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The Effect Of Market Segmentation And Product Distribution On Product Sales Volume PT. Garuda Mas Perkasa Medan

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ABSTRACT

This research aims to determine and analyze the effect of market segmentation and product distribution on sales volume at PT Garuda Mas Perkasa Medan. The type of research in this study is quantitative with an associative approach. The population of this study were employees of PT Garuda Mas Perkasa Medan. The sample selection method uses saturated sampling, the number of samples used is 50 sample data. Before conducting research, first test the instrument with validity test and reliability test. Prerequisite test analysis includes normality test, multicollinearity test and heteroscedasticity test. The data analysis method uses multiple linear regression. The results of this study are in accordance with the first hypothesis, that market segmentation affects sales volume. This can be seen from the test results which show that the value of t_{hitung} 3.915 is greater than t_{tabel} 2.010 with a significance value of 0.000 less than 0.05. The results of this study are in accordance with the second hypothesis, that product distribution has an effect on sales volume. This can be seen from the test results which show that the value of t_{hitung} 3.580 is greater than t_{tabel} 2.010 with a significance value of 0.000 smaller than 0.05. The results of the study are in accordance with the third hypothesis, that market segmentation and product distribution simultaneously affect sales volume. This can be seen from the F test which shows a significance value smaller than 0.05, which is 0.000. Then Fcount> Ftable (26.845> 3.190).

Keywords: Market Segmentation, Product Distribution, Sales Volume

I. INTRODUCTION

Background of the Problem

To increase the company's sales volume, one of the methods that can be done is to do and pay attention to market segmentation whether it has been done correctly and in accordance with the target market. The application of market segmentation can help companies know the target market and identify markets into smaller groups with similar needs and make it easier for companies to meet different market needs.

In addition to conducting market segmentation appropriately, as one of the producers of rubber sandals that has many competitors, PT Garuda Mas Perkasa Medan also needs to ensure the quality, availability and adequacy of the number of products and the certainty of its product services in the market so as to increase production capacity and help increase the sales volume of its products.

PT Garuda Mas Perkasa Medan is a central distributor located in Medan City, Jl. Kol. Yos Sudarso KM 6.5 Medan, other distributors are located in the cities of Jakarta, Semarang and Surabaya. These 4 distribution points are where PT Garuda Mas Perkasa Medan distributes its products to consumers. In addition to using large distributors PT Garuda Mas Perkasa Medan also distributes its products directly through a store in one of the shopping centers in Medan. namely Thamrin Plaza Medan. In addition, PT Garuda Mas Perkasa Medan also sells its products online using e-commerce applications.

Poor distribution that does not run smoothly will have a negative impact on sales volume growth, causing sales targets to not be achieved. One of the causes of distribution inefficiency is the limitation of raw materials. Therefore, to prevent the occurrence of distribution problems, the P - ISSN : 2716-5132, E - ISSN : 2723-0783 Vol. 5 No. 2 July 2024 Page: 82 - 92

company needs to review and conduct an in-depth analysis in order to determine exactly what type of distribution channel used is relevant to the products produced so that product distribution can run smoothly so as to achieve sales targets.

Based on the description stated above, the researcher is interested in conducting research with the title "The Effect of Market Segmentation and Product Distribution on Product Sales Volume of PT Garuda Mas Perkasa Medan".

Problem Identification

- 1. The number of companies that sell similar products to PT Garuda Mas Perkasa Medan has led to intense competition.
- 2. The limited raw materials caused the distribution to not run smoothly.
- 3. Product sales targets at PT Garuda Mas Perkasa Medan that have not been achieved.

Problem Formulation

- 1. Does market segmentation have a positive and significant effect on the sales volume of PT Garuda Mas Perkasa Medan products?
- 2. Does product distribution have a positive and significant effect on the sales volume of PT Garuda Mas Perkasa Medan products?
- 3. Do market segmentation and product distribution have a positive and significant effect on the sales volume of PT Garuda Mas Perkasa Medan products?

II. LITERATURE REVIEW

A. Sales Volume

Dian Rahmayanti (2023: 107), sales volume is a quantitative measure used to assess the amount of goods / services sold by a company in a certain period.

Factors Affecting Sales Volume

Suroto (2023: 155), factors that can affect sales volume, namely:

- 1. Quality of goods, attracting consumers to buy products in the company
- 2. Consumer tastes, are not fixed and they can change
- 3. Customer service can increase sales volume.
- 4. Competition to lower selling prices with discounts

Sales Volume Indicator

Kotler and Keller (2016), Indicators of sales volume are:

- 1. Price
- 2. Promotion
- 3. Product quality
- 4. Distribution channel

B. Market Segmentation

Lawrence in the book I Gusti Bagus (2018: 9), market segmentation is the process by which the market is divided into customers consisting of people with similar needs and characteristics that mobilize them to respond to product or service offers and certain strategic marketing programs in the same way.

Market Segmentation Requirements

Armstrong in Selvi Yona (2022: 15), the conditions that must be considered in order to support segmentation efforts to be more effective, namely:

- 1. *Measurability, the* level of information about the nature of the buyers, and the extent to which these requirements can be measured either quality or quantitatively.
- 2. Accessibility, the degree to which the company can effectively separate marketing efforts to the selected segmentation whether the segmentation can be reached, aired effectively if there are obstacles to area, transportation, distance or because of certain community actors.
- 3. *Substantiality, the* selected market segmentation is broad enough for individual marketing, so that it will bring profits in the long run.
- 4. Distinguishability (*Actionabilit*), to what extent can the effective program be designed to be attractive and serve the market segment.

Market Segmentation Indicators

Suprapti in Eky Edriana (2023: 25), marketers must use a combination of the four variables to get a good segmentation method, namely:

- 1. Geographical Segmentation, divides the market into different geographical units such as countries provinces, districts, cities, and other regions.
- 2. Demographic Segmentation, divides the market based on demographic variables such as age, gender, marital status, family size, family life cycle, income, occupation, education, religion, race, and nationality divided into groups.
- 3. Psychographic Segmentation, divides the market into different groups based on social class, lifestyle, or personality traits.
- 4. Behavioral Segmentation, an attempt to group the market into different segments or groups based on time of purchase, desired benefits, user status, usage level, attitude and reaction to a product.

C. Product Distribution

Philip Kotler in Eka Santi (2023: 11), distribution is a collection of organizations that make a process of delivering a good or service for use or consumption by consumers (buyers).

Factors Affecting Distribution

Rita & Supardi (2021: 884), Factors that affect distribution activities, namely:

- 1. Number of products, the quantity of products produced will affect the distribution process
- 2. Product properties, there are durable and perishable product properties.
- 3. Infrastructure and communication facilities, the availability of infrastructure facilities, especially good transportation, will increase distribution activities.
- 4. The size of the region, the spread of the target consumers cause a long distribution process.
- 5. Cost factor, distribution is a costly activity.
- 6. Market factors, if the market shows a positive trend towards the product, it increases distribution activities.
- 7. Purchasing patterns, purchasing regulations and feedback from distributors will be taken into consideration for the sustainability of the distribution process.
- 8. Producer / company factors, producers must pay attention to consumer demand for a product so that they really know the nature of the product.

Distribution Indicator

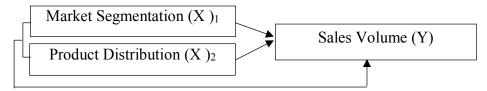
Heru Sucianto Tjia, Suharno (2018: 94), distribution channels can be measured based on:

- 1. Availability of goods, product availability (stock) of goods at the distribution channel stage.
- 2. Ordering products, the distribution process from the product to the manufacturer, the order process, to the customer.

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- 3. Speed in delivery, the route on which the goods are delivered from the limits set by the manufacturer.
- 4. Ease of obtaining products, ease of obtaining a product with the correct distribution service.

Picture of the Thinking Framework



Research Hypothesis

- H₀: There is no effect of market segmentation on the sales volume of PT Garuda Mas Perkasa Medan products.
- H_1 : There is an effect of market segmentation on the sales volume of PT Garuda Mas Perkasa Medan products.
- H_0 : There is no effect of product distribution on the sales volume of PT Garuda Mas Perkasa Medan products.
- H₂: There is an effect of product distribution on the sales volume of PT Garuda Mas Perkasa Medan products.
- H_0 : There is no effect of market segmentation and product distribution on the sales volume of PT Garuda Mas Perkasa Medan products.
- H₃: There is an effect of market segmentation and product distribution on the sales volume of PT Garuda Mas Perkasa Medan products.

III. RESEARCH METHODS

Sandu & M. Ali Sodik (2015: 63), population is a generalization area consisting of objects or subjects that have a quantity of certain characteristics set by researchers to study and then draw conclusions. Sugiyono in Dani Nur Saputra (2022: 30), the sample is part of the number and characteristics of the population.

This research was conducted at PT Garuda Mas Perkasa Medan in 2023. The population of this study were employees of the central distributor of PT Garuda Mas Perkasa Medan, totaling 50 employees. The sample of this research is 50 employees of PT Garuda Mas Perkasa Medan in 2023. Data collection methods: questionnaires, observation, interviews, documentation. Data Analysis Techniques: validity test, reliability test, classical assumption test (normality test, multicollinearity test), hypothesis testing (multiple linear regression, t test, f test, determination test).

IV. RESULT AND DISCUSSION

Tabel Operational Definition of Variables

| - **** - * * * * * * * * * * * * * * * | | | | | | | |
|--|------------|--|-----------|-------|---|--|--|
| Variables | Definition | | Indicator | Scale | l | | |

| Market Segmentation (X1) | The process of dividing the <i>total market</i> of goods and services into smaller, more internally homogeneous groups. (Ari Setyaningrum and Jusuf Udaya 2015:50) | Geographical Demographics Psychographic Behavior (Suprapti in the book Eky Endriana, 2023: 25) | Likert |
|--------------------------------|---|---|--------|
| Distribution (X2) | A collection of organizations that make a process of delivering goods or services for use or consumption by consumers (buyers). (Philip Kotler in Eka Santi's book 2023: 11) | Availability of goods Order process Delivery speed Product convenience (Heru Sucianto Tjia, Suharno, 2018: 94) | Likert |
| Sales Volume (Y) | A quantitative measure used to assess the amount of goods/services sold by a company in a certain period. (Dian Rahmayanti 2023: 107) | Price Promotion Product quality Distribution channels. (Kotler & Keller, 2016) | Likert |

IV.RESULT AND DISCUSSION

Respondent Identity Table

| No. | Demo | ographic Factors | Total | % |
|-----|------------------|----------------------------------|-------|---------|
| | | Male | 19 | 38.00% |
| 1 | Gender | Female | 31 | 62.00% |
| | | Total | 50 | 100% |
| | | 17-20 | 10 | 20.00% |
| 2 | A 90 | 21-25 | 24 | 48.00% |
| 2 | Age | >25 | 16 | 32.00% |
| | | Total | 50 | 100% |
| | | HIGH SCHOOL | 36 | 72.00% |
| 3 | 3 Last Education | S1 | 14 | 28.00% |
| | | Total | 50 | 100.00% |
| | Revenue | IDR 2,000,000 - IDR 2,500,000 | 6 | 12.00% |
| 4 | | IDR 2,500,000 - IDR 3,000,000 | 27 | 54% |
| | | > IDR 3,000,000 | 17 | 34.00% |
| | | Total | 50 | 100% |

Source: Primary Data (processed) 2023

Table of Market Segmentation Variable Validity Test Results (X1)

| | Tuble of Market Segmentation variable valid | ity restrict | suits (111) | 1 |
|---------|---|--------------|-------------|-------|
| No · | Statement | r-count | r-table | Ket |
| 1 | Swallow sandals are the most widely used flip | 0,727 | 0,278 | Valid |

| | flops in the city / village | | | |
|---|--|-------|-------|-------|
| 2 | Swallow sandals are suitable for use in different regions with different climates. | 0,603 | 0,278 | Valid |
| 3 | Swallow sandals can be used by everyone | 0,667 | 0,278 | Valid |
| 4 | Swallow sandals have an affordable price | 0,701 | 0,278 | Valid |
| 5 | Swallow sandals are in demand by all walks of life | 0,760 | 0,278 | Valid |
| 6 | Swallow sandals always make innovations in accordance with current trends | 0,794 | 0,278 | Valid |
| 7 | Swallow sandals are only suitable for light daily activities | 0,665 | 0,278 | Valid |
| 8 | Swallow sandal products have strong durability, are not quickly damaged and are comfortable. | 0,778 | 0,278 | Valid |

Source: Data Processed by the Author SPSS (2023)

Based on the table above, it can be seen that df = n-k (50-2 =48), the data r_{tabel} obtained from the statistical table is 0.278. In this case the r_{tabel} value of all statement items is greater than r_{tabel} . Thus it can be concluded that all items are valid.

Table of Product Distribution Variable Validity Test Results (X2)

| No. | Statement Item | r-count | r-table | Ket |
|-----|--|---------|---------|-------|
| 1 | Employees always check the availability of goods for all types of sandals | 0,798 | 0,278 | Valid |
| 2 | Employees always provide information about the availability of goods to consumers | 0,855 | 0,278 | Valid |
| 3 | Employees serve orders from retailers and consumers | 0,740 | 0,278 | Valid |
| 4 | Consumers can order products through available distributors, stores, and <i>e-commerce</i> . | 0,801 | 0,278 | Valid |
| 5 | Employees always check the delivery time of goods | 0,802 | 0,278 | Valid |
| 6 | Employees always prepare and deliver ordered goods quickly | 0,814 | 0,278 | Valid |
| 7 | The product ordering process can be done online through e-commerce | 0,733 | 0,278 | Valid |
| 8 | Products are easy to find | 0,468 | 0,278 | Valid |

Source: Data Processed by the Author SPSS (2023)

Based on the table above, it can be seen that df = n-k (50-2 =48), the data r_{tabel} obtained from the statistical table is 0.278. In this case the r_{tabel} value of all statement items is greater than r_{tabel} . Thus it can be concluded that all items are valid.

Table of Sales Volume Variable Validity Test Results (Y)

| Tuble of Sules volume variable variately Test Results (1) | | | | | | | |
|---|--|---------|---------|-------|--|--|--|
| No. | Statement Item | r-count | r-table | Ket | | | |
| 1 | The price of the products offered is very affordable so that it can compete with similar manufacturers | 0,808 | 0,278 | Valid | | | |
| 2 | The price of the product offered is in accordance with the benefits obtained by consumers | 0,866 | 0,278 | Valid | | | |
| 3 | Employees always provide interesting product information | 0,793 | 0,278 | Valid | | | |
| 4 | Product promotion can not only increase sales but | 0,820 | 0,278 | Valid | | | |

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| | also stabilize production. | | | |
|---|--|-------|-------|-------|
| 5 | Product quality is in accordance with the price offered | 0,786 | 0,278 | Valid |
| 6 | PT. GMP always provides quality products so that they meet consumer expectations | 0,814 | 0,278 | Valid |
| 7 | PT GMP has distribution channels that are spread across various regions | 0,834 | 0,278 | Valid |
| 8 | Smooth distribution is the most important factor to increase sales volume. | 0,844 | 0,278 | Valid |

Source: Author Processed Data SPSS (2023)

Based on the table above, it can be seen that df = n-k (50-2 =48), the data r_{tabel} obtained from the statistical table is 0.278. In this case the r_{tabel} value of all statement items is greater than r_{tabel} . Thus it can be concluded that all items are valid.

Reliability Test Results Table

| iteliability Test Itesaits Tuble | | | | | | |
|----------------------------------|----------------------|------------------------------|-------------|--|--|--|
| Variables | Reliability Value | Reliability Testing Value | Description | | | |
| Market Segmentation | 0,857 | 0,600 | Reliable | | | |
| Product Distribution | 0,894 | 0,600 | Reliable | | | |
| Sales Volume | 0,928 | 0,600 | Reliable | | | |

Source: SPSS Processed Data (2023)

Based on the table above, it is known that the coefficient value (*Cronbach's Alpha*) for the market segmentation variable (X1) is 0.857> 0.600. The product distribution variable (X2) is 0.894> 0.600 and the sales volume variable (Y) is 0.928> 0.60. Thus, from this explanation, it can be concluded that all variables are *reliable* (feasible).

Multiple Regression Analysis Test

Descriptive Statistics

| 2 0001 1501 0 2000 2000 | | | | | | | |
|-------------------------------|----|----|----|-------|-------|--|--|
| Descriptive Statistics | | | | | | | |
| N Minimum Maximum Mean Std. D | | | | | | | |
| Market Segmentation | 50 | 25 | 40 | 34,96 | 4,165 | | |
| Product Distribution | 50 | 17 | 40 | 34,34 | 4,809 | | |
| Sales Volume | 50 | 26 | 40 | 34,86 | 4,189 | | |
| Valid N (listwise) | 50 | | | | | | |

| Coefficients ^a | | | | | | | |
|-------------------------------------|----------------|------------|--------------|-------|------|--|--|
| | Unstandardized | | Standardized | | | | |
| Model | Coefficients | | Coefficients | t | Sig. | | |
| | В | Std. Error | Beta | | | | |
| 1 (Constant) | 7,115 | 3,831 | | 1,857 | ,070 | | |
| Market | ,446 | ,114 | ,444 | 3,915 | ,000 | | |
| Segmentation | | | | | | | |
| Product | ,354 | ,099 | ,406 | 3,580 | ,001 | | |
| Distribution | | | | | | | |
| a. Dependent Variable: Sales Volume | | | | | | | |

Then it can be seen that the regression equation in this study is:

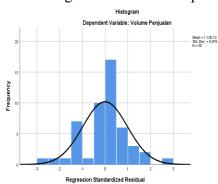
$$Y = 7.115 + 0.446.X1 + 0.354.X2 + e$$

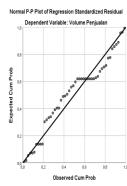
Normality Test

| One- | Samn | le | Kn | nogorov | -Sm | irnov | Test |
|-----------------|------|----|-----|----------|-----|---------|------|
| \// 11C- | . , | | 120 | 11020101 | | 11 1117 | LUSL |

| | Unstandardized Residual | | |
|--|-------------------------|------------|--|
| N | 50 | | |
| Normal Parameters ^{a,b} | Mean | ,0000000 | |
| | Std. Deviation | 2,86228171 | |
| Most Extreme Differences | Absolute | ,109 | |
| | Positive | ,100 | |
| | Negative | -,109 | |
| Test Stati | ,109 | | |
| Asymp. Sig. (2 | ,192° | | |
| a. Test distribution is No | | | |
| b. Calculated from data. | | | |
| c. Lilliefors Significance Correction. | | | |

Based on the table above, it can be seen that the Asymp. Sig. (-2 tailed) is more than 0.05, which is 0.192, which means that the data is normally distributed. So it can be concluded that the regression model has passed the normality test.





Histogram Image

Normal P-Plot Picture

The figure above shows that the regression model has fulfilled the assumptions previously stated, so the data in this regression model tends to be normal.

Multicollinearity Test

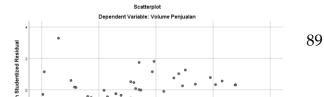
| | Coefficients ^a | | | | |
|-------------------------------------|---------------------------|-------------------------|-------|--|--|
| Model | | Collinearity Statistics | | | |
| | | Tolerance | VIF | | |
| 1 | Market Segmentation | ,773 | 1,294 | | |
| Product Distribution | | ,773 | 1,294 | | |
| a. Dependent Variable: Sales Volume | | | | | |

Based on the table shows that market segmentation with a Tolerance value of 0.773 and a VIF value of 1.294. Product distribution Tolerance value 0.773 and VIF value 1.294. So it can be concluded that the overall variable does not occur multicollinearity because each variable has a Tolerance value> 0.1 and a VIF value < 10.00.

Heteroscedasticity Test

From the scatterplot graph above, it is clear that there is no particular pattern because the points spread irregularly above and below the 0 axis on the y axis. So it can be concluded that there are no symptoms of heteroscedasticity

Parallel Test Image



| Coefficients ^a | | | | | | |
|-------------------------------------|--------------|----------------|------------|--------------|-------|------|
| Model | | Unstandardized | | Standardized | | |
| | | Coefficients | | Coefficients | t | Sig. |
| | | В | Std. Error | Beta | | |
| 1 | (Constant) | 7,115 | 3,831 | | 1,857 | ,070 |
| | Market | ,446 | ,114 | ,444 | 3,915 | ,000 |
| | Segmentation | ,440 | | | | |
| | Product | ,354 | ,099 | ,406 | 3,580 | ,001 |
| | Distribution | ,334 | | | | ,001 |
| a. Dependent Variable: Sales Volume | | | | | | |

Based on the test results that can be seen from the table above, the $_{tcount}$ for the market segmentation variable is 3.915 for an error of 5% for a 2-party test and df = n-k (50-2 = 48), obtained t table 2.010. In this case tcount = 3.915> $_{ttable}$ = 2.010. Based on the test results that can be seen from the table above, the $_{tcount}$ for the product quality variable is 3.580 for an error of 5%, 2 party test and df = n-k (50-2 = 48), obtained t $_{table}$ 2.010. In this case $_{thitung}$ = 3.580> $_{ttabel}$ = 2.010.

F Statistical Test

| | ANOVA ^a | | | | | |
|-------------------------------------|--|----------------|----|-------------|--------|-------------------|
| Model Su | | Sum of Squares | Df | Mean Square | F | Sig. |
| | Regression | 458,580 | 2 | 229,290 | 26,845 | ,000 ^b |
| 1 | Residuals | 401,440 | 47 | 8,541 | | |
| | Total | 860,020 | 49 | | | |
| a. Dependent Variable: Sales Volume | | | | | | |
| b. | b. Predictors: (Constant), Product Distribution, Market Segmentation | | | | | |

Based on the table, it can be seen with a significance level of 5% and the number k = 2, and df (n-1) = 50 (n-k-1) or 50-2-1 = 47. So that the F table is obtained at 3.190. From the test results obtained $_{Fcount}$ of 26.845 with a sig value of 0.000, it means that $_{Ftable}$ < F $_{count}$ and sig value < 0.05. So it can be concluded that market segmentation and product distribution have a joint (simultaneous) and significant effect on sales volume.

Coefficient of Determination (R)²

| Model Summary ^b | | | | |
|--|-------|----------|-------------------|----------------------------|
| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
| 1 | ,730a | ,533 | ,513 | 2,923 |
| a. Predictors: (Constant), Product Distribution, Market Segmentation | | | | |
| b. Dependent Variable: Sales Volume | | | | |

Based on the results of the table, the R Square value (R²) is 0.533, meaning that the relationship between the independent variables, namely market segmentation and product distribution with the dependent variable, namely sales volume, is 53.3%. While the remaining 46.7% is explained by other variables not included in this research model.

V. CONCLUSION

The results of this study are in accordance with the first hypothesis, that market segmentation affects sales volume. This can be seen from the test results which show that the value of t_{hitung} 3.915 is greater than t_{tabel} 2.010 with a significance value of 0.000 less than 0.05. So it means that market segmentation has an effect on sales volume.

- 1. The results of this study are in accordance with the second hypothesis, that product distribution affects sales volume. This can be seen from the test results which show that the value of t_{nitung} 3.580 is greater than t_{tabel} 2,010 with a significance value of 0.000 less than 0.05. So it means that product distribution has an effect on sales volume.
- 2. The results of the study are in accordance with the third hypothesis, that market segmentation and product distribution simultaneously affect sales volume. This can be seen from the F test which shows a significance value smaller than 0.05, which is 0.000. Then Fcount> Ftable (26.845> 3.190).

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