

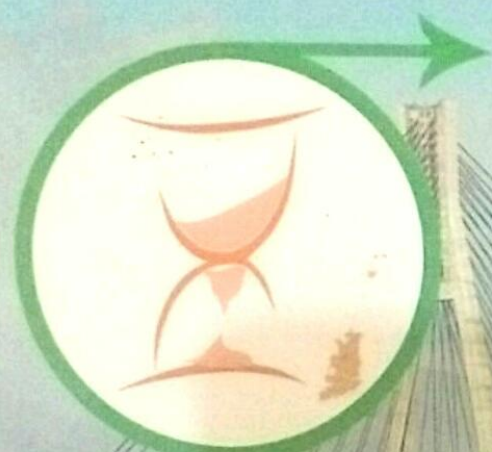
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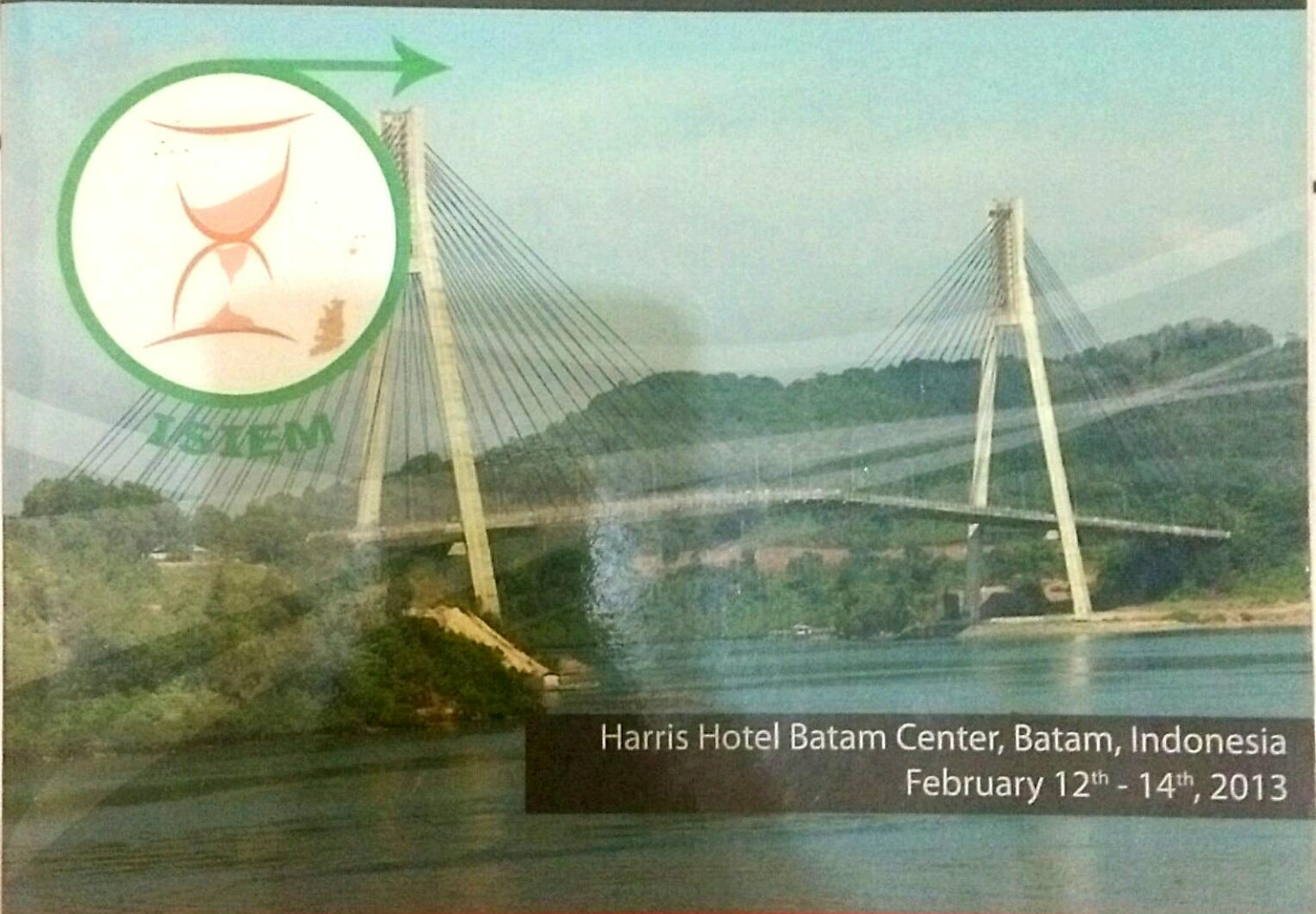
# Proceeding

**6<sup>th</sup> INTERNATIONAL SEMINAR ON INDUSTRIAL ENGINEERING AND MANAGEMENT (6<sup>th</sup> ISIEM)**

*"Sustainable innovation on enhancing industrial management, technology, and information"*



ISIEM



Harris Hotel Batam Center, Batam, Indonesia  
February 12<sup>th</sup> - 14<sup>th</sup>, 2013

Organized by:



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# Proceeding

The 6<sup>th</sup> International Seminar  
on Industrial Engineering and Management (6<sup>h</sup> ISIEM)

Harris Hotel Batam Center, Batam, Indonesia  
February 12<sup>th</sup> – 14<sup>th</sup>, 2013

Organized by :  
**Industrial Engineering Department of**



**UAI**  
Universitas Al Azhar Indonesia



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Universitas Esa Unggul



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# FOREWORD

In this 6<sup>th</sup> International Seminar on Industrial Engineering and Management (ISIEM) Seminar issues is **Sustainable on Enhancing Industrial Management, Technology, and Information**, and wide area of Industrial Engineering including Quality Engineering, Supply Chain Management, Production System, Operation Research, Decision Support System, Ergonomics, Artificial Intelligent, Industrial Management, and Entrepreneurship.

All of papers received were review by a peer of reviewers and published for 55 papers from various Indonesian University and abroad, and be presented by 52 presenters.

Historical, the ISIEM is an annual seminar event organized by 6 universities that run Industrial Engineering Department, which are Triskati University Jakarta, Atmajaya Catholic University Jakarta, Tarumanagara University Jakarta, Esa Unggul University Jakarta, Al-Azhar Indonesia University Jakarta, and Pasundan University Bandung. The seminar took different places annually in all over Indonesia.

I would like to thank you to all committees for the efforts, all Reviewers, Mr. Predeep Nair from Schneider Manufacture Batam, Prof. Dr. Rosnah Mohd. Yusuff from Department of Mechanical and Manufacturing Engineering Universiti Putra Malaysia, Prof. Frits Blessing from Rotterdam University/Rotterdam Business School, for the Keynote Speeches, all Participants to join the Seminar, and everybody who helped us to make this seminar happen.

At last, enjoy your stay in Batam and have a good Seminar.

Ir. Wahyukaton, MT.  
(Pasundan University Bandung)

Chairman of Committee

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# AGENDA

## Day 1 (February 12<sup>th</sup>, 2013)

Opening ceremony

Gala Dinner

Keynote #1

Mr. Pradeep Nair

Plant General Manager PT Schneider Electric Manufacturing Batam

## Day 2 (February 13<sup>th</sup>, 2013)

Keynote #2

**Prof Rosnah Mohd Yusuff**

Department of Mechanical and Manufacturing Engineering, Faculty of  
Engineering, Universiti Putra Malaysia

*"Innovations In Manufacturing For Sustainable Growth"*

Coffee Break

Parallel Session #1

Lunch

Keynote #3

**Prof. Frits Blessing**

DINALOG & Rotterdam University of Applied Sciences

*"I Have To Change To Stay The Same"*

Coffee Break

Parallel Session #2

## Day 3 (February 14<sup>th</sup>, 2013)

**Tour to Singapore**

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## ANALYSIS SERVICE OF SATISFACTION OF INTERCITY BUS WITH IPA AND CSI METHOD

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Email : [dlucitasari@yahoo.co.id](mailto:dlucitasari@yahoo.co.id)

### ABSTRACT

Sharp competition among companies in intercity bus services needs improvement of the quality of service for keeping the customer loyal. This study aims to improve the quality of inter-city bus services in order to increase the customer satisfaction. Importance Performance Analysis (IPA) and methods Customer Satisfaction Index (CSI) were used for analysis. IPA measures the level of service quality based on five dimensions: tangibles (7 service attributes), reliability (5 service attributes), responsiveness (4 service attributes), assurance (7 service attributes), and empathy (5 service attributes). CSI measures the level of overall customer satisfaction. Unsatisfied service quality attributes of intercity bus were facilities in the bus (passenger seats, air conditioner, toilet, TV, air freshener, wi-fi), the material brochures services, other facilities provided (such as mineral water / snacks, souvenirs, membership card), leisure facilities (such as bus, terminal), departure and arrival punctuality, ability to assist customers difficulties, intention or effort to build customer interest and willingness to accept criticism and suggestions.

**Key words:** customer satisfaction, importance performance analysis, customer satisfaction index

### 1. INTRODUCTION

The competition on business of transportation services continues to increase, so inter-city bus companies require to improve the quality of service for keeping the customer does not move to other transportation services. The quality of service becomes crucial in maximizing the company's customer satisfaction. The quality of good services viewed from the service provider and the user service itself. There are five dimensions that are designed to measure the quality. There are tangibles, reliability, responsiveness, assurance, and empathy (Kotler, 1998). The measurement is based on the difference between the expected value and the performance value of consumer. Importance Performance Analysis (IPA) is an analytical method to assess the extent of importance rate and service rate of customer satisfaction. Customer Satisfaction Index (CSI) is a measurement method to determine the level of overall customer satisfaction taking into account the importance of the attributes quality of service.

Many experts define services, including according to Kotler (1998) service is any act or performance offered by one party to the other party that the intangible and not cause any transfer of ownership. Quality of service is a dynamic condition that affects the products, services, people, processes and environments that meet or exceed expectations (Tjiptono, 2001). So the definition of service quality can be interpreted as an effort to fulfill the needs and desires of customers as well as the delivery accuracy to compensate customer expectations. Customer satisfaction is a condition in which the desires, expectations and customer requirements are met or exceeded over the lifetime of the product or service. Achieving customer satisfaction leads to company loyalty.

### 2. METHODS

This study was conducted in a public bus transportation company called the PO, in July 2012. The variables in this study based on five dimensions of service quality are tangibles, reliability, responsiveness



assurance, and empathy. Prior to data collection, pre-study was conducted by tracking the attributes that affect the quality of service at inter city bus companies. Data for analysis was obtained by providing a list of questions to the respondent. In this measurement, each respondent was asked of their opinion on a statement in 5 level Likert scale. Sample collection was conducted by using systematic random sampling. Determination of minimum sample size was determined using the following formula.

$$N = \frac{(Z_{\alpha/2})^2 p \cdot q}{e^2} \quad (1)$$

Where:

- N = number of samples required
- p = Opportunities for questionnaires that can be processed
- q = Opportunities for questionnaires that can not be processed
- Z<sub>α</sub> = value of normal distribution table
- e = rate of error (5%)

Validity test is used to calculate the value of correlation (r) between the data on each of the statements and the total score. A variable is declared invalid if counted r overall indicator is positive and greater than table r Excel 2007 and Statistical Product and Service Solutions (SPSS) 16 for windows program was use for analysis.

Importance Performance Analysis (IPA) is the concept of multi-attribute models to identify the strengths and weaknesses of market supply by using two criteria: the relative importance of attributes and customer satisfaction. It is initially conducted by identify attributes that are relevant to the situation observed choices. List of attributes can be developed with reference to the literature, conducting interviews, and using managerial judgment. After determining the proper attributes, consumers were asked with two questions. One is the attribute that stands out and the second is the performance of companies that use these attributes. Using mean, median or measurement ranking, attribute importance and performance scores were collected and classified into categories of high or low, then pair the two sets of rankings. Each attribute

is placed into one performance of the four quadrants of performance ranked. Mean score performance and interest are used as coordinates to plot the individual attributes of the two-dimensional matrix shown in Figure 1.

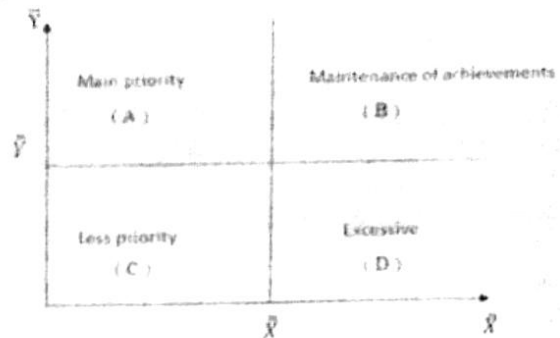


Figure 1. Diagram Importance level and Performance Levels.

$\bar{X}$  is "weighted average respondents score of the level of product performance attributes;  $\bar{Y}$  is "weighted average respondents score of the degree of importance of product attributes;  $\bar{X}$  is "The average of the weighted average of respondents' assessment of the performance attributes product;  $\bar{Y}$  is "The average of the weighted average of respondents' assessment of the importance of product attributes. A: Indicates factors or attributes that are deemed to affect the customer, including the elements of services that are considered very important, but the products / services are not satisfactory so that customers are not satisfied. B: Shows the basic elements that already exist in the product / service that shall be maintained and considered very important and satisfying. C: Shows the effect of factors that are less important to the customer, mediocre existence and considered less important and less satisfactory. D: Indicates the factors that affect customers less important but redundant implementation, considered less important but very satisfying.

Analysis of the Importance level and performance level was measured using a Likert scale (5 levels). Likert scale is used to measure the attitudes, opinions and perceptions of a person or group or event social phenomena (Table 1). Based on the analysis of the level of interest and the level of satisfaction, it is obtained two variables ( $\bar{X}$  and  $\bar{Y}$ ) for performance levels and consumer importance level.

Table 1. Score of importance and performance Levels

Score	Importance level	Performance Levels
1	very unimportant	Very bad
2	Unimportant	bad
3	Ordinary	ordinary
4	Important	Good
5	Very important	very Good

Table 2. Criteria Customer Satisfaction

No	CSI Value	CSI Criteria
1	0,81 – 1,00	very Satisfied
2	0,66 – 0,80	Satisfied
3	0,51 – 0,65	quite Satisfied
4	0,35 – 0,50	Less Satisfied
5	0,00 – 0,34	Dissatisfied

The next step is to map the level of customer satisfaction into the Cartesian diagram. There are two variables: the variable  $\bar{X}$  shows average scores of consumer assessment of the level of performance while variable  $\bar{Y}$  indicated by an average score of importance of the attribute. The value of X and Y is used as a coordinate pair attribute points that positioned the existence of an attribute in the diagram.

$$\bar{X}_t = \frac{\sum X_t}{n}$$

$$\bar{Y}_t = \frac{\sum Y_t}{n}$$

$$\bar{X} = \frac{\sum \bar{X}_t}{k}$$

$$\bar{Y} = \frac{\sum \bar{Y}_t}{k}$$

Where :

- $X_t$  = Score average every attribute t
- $Y_t$  = Score average every attribute t
- n = Total respondents
- k = number of attributes that can affect customer satisfaction

Customer Satisfaction Index (CSI) was used to determine overall customer satisfaction with the approach that considers the level of expectation of service quality attributes measure. CSI measurement method according to Stratford in Hannie (2008), includes the following calculation steps:

1. Weighted factors (WF): change the value of the average level of expectation into percentage of the total value of the average level of expectations for all tested attributes
2. Weighted scores (WS): the value of the multiplication of the performance (satisfaction) average levels of each attribute by weighted factors (WF) of each attribute.
3. Weighted total (WT): quantifies the weighted score (WS) of all attributes of service quality.
4. Satisfaction index: the weighted total (WT) is divided by maximum scale (5), and then multiply by 100%.

Satisfaction level of the respondents can be seen from the level of consumer or customer satisfaction criteria (Table 2).

### 3. RESULTS AND DISCUSSION

The data in Table 3 are attributes that were used in the questionnaire for customers of inter city bus.

Table 3. Questionnaire of Service attributes

Service Quality Dimension	Service attribute
Tangible	1. Facilities in the bus (passenger seat, air conditioner, toilet, TV, room fragrances, Wi-fi)
	2. The type and sophistication of the equipment of bus
	3. Brochure material which introduces the facilities
	4. Another provided facilities (mineral water, snacks, souvenirs, member card)
	5. Completeness of supporting provided facilities (office, waiting room, toilets)
	6. Leisure facilities (Bus, Terminal)
	7. Employee appearance overall.
Reliability	8. Clarity and detail of provided information
	9. Timeliness of departure and arrival
	10. Ability to assist customers difficulties
	11. Accuracy of keeping promise
	12. Affordability of price
Responsive-ness	13. The speed and accuracy of the presented work
	14. Response to customer demand
	15. Speed of administrative services
	16. Ease of access for booking / ticketing
Assurance	17. Employee loyalty and honesty
	18. Given the company confidence
	19. Feel safe and comfortable in using the services
	20. Competencies, skills and knowledge of employees
	21. Friendliness and employee comfort
	22. insurance
	23. The company's reputation in the customer perception

Table 3. Questionnaire of Service attributes (cont.)

Service Quality Dimension	Service attribute
Empathy	24. Communication between employees and customers
	25. Understanding the wants and needs of enterprise customers
	26. Conformity hours with customer needs
	27. Intention effort to build customer interest
	28. Willingness to accept criticism and suggestions

All the variables in questioners can be used and can be trusted to obtain the necessary data, because they have a correlation coefficient of > 0.2385. Reliability test of all items or questions used in this study were using Cronbach alpha formula, where in general the data are considered reliable if the alpha value cronbachnya > 0.6 (Table 4).

Table 4. Reliability Test

Variable	Croanboach alpha		information
	Performance Level	importance level	
Tangible	0,651	0,641	RELIABLE
Reliable	0,652	0,605	RELIABLE
Responsiveness	0,685	0,692	RELIABLE
Assurance	0,683	0,638	RELIABLE
Empathy	0,788	0,624	RELIABLE

Based on Table 4. the reliability test results obtained Cronbach alpha > 0.61, so that the variables used in the questionnaire is very reliable.



Figure 2. Diagram Cartesian Attributes Quality Service inter-city bus

Based on the analysis of the IPA diagram in Figure 2., efforts to improve the quality of

service should be transferred to some very important factors considered by consumers but the performance is still lacking, as factors shown in quadrant A. Business improvements should be carried out in intercity bus, as follows:

1. Adding the toilet facilities in the bus, always use TV / DVD, more fragrant, and adding wi-fi network.
2. Adding information on the service quality brochure or bulletin board.
3. Providing of mineral water / snack on each departure, and to retain customers that are loyal to the card member, discount prices, as well as souvenirs from the company.
4. Arrival timeliness at the destination in order to get more attention.
5. Employees more serious in resolving the difficulties of customers
6. Should pay attention to customer needs for rebuilding the company's interest
7. Adding box of criticisms and suggestions to evaluate the performance improvement of service quality.

By the business improvement of service quality, the intercity bus company will be better than it competitor. The customers are satisfied and automatically become loyal customers, and became profitable for company.

Based on the data analysis of Customer Satisfaction Index (CSI) to attribute the quality of service of intercity bus was 75.56%. This means that the level of total satisfaction lies between the interval of 66% - 80%, which means the customers were satisfied with the whole performance attribute of quality of service. However, companies should improve customer service of performances that were considered lacking in quadrant A of Cartesian diagram IPA in order to improve customer satisfaction.

#### 4. CONCLUSIONS AND SUGGESTIONS

##### Conclusions

Based on the analysis results can be concluded as follows:

1. Unsatisfied service quality attributes of intercity bus were facilities in the bus

(passenger seats, air conditioner, toilet, TV, air freshener, wi-fi), the material brochures services, other facilities provided (such as mineral water / snacks, souvenirs, membership card), leisure facilities (such as bus, terminal), departure and arrival punctuality, ability to assist customers difficulties, intention or effort to build customer interest and willingness to accept criticism and suggestions.

2. Improvement efforts should be made on service attributes in quadrant A (top priority):
  - a. Adding the toilet facilities in the bus, always use TV / DVD, more air freshener, and adding internet wi-fi network
  - b. Adding information on the service quality brochure or bulletin board.
  - c. Providing of mineral water / snack on each departure, and to retain customers that are loyal to the card member, discount prices, as well as souvenirs from the company.
  - d. Arrival timeliness at the destination in order to get more attention.
  - e. Employees more serious in resolving the difficulties of customers
  - f. Should pay attention to customer needs for rebuilding the company's interest
  - g. Adding box of criticisms and suggestions to evaluate the performance improvement of service quality.

### Suggestions

1. Attributes that have shown good performance, should maintained so that customers feel satisfied with the performance of the company, because satisfied customers will be automatically loyal to and profitable for company.
2. Further research should be conducted to determine the effect on the level of customer loyalty.
3. Companies should do regular surveys on customer satisfaction with the objective of identifying the needed services and following by upgrading or improvement.

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