

# **EVALUATION OF QUALITY MANAGEMENT CONSTRUCTION OF ARCHIVE BUILDING INSTITUTIONS OF SAMARINDA KALIMANTAN EDUCATION QUALITY EDUCATION**

## **ABSTRACT**

The number of Construction Work in Indonesia continues to grow and increase where to facilitate various facilities and infrastructure, but the increase in Construction work must be accompanied by an increase in competent experts so that the existing Standardization or Quality Management can be fulfilled properly. In the construction project there is a party that functions to oversee the network of quality fulfillment processes in a project that plays a major role in the process of minimizing errors that will arise, either because of ignorance or mistakes by workers, and various other possibilities. So that a certain standard or standard is achieved. called Quality Management .

In this study using the evaluation method checklist or checklist to control the stages of foundation and poorplat work in the LPMP samarinda building.

From the evaluation results obtained the list of referrals used by consultants is the assumption of supervisor consultants, the list of referrals used is different from the standards set by SNI-1734-1989-F and the SBW-08 Module There are many stages of work that are not listed in the list of quality application his.

**Keywords: see list, checklist method, standardization, quality management**

## ***ABSTRACT***

*The number of Construction Jobs in Indonesia was increased and increased where to facilitate various facilities and infrastructure, but the increase in construction work must be accompanied by an increase in competent experts so that the existing Standardization or Quality Management can be met properly. In a construction project there is a part that functions to supervise the nets, the quality fulfillment process in a project that plays a major role in the process of minimizing errors that will arise, either due to incomprehension or mistakes by workers, and various other possibilities . called Quality Management.*

*In this study using the checklist evaluation method or a checklist to control the stages of foundation and poor work template on the LPMP samarinda building.*

*From the evaluation results, the results of the referrals used by the consultants are assumed by the supervisor consultant, the list used is different from the standard set by SNI-1734-1989-F and SBW-08 Modules. There are many stages of work not listed in the list of quality applications. his.*

***Key words*** : *List of referrals, checklist methods, standardization, quality management*

## **PART I PRELIMINARY**

### **1.1 Background**

#### **CHAPTER I INTRODUCTION**

### **1.1 Background**

Nowadays, the Construction Work in Indonesia continues to grow and increase where to facilitate various facilities and infrastructure, but the increase in Construction work is not accompanied by an increase in competent experts so that the existing Standardization or Quality Management cannot be fulfilled properly, whether intentional or unintentional.

In the construction project there is a party that functions to oversee the network of quality fulfillment processes in a project that plays a major role in the process of minimizing errors that will arise, either because of ignorance or mistakes by workers, and various other possibilities. So that a certain standard or standard is achieved. called Quality Management. Because of the importance of Quality Control, the author is interested in making the Final Project entitled "Quality Management Evaluation in the Archive Building Project for Quality Assurance Institute for Education in Samarinda, East Kalimantan"

#### **CHAPTER II LITERATURE**

### **2.1 PQuality engertian**

Quality is conformance to requirements, ie in accordance with the requirements or standardized. If a product has quality in accordance with the predetermined quality standards. Quality standards including raw materials, production processes and finished products (Crosby 1979: 58

KQuality of as suitability to the needs of markets or customers.

Companies should really be able to understand what consumers need on a product that will be produced (Deming 1982: 176)

### **2.2 Quality Control Methods**

The method used in the quality control depends on the type of object and the desired accuracy. There are three methods that are often encountered in development projects, are as follows,

### **2.3 Checking and Assessment**

This is done to the image of the construction, the picture for the purchase of equipment, manufacture of models (model) and calculations related to engineering design. The action is to know and believe that the criteria, specifications and standards set have been met.

### **2.4 Examination / Inspection and Test Equipment Capabilities**

This job is in the form of a physical examination, including the functioning of a witnessed test equipment. These activities are classified into the following points.

1. Inspection while receiving material.
2. This includes research and study materials, spare parts and others recently received from the purchase.
3. During the manufacturing process takes place.
4. Tests carried out during the installation work berlangsung, before the end of the examination is held.
5. Final examination, that is, the final examination in order to project completion physically or mechanically.

## 2.5 Testing by Taking Example

This method is intended to test whether the material has met the specifications or criteria specified. Tests may include tests destructive or non-destructive carried out on samples taken from the object under investigation.

## 2.6 Check-sheet

*Check-sheet* used to record the events or non-events (mismatches). They can also include information such as the position in which the event occurred and the causes are unknown. They are usually prepared in advance and completed by those who perform the operation or monitoring their progress. Value by using a check-sheet retrospective analysis to assist with problem identification and problem solving.

check list which is used to notify the user if there are certain items that should be checked. Thus, it can be used in quality assurance audits and to follow the steps in a specific process. Histogram gives a graphical representation of the individual measurement values in a data set corresponding to the frequency of occurrence. It helps to visualize data distribution and some form of histogram, which should be recognized, and in this way they reveal the amount of variation in the process. Histogram must be designed so that staff members can easily carry out operations use it.

## 2.7 Flow chart

*Flow chart* using a set of symbols to provide a diagrammatic representation of all the steps or stages in the project process or sequence of events. A flowchart helps in documenting and describing a process that can be examined and repaired. Analyzing the data collected in the flowchart can help to uncovering irregularities and problems hidden

## CHAPTER III RESEARCH METHODOLOGY

## 3.1 Population And Sample

In acquiring this study population was then carried out in the Archives Building Quality Assurance Agency East Kalimantan, while for the retrieval of samples in this study are primary data obtained receipts directly in the field of workers involved in the project implementation Penjaminana Institution Archives Building Quality Kalimantan Timur

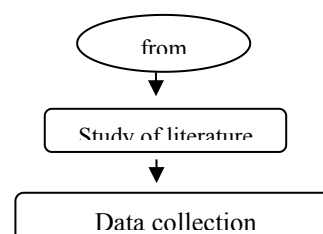
## 3.2 Data Analysis Techniques

In this research author menggunakan analysis techniques *Komparasi, Implementasi And Quality Control*, By studying the data contained in the Report Archives Building Project in East Kalimantan Education Quality Assurance Agency, researchers then direct review and make a checklist of all the stages at the time of construction, in the form of a checklist on the stage of Pre-Construction, Construction, Construction Post by demikian evaluation at this stage of quality control on the author made reference to evaluate the quality of Construction Archives building Kal Education Quality Assurance Agency imantan Timur findings that were obtained by the author is there a discrepancy or not having an effect on the quality of construction Researchers then further describe is about *Quality Control* the form: *systematics report by Konsultan pPlanning* for.

1. Systematics report by consultant supervisor.
2. Systematics report by the Contractor.

## 3.5 Design Research

Figure 3.2 Flowchart research



Stages of Evaluation has started the process of concrete quality control, and quality control of steel, which is then followed by a stage of quality control on the Bore pile work and PoorPlat following are the stages.

#### 4.1.1 Form Checklist

Form Checklist is a checklist of things that must be checked or examined in aid work that have items that are many and complex. The checklist will help project proponents in order to control the project properly. Here in research authors will evaluate job Strauss pile Piles (Bore pile) and Foundations PoorPlat. The following point Bore pile foundation construction and Strauss pile.

Table 4.4: Checklist pembersian pile Piles Strauss (Bore pile foundation) Area A.2 s / d A.5

Piles Strausspile job 30cm diameter (Bore pile foundation)					
Concrete Supplier			: Kaltim Ready Mix Concrete		
quality Concrete			: K 250		
Inspection Date		: 24 Juli 2017	Area / Point Foundry		
part A.Pembersian					
No.	Inspection and test parameters	The criteria set	inspection methods	Implemented by	Information
				CV. PEARL DESIGN CONSULTANTS	

Source: Modification and observations writer

## CHAPTER IV DISCUSSION

### 4.1 Stages of its Quality Evaluation Checklist method

1	Spiral reinforcement	In accordance Image Work	Measurement (Sigma 1 Iron)	√	Appropriate / Inappropriate
2	reinforcement Vertical	In accordance Image Work	Measurement (Sigma 1 Iron)	√	Appropriate / Inappropriate
3	Straightness / neatness	Straight and Not Bent	Visual	√	Appropriate / Inappropriate
4	Cleanliness	Clean, no rust	Visual	√	Appropriate / Inappropriate
5	Wire bonding / Bendrat	Strong and No Release	Visual and Test	√	Appropriate / Inappropriate
6	Long connection (if any)	Min 40 D	Visual and Measure	√	Appropriate / Inappropriate

Source: Form Checklis LPMP Samarinda 2017

Table 4.5: Checklist excavation Piles Strauss pile (Bore pile foundation) Area A.2 s / d A.5

Part B.Galian Foundation					
No	Inspection and test parameters	The criteria set	inspection methods	Implemented by	Information
				CV. PEARL DESIGN CONSULTANTS	

1	Excavation depth (= 5m)	In accordance Pictures and Not Collapsing	Visual and Measure	√	Appropriate / Inappropriate
2	Total Point Foundation	In accordance Image Work	Visual and Measure	√	Appropriate / Inappropriate
3	Conditions About Excavation	Net of Mud	Visual	√	Appropriate / Inappropriate

Source: Form Checklis LPMP Samarinda 2017

#### 4.2 Application of the quality of the building

Implementation of the quality of the building is the result of the application on the ground that refers to the method of quality control and quality evaluation of the quality checklist which acts make implementation of the method be carried out without any stages that are missing from the quality control and quality evaluation.

#### 4.3 Quality Evaluation Method Checklist

Based on the results of a quality evaluation using the checklist in Bore Pile Works and Works comparison PoorPlat obtained from surveillance reports established by the results of implementation on the inspection and test

Based on the form checklist / list contained in the report refer to supervision of the archival building Samarinda Education Quality Assurance Agency different from

what is found in ISO-1734-1989-F and the SBW-08 module, which is used as a reference by author

#### 4.4 List refer to Employment by ISO-1734-1989-F and Module SBW-08

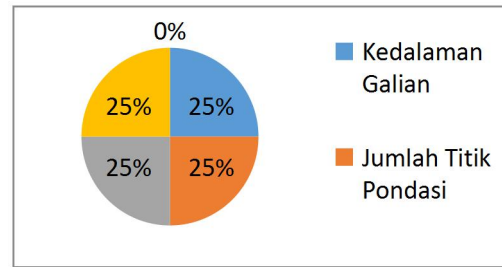
Table 4.84 refer to the list Bore pile foundation excavation work

Part B.Galian Foundation				
No.	Inspection and test parameters	The criteria set	Status	
			Yes	Not
1	Excavation depth	In accordance Pictures and Not Collapsing	✓	
2	Total Point Foundation	In accordance Image Work	✓	
3	Conditions About Excavation	Net of Mud	✓	
4	The position of the hole	Conditions perpendicular	✓	
5	circumstances Hole	Avoid damage to the soil around		✓

Source: Evaluation Writer, ISO 7830: 2012

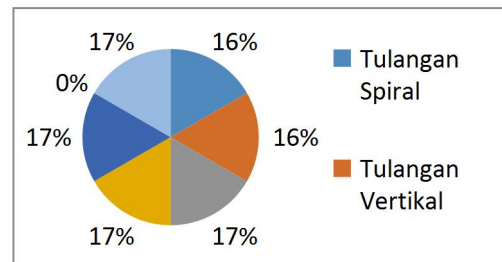
#### Quality 4.5 Diagram

Figure 4.2 Diagram of excavation borepile



Source: Author 2019

Figure 4.3 Diagram pembesian borepile



Source: Author 2019

## CHAPTER V COVER

### 5.1 Conclusion

1. Based on the results of the discussion that has been done, both on a literature review, as well as the data processing and studies with checklist method, it can be concluded procedures quality evaluation stage at the Archives building Samarinda Education Quality Assurance Agency are as follows :

1. Direksikeet
2. Measurement and bouwplank,
3. Concrete test data.
4. Steel test data.
5. Tools preparation
6. preparation of materials
7. Tools preparation
8. See the list of the form / checklist of the Consultant and applicability.
9. List refer to / form checklist of the agencies have made reference in quality management.

2. Application of the quality of the Archives Building buildings Education Quality Assurance Agency East Kalimantan in laksanakan and dengani

evaluation checklist method by its authors and obtained the following findings:

1. See the list at the Archives Building Samarinda Education Quality Assurance Agency applicability is assuming the consultant using the Checklist.
2. See the list used is different to the standards set by ISO-1734-1989-F and Module SBW-08 referenced by author,
3. There are many stages of work that is not listed in the list refer to the application of his quality.

## 5.2 Suggestions

As for the suggestion that the author can provide in writing this essay is as follows:

1. In the implementation of this study is certainly a shortfall that would be very good at all if dikembang for the future. Because this study only reviewing individual projects. Construction with quality evaluation provides benefits to the reader.

## REFERENCES

1. Ahzan, Ilham Nur. 2016. Evaluation of the Quality Management Plan On Samanggi River Bridge Construction Project District. Maros. Civil Engineering Journal. Hasanuddin University.
2. BSN. 2012. ISO 7830: 2012.BSN. Jakarta.
3. Public Works Department. 2017 List Simakcheck List Installation and Dismantling Formwork and Scaffolding. citedhttp://sibima.pu.go.id/mod/resource/view.php?id=12128
4. Permana, Eki Mulya and Muhammad Lutfi. 2018. Evaluation of Application Quality Management At Work Truss Hanger Lamp Bung Karno Stadium. SEMNASTEK Proceedings of the Faculty of Engineering. University of Muhammadiyah Jakarta