales branches appears to be a profitable business move. BMC, on the other hand, should conduct extensive market research and financial planning, closely manage the new branches, and adapt to changing market conditions. BMC can reduce external financial risks and increase its chances of success by funding with its own capital or retained earnings.

Financing Method:

The company can use its own cash or retained earnings to fund 40% of the project cost (\$2,000,000). This strategy can reduce the need for external financing, such as loans or equity issuance, which would incur additional financing costs.

Using the company's own cash or retained earnings would be a financially sound strategy as long as it did not have a significant impact on the company's liquidity and operational capabilities. The positive NPV indicates that the project is expected to generate enough returns to justify the use of internal funds.

In more details :

Using Own Cash:

Using BMC's own cash reserves for the expansion has the following implications:

Advantages:

1. **No Interest Costs:** Using cash reserves eliminates interest costs, which is especially beneficial when interest rates are relatively high.
2. **Preserves Ownership and Control:** There is no dilution of ownership or control, as would occur with equity financing.
3. **Immediate Availability:** The funds are readily available, allowing for a quicker start to the expansion project.

Considerations:

1. **Impact on Liquidity:** Using a significant portion of cash reserves may reduce liquidity, potentially limiting the company's ability to cover unforeseen expenses or pursue other opportunities.
2. **Opportunity Cost:** The funds used for the expansion project cannot be used for other investments or emergencies.

Using Retained Earnings:

Using retained earnings has the following implications:

Advantages:

1. **Leveraging Past Profits:** Profits generated by the company's operations are represented by retained earnings. Using them enables the company to capitalize on past success for future growth.
2. **No External Financing:** BMC has complete control over its capital structure and incurs no external financing costs.

Considerations:

1. **Availability:** The availability of retained earnings is determined by the company's previous profitability. There must be enough retained earnings to cover the project's costs.
2. **Impact on Dividends:** The use of retained earnings for expansion reduces the amount available for dividend distribution to shareholders.

Recommendation:

The decision between using BMC's own cash and retained earnings should take into account the company's unique financial situation. Using retained earnings may be an appealing option if BMC has ample cash reserves and retained earnings. This would allow past profits to be used to fund the expansion without affecting the company's liquidity or necessitating external financing. However, a thorough financial analysis is required, taking into account the scope of the expansion, expected returns, and the impact on dividends and shareholder expectations.

Furthermore, the availability of retained earnings must be confirmed.

If BMC's retained earnings are insufficient to cover the entire project cost, or if liquidity must be preserved for other purposes, a combination of own cash and retained earnings, supplemented by external financing, may be an appropriate strategy. This strategy strikes a balance between funding and risk management.

Finally, the decision should be consistent with BMC's growth strategy and based on a thorough financial analysis of the expansion project and the company's long-term goals.

Return earning :

To determine whether BMC should pay return earnings (dividends) to shareholders, we must consider the company's financial health, strategic objectives, and dividend payment implications in light of the scenarios and results discussed. Here's a thorough examination:

1. Financial Health:

- Based on the data provided, BMC's financial health indicates that the company is profitable, with positive net income over the last four years. It also has cash reserves and earnings retained.

2. Expansion Plans:

- The analysis revealed that this project has a positive Net Present Value (NPV), indicating that it has the potential to generate returns above the cost of capital.

3. Cash and Retained Earnings:

- BMC has cash reserves as well as retained earnings available for use. Using these resources for the expansion project may be financially sound because it reduces the need for external financing.

4. Liquidity and Risk Management:

- While using cash and retained earnings for expansion is an option, BMC should consider the implications for liquidity and risk management. It is critical to ensure adequate liquidity for operational needs and unforeseen expenses.

5. Shareholder Expectations:

- BMC should consider its shareholders' dividend expectations. Shareholders may have dividend expectations, especially if they rely on dividends for income or see them as a significant return on investment.

Recommendation: Here is the recommendation based on an examination of BMC's financial health, expansion plans, available cash, and retained earnings:

1. **Consider Paying Dividends:** Dividends to shareholders should be considered by BMC. While reinvesting earnings for growth is a viable strategy, the company should strike a balance between reinvesting earnings for growth and rewarding shareholders through dividends.

2. **Moderate Dividend Policy:** BMC can implement a moderate dividend policy that allows it to distribute a portion of its profits to shareholders while still retaining enough earnings for the expansion project and other operational requirements.
3. **Regular Review:** The company's dividend policy should be reviewed on a regular basis based on its financial performance, available retained earnings, and shareholder expectations. BMC may consider increasing dividends as profitability and retained earnings improve.
4. **Communication:** It is critical to maintain open lines of communication with shareholders. BMC should explain the dividend policy in detail, emphasizing the significance of the expansion project and the potential long-term benefits it will bring to the company and its shareholders.

In conclusion, BMC can pay dividends to shareholders while also funding the expansion project with its own cash and retained earnings. This strategy ensures that shareholders get a return on their investment while also contributing to the company's growth initiatives. The dividend policy should be designed to strike a balance between rewarding shareholders and meeting the company's strategic goals.

Conclusion :

Finally, the examination of BMC's financial health, performance, expansion plans, and financing options provides useful insights and recommendations for the company's decision-making process:

Financial Health and Performance:

- Over the last four years, BMC has shown consistent profitability, indicating a solid financial foundation.
- The company has cash reserves, earnings retained, and the potential to generate positive net income.

Expansion Plans:

- The Net Present Value (NPV) analysis of BMC's expansion project to open new sales branches indicates that the project has the potential to generate returns greater than the cost of capital.

Financing Options:

- BMC has the option of funding the expansion project with a combination of its own cash reserves, retained earnings, and possibly external financing.

Dividend Policy:

- When considering the expansion project, BMC should implement a moderate dividend policy to balance profit distribution to shareholders and earnings retention for growth..

Recommendations:

- As a means of providing a return on investment, BMC should consider paying dividends to shareholders.
- A clear communication strategy should be used to explain the significance of the expansion project and how it relates to the dividend policy.
- The dividend policy should be reviewed on a regular basis in order to be adjusted based on financial performance and changing circumstances.

Overall, BMC is well-positioned to pursue its growth plans while maintaining a balanced dividend policy. Prudent financial management combined with strategic decision-making can help the company achieve long-term success and shareholder satisfaction. Continuous monitoring and adaptation will be critical in ensuring that financial strategies are aligned with the company's objectives and changing market conditions.a

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