

Analysis of Fulfillment Security, Safety, Health, and Sustainability (K4) Standards Building Construction in Padang City

Irvan Guswandi^{1*}, Akhmad Suraji², Benny Hidayat³

^{1,2,3} Civil Engineering, Faculty of Engineering, Universitas Andalas, Indonesia

*Corresponding Author, e-mail: irvanguswandi.st@gmail.com

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ABSTRACT

Construction services play a crucial role in national development, and providing Safety, Health, and Sustainability (K4) standards is an important aspect in its implementation. This study aims to channel the level of provision of K4 standards in building construction in Padang City from the perspective of stakeholders (Project Owners, Supervising Consultants, and Contractors), and identify areas that need improvement. This research method uses a qualitative approach with semi-structured interview techniques. Interviews were conducted in depth with representatives from each stakeholder to explore information on the understanding, implementation, and challenges related to K4 standards. Data analysis was carried out descriptively qualitatively by identifying themes that emerged from the interviews and comparing them with the applicable K4 standards. The results of the study indicate that the level of provision of K4 standards in building construction in Padang City is not yet optimal. Of the eight criteria containing K4 standards, there are three standards that have been 100% met (material quality standards, quality standards for the results of construction service implementation, and social protection guidelines for workers). However, there are five standards that still need to be improved, namely equipment quality standards (87.50%), occupational health and safety standards (84.37%), construction service implementation procedure standards (97.22%), operational and maintenance standards (66.67%), and environmental management standards (91.20%). The novelty of this study lies in its focus on the stakeholder perspective in evaluating K4 standards. Previous studies tend to view K4 standards from only one perspective, so this study provides a more comprehensive picture. In addition, this study also specifically identifies areas that need to be improved, so that they can be the basis for implementing more effective construction policies. The practical implications of this study are recommendations for more comprehensive construction policies to improve the provision of K4 standards. Local governments and construction associations can use the results of this study to develop more effective training, socialization, and supervision programs. In addition, this study can also be a reference for construction actors to increase awareness and compliance with K4 standards.

Keywords: K4 Standards; Building Construction; Stakeholders; Construction Policy; Padang City.

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INTRODUCTION

Construction services are one of the activities in the economic, social and cultural fields that have an important role in achieving various targets to support national development. In accordance with the mandate of Law Number 2 of 2017 concerning construction services, every implementation of construction services, service users and service providers must meet the standards of security, safety, health and sustainability abbreviated as (K4 Standard) [1]. Construction workers are part of the community that must be protected, in addition, workers are one of the main elements in construction development, so they need to be given protection for their safety and health so that they remain productive. The standards of security, safety, health and sustainability (K4 Standard) are technical guidelines for the security, safety, health

of construction workplaces and social protection of workers, as well as local environmental management and environmental management in the implementation of construction services [2].

Then based on the regulation of the Minister of PUPR Number 10 of 2021 concerning Guidelines for the Construction Safety Management System (SMKK), it explains that SMKK is a part of management in the implementation of work in the construction sector which aims to ensure the realization of safety at all stages of the construction process. SMKK is a system that is included in the management of construction projects and aims to ensure that construction safety is achieved. This construction safety concept includes meeting safety, security, health and sustainability (K4) standards, in order to ensure public safety, technical safety of the construction process, safety and health of workers, and environmental protection [3].

The change in the provisions governing the Occupational Safety and Health Management System (SMK3) or what is currently better known as the Construction Safety Management System (SMKK) began when Law Number 11 of 2020 concerning job creation emerged, and mandated the central government to be responsible for the implementation of construction services in accordance with the Safety, Safety, Health and Sustainability Standards (K4 Standards). The scope of the K4 standard at least includes the quality of materials, quality of equipment, Construction Safety and Health (K3), implementation procedures and quality of results of construction services, operations and maintenance, social protection for workers and environmental management [4].

A risk-aware culture is a fundamental thing that needs to be understood and mitigated in order to realize the sustainability of safe and secure construction in the future. Every construction project has a specific purpose, in the process of achieving this purpose, limits have been determined, namely the amount of cost (budget) allocated, and the schedule and quality that must be met, as well as guaranteed occupational health and safety as stated in the contract. Construction projects have unique characteristics, including open-air workplaces that are affected by weather, environment, limited timeframes, using untrained workers, using work equipment that endangers occupational safety and health, and work that requires a lot of manpower [5].

To support good and professional governance, the Padang City government annually builds road infrastructure, drainage channels, school building facilities, and other government buildings that are carried out by contractor partners, through project contracts agreed upon with service users, but behind the construction work of projects in the Padang City government, there are still many work accidents at the project site and in the project environment. Therefore, this study aims to find out what factors influence the implementation of Security, Safety, Health and Sustainability (K4) in the implementation of building construction projects in Padang City [6].

As an illustration, the BPJS employment work accident data shows an increase in the number of work accidents in Indonesia. In the last three years, there has been a continuous increase in the number of work accident cases, the number of work accident cases in 2020 was 221,740 cases and in 2021 there were 234,370 cases, the number increased again in 2022, until November 2022 there were 265,334 cases of work accidents in Indonesia [7].

Then according to data from the BPJS Employment of the West Sumatra Region, in 2023 the number of work accidents that occurred to wage earners was 2,188 cases, and non-wage earners

were 172 cases, while cases of work accidents in construction services were 34 cases in West Sumatra Province. The number of construction work accidents in Indonesia is still quite bad. Not only in Indonesia, in developing and developed countries it still requires serious attention, therefore effective prevention methods must be found. In addition, construction project work not only requires accuracy in strength planning, but also needs to be observed about the construction methods and technologies, errors in construction methods will have fatal consequences, namely loss of life for workers [8].

Construction project work management plays a very important role in preventing accidents in construction projects. This role starts from planning, organizing, implementing and supervising. Furthermore, it can also be reviewed from the human component, materials, machines/tools, work methods and information [9].

Based on the existing problem background, this study is entitled "Analysis of Compliance with Security, Safety, Health and Sustainability (K4) Standards in Building Construction in Padang City". To find out the implementation of compliance with K4 standards by Project Owners, Supervisory Consultants and Contractors in building construction in Padang City.

METHOD

This study uses a qualitative method with a semi-structured interview technique. The interviews were conducted face-to-face with stakeholders (project owners, supervisory consultants, and contractors) involved in building construction projects in Padang City.

The sampling technique used was purposive sampling. The selection of respondents was based on certain criteria, namely:

1. Project Involvement: Respondents must be directly involved in building construction projects in Padang City, either as project owners, supervisory consultants, or contractors.
2. Experience: Respondents have relevant experience in implementing K4 standards in construction projects.
3. Availability: Respondents are willing to be interviewed and provide the information needed.

The number of respondents interviewed was 32 people from 8 building construction projects in Padang City. This number is considered sufficient to obtain comprehensive information regarding the implementation of K4 standards from various perspectives.

Interview Process

The interviews were conducted in-depth and structured. The researcher used an interview guide containing open-ended questions related to K4 standards. However, the researcher also gave the respondents the opportunity to provide further explanations or express their views freely. Each interview was recorded using a recording device to ensure that all information provided by the respondents was well documented. After the interview was completed, the researcher made a verbatim transcript of the interview.

Qualitative Data Analysis

Qualitative data collected from the interviews were analyzed using the content analysis method. The data analysis process was carried out as follows:

1. Data Reduction: The researcher read the interview transcripts repeatedly to understand the entire contents of the conversation. Then, the researcher made a summary or abstraction of each interview transcript.
2. Coding: The researcher assigned a code or label to each unit of information relevant to the K4 standard. These codes can be themes, concepts, or specific categories.
3. Categorization: The codes that have been created are then integrated into broader categories based on similarities or relationships between codes.
4. Interpretation: The researcher interpreted the categories formed to identify certain patterns, themes, or tendencies related to the implementation of the K4 standard.
5. Data Presentation: The results of the data analysis are presented in the form of descriptive narratives supplemented with direct quotes from interview transcripts to strengthen the research findings.

Data Validation and Reliability

To ensure the validity and reliability of the data, this study uses several techniques, including:

1. Data Triangulation: Data obtained from interviews are compared with relevant secondary data, such as project documents, inspection reports, or regulations related to K4 standards.
2. Member Check: Interview transcripts and data analysis results are presented back to respondents for confirmation or correction.
3. Peer Debriefing: Researchers discuss with other research colleagues to obtain input or different perspectives related to data analysis.

By using detailed data collection and analysis methods and paying attention to data validity and reliability, this study is expected to produce accurate and accountable findings.

Results and Discussion

1. Project A Interview Results.

Analysis of Fulfillment of K4 Standards in the Development of Project A can be explained that the fulfillment of the implementation of K4 Standards in the development of project A is as follows: Based on the answers from the Supervisory Consultant and Contractor, an assessment was carried out in the form of a percentage and then averaged, in the assessment of the implementation of material quality standards, the average was 100%, when the interview was conducted, the researcher gave the same question to the Supervisory Consultant and Contractor about the implementation of material quality standards from all questions during the interview about the implementation of the material quality standards. The Supervisory Consultant and Contractor explained that the material quality standards were met 100%. and the equipment quality standards were also met 100%. Then the questions continued about the implementation of occupational safety and health standards, after analyzing the data on the implementation of occupational safety and health standards, an average value of 75% was obtained. It can be explained that during the interview, the fulfillment of occupational safety and health standards was not met by the supervisory consultant and contractor. As for the same questions asked by the researcher to the Supervisory Consultant and Contractor, there are 12 question items asked by the researcher, there are 3 question standards that are not met until the answers from the Supervisory Consultant and Contractor get an average work health safety standard fulfillment value of 75%. Then the fulfillment of the construction service implementation procedure standard is on average 100% and the construction service implementation quality standard is on average 100%.

Fulfillment of operational and maintenance standards is only met on average 66.67%. Of the 6 same questions asked by the researcher to the Supervisory Consultant and Contractor, there are 2 standard questions that are also not met. Of the 6 same questions asked, only 4 operational and maintenance standard questions are met, so that the average assessment weight for the implementation of operational and maintenance standards is 66.67%.

The implementation of social protection guidelines for workers according to statutory provisions is met on average 100%. And environmental management standards according to regulations and legislation are also met by an average of 100%.

2. Project B Interview Results

Analysis of Fulfillment of K4 Standards in the Development of Project B, it can be explained that the fulfillment of the implementation of K4 Standards in the development of project B is as follows: Based on the answers from the Supervising Consultant and Contractor, an assessment can be made in the form of a percentage and then averaged, in the assessment of the implementation of material quality standards, the average is 100%, when the interview was conducted, the researcher gave the same question to the Supervising Consultant and Contractor about the implementation of material quality standards from all questions during the interview about the implementation of the material quality standards, the Supervising Consultant and Contractor explained that the material quality standards were met 100%. and the equipment quality standards were also met 100%. Then the questions continued about the implementation of occupational safety and health standards, after analyzing the data on the implementation of occupational safety and health standards, an average value of 75% was obtained. It can be explained that during the interview, the fulfillment of occupational safety and health standards, the Supervising Consultant and Contractor could not meet the 100% standard. As for the same questions that were not fulfilled that were submitted by the researcher to the Supervisory Consultant and Contractor, there were 12 question items submitted by the researcher, there were 3 standard questions that were not fulfilled until the answers from the Supervisory Consultant and Contractor received an average work health safety standard fulfillment value of 75%.

The implementation of standard procedures for the implementation of construction services and quality standards for the results of the implementation of construction services were met on average 100%. Then on the operational and maintenance standards only an average of 66.67% were met. Of the 6 same standard questions submitted by the researcher to the Supervisory Consultant and Contractor, there were 2 standard questions that were also not met. Of the 6 same standard questions submitted, only 4 standard questions were met so that the assessment weight for the implementation of operational and maintenance standards was an average of 66.67%. The implementation of the standard guidelines for social protection of workers according to statutory provisions was met on average 100%. And the standard for environmental management according to regulations and laws was also met on average 100%.

Then the implementation of environmental management standards according to regulations and legislation gets an average value of 77.78%. There are 2 questions of the same standard that cannot be fulfilled by Consultants and Contractors. From the respondents' answers, researchers have been able to conclude and present that the implementation of environmental management standards in accordance with the provisions of laws and regulations averages 77.78%.

3. Project C Interview Results

Analysis of Fulfillment of K4 Standards in the Construction of Project C, it can be explained that the fulfillment of the implementation of K4 Standards in the construction of project C, as follows: Based on the answers from the Supervising Consultant and Contractor, the researcher conducted an assessment in the form of a percentage and then averaged it, in the assessment of the implementation of material quality standards, the average was 100%, when the interview was conducted, the researcher asked the Supervising Consultant and Contractor questions about the implementation of material quality standards from all questions during the interview about the implementation of the material quality

standards, the Supervising Consultant and Contractor explained that the material quality standards were met 100%. and the equipment quality standards were also met 100%. Then the questions continued about the implementation of occupational safety and health standards, after analyzing the data on the implementation of occupational safety and health standards, an average value of 75% was obtained. It can be explained that during the interview regarding the fulfillment of occupational safety and health standards, the Supervising Consultant and Contractor could not meet the 100% standard. The same questions were asked by the researcher to the Supervising Consultant and Contractor. Of the 12 questions asked by the researcher, there were 3 questions about standards that were not met until the answers from the Supervisory Consultant and Contractor received an average weighting of the fulfillment of occupational health and safety standards of 75%.

Then the implementation of standard procedures for the implementation of construction services and quality standards for the results of the implementation of construction services were met on average 100%. And on the operating and maintenance standards an average of 66.67%, from the fulfillment of these operating and maintenance standards, the Supervisory Consultant and Contractor also could not meet the 100% standard. Of the 6 same questions asked by the researcher to the Supervisory Consultant and Contractor, 2 standard questions could not be met. Of the 6 same questions asked, only 4 questions were met so that the weighting of the implementation of operating and maintenance standards was an average of 66.67%. And the implementation of the standard of guidelines for social protection of workers according to statutory provisions averaged 100%.

Then the implementation of environmental management standards according to regulations and laws got an average value of 88.89%. From the respondent's statement of answers regarding the implementation of environmental management standards, the answers between respondents differ between the Supervisory Consultant and the Contractor. The differences in answers are as follows, from the 9 questions submitted by the researcher to the respondents, the statement from the Contractor that the environmental management standards are in accordance with the provisions of the laws and regulations are 100% fulfilled. While the statement from the Supervisory Consultant that the environmental management standards are in accordance with the provisions of the laws and regulations are not 100% fulfilled. There are 2 questions that cannot be fulfilled in the consultant's statement. From the respondents' answers, it can be concluded and presented as a percentage that the implementation of environmental management standards in accordance with the provisions of the laws and regulations is an average of 88.89%.

4. Project D Interview Results

Analysis of Fulfillment of K4 Standards in the Development of Project D can be explained that the fulfillment of the implementation of K4 Standards in project D is as follows: Based on the answers from the PPK, Supervisory Consultant and Contractor answers, it can be averaged in the form of a percentage, The implementation of material quality standards is on average 100%, when the interview was conducted, the researcher gave the same question to the PPK, Supervisory Consultant and Contractor about the implementation of material quality standards from all questions during the interview about the implementation of the material quality standards, the PPK, Supervisory Consultant and Contractor explained that the material quality standards were 100% fulfilled. Then the equipment quality standards were also met on average 100%. The questions continued about the implementation of occupational safety and health standards, after analyzing the data from the interview, the implementation of occupational safety and health standards got an average value of 100%.

Then the implementation of construction service implementation procedure standards and construction service implementation quality standards were met on average 100%. and the operation and maintenance standards averaged 66.67%, from the fulfillment of these operation and maintenance standards, the PPK and Supervisory Consultant and Contractor could not meet the 100% standard. Of the 6 same questions submitted by the researcher to the PPK and Supervisory Consultant and Contractor, 2 standard questions could not be fulfilled. Of the 6 same questions submitted by the

researcher, only 4 questions could be fulfilled, thus obtaining an average weighting of the implementation of operational and maintenance standards of 66.67%.

Then the implementation of the social protection guidelines for workers in accordance with statutory provisions was fulfilled by 100%. And on the environmental management standards in accordance with regulations and legislation, an average of 92.59%. The environmental management standards in accordance with regulations and legislation were answered by the PPK and the Supervisory Consultant, Contractor, were different. The researcher will explain the difference, from the PPK version of the answer, the Environmental Management Standard in accordance with statutory provisions was fulfilled by 100%, then from the Supervisory Consultant and Contractor versions only 88.89% were fulfilled. The difference in answers can be explained from the 9 standard questions submitted by the researcher to the Supervisory Consultant and Contractor, only 8 standards could be fulfilled. Then 1 standard question could not be fulfilled. The statements between the PPK, Supervising Consultant and Contractor, although different, show that the fulfillment of environmental management standards in accordance with the provisions of these laws and regulations can be assessed with an average value of 92.59%.

5. Project E Interview Results

Analysis of Fulfillment of K4 Standards in the Construction of Project E above can be explained that the fulfillment of K4 Standards in the construction of project E is as follows: Based on the answers of the PPK, Supervisory Consultant and Contractor, the researcher conducted an assessment in the form of a percentage and then averaged it. In the assessment of the implementation of material quality standards, the average was realized at 100%, when the interview was conducted, the researcher gave the same question to the PPK, Supervisory Consultant and Contractor about the implementation of material quality standards from all questions during the interview about the implementation of the material quality standards, the PPK, Supervisory Consultant and Contractor explained that the material quality standards were met 100%. Then the fulfillment of equipment quality standards was also met 100%. The question was continued about the implementation of occupational safety and health standards after being analyzed, an average value of 100% was obtained,

Then the implementation of construction service implementation procedure standards and construction service implementation quality standards were met on average 100%. and the fulfillment of operation and maintenance standards was met on average 66.67%. It can be explained from the fulfillment of these operation and maintenance standards, the PPK and Supervisory Consultant and Contractor also could not meet the 100% standard. Of the 6 same questions submitted by the researcher to the PPK and Supervisory Consultant and Contractor, 2 standard questions could not be fulfilled. Of the 6 same questions submitted, only 4 questions were fulfilled, so that the average weighting of the implementation of operational and maintenance standards was 66.67%. The implementation of social protection guidelines for workers in accordance with statutory provisions was fulfilled by an average of 100%. And the standard for environmental management in accordance with regulations and legislation was an average of 92.59%. It can be explained again from the standard for environmental management in accordance with regulations and legislation, the answers between the PPK and the Supervisory Consultant, Contractor are different. The researcher will explain the difference, first from the PPK version, the environmental management standard in accordance with statutory provisions was fulfilled 100%, then from the Supervisory Consultant and Contractor versions only 88.89% was fulfilled. It can be explained from the 9 standard questions submitted by the researcher to the Supervisory Consultant and Contractor only 8 standards were fulfilled. Then 1 standard question could not be fulfilled. After the researcher conducted the interview, the researcher had the opportunity to take documentation in the form of photos, on that occasion the researcher also noticed that the work area was not clean and there was a lot of scattered garbage and there was no trash can that separated organic and inorganic waste. After analyzing the data from the interview, the fulfillment of environmental management standards in accordance with the provisions of this law has been averaged at 92.59%.

6. Project F Interview Results

Analysis of Fulfillment of K4 Standards in the Construction of Project F can be explained that the fulfillment of the implementation of K4 Standards in the construction of project F is as follows. Fulfillment of material quality standards 100%, and equipment quality standards 0%, during the interview the researcher asked questions to the Owner, MK Consultant and Contractor about the implementation of equipment quality standards. The follow-up questions on the fulfillment of material quality standards were not continued because the following questions are related to each other, if the first question cannot be fulfilled then the next question about material quality standards will also not be fulfilled by the owner and provider. It can be concluded that the implementation of equipment quality standards is 0%. Then the researcher continued the question about the implementation of occupational safety and health standards, the implementation of occupational safety and health standards averaged 75%. It can be explained during the interview that the fulfillment of occupational safety and health standards could not meet the standard 100%. Of the 12 question items submitted by the researcher, there were 3 of the same question standards that could not be fulfilled by the Owner and Provider. The following are the same questions submitted by the researcher to the Project Owner, MK Consultant and Contractor. After data analysis, the results of the answers from the Owner, MK Consultant and one management with the Contractor for the implementation of occupational safety and health standards averaged 75%.

Then the question was continued about the implementation of standard procedures for the implementation of construction services, after analysis of interviews with respondents, the fulfillment of standard procedures for the implementation of construction services got an average value of 77.78%. It can be explained during the interview that the fulfillment of standard procedures for the implementation of construction services by the Owner, MK Consultant and Contractor could not meet the standard 100%, from 9 similar questions asked by the researcher to the Project Owner, MK Consultant and Contractor, there were 2 similar questions that could not be fulfilled by the Project Owner, MK Consultant and Contractor. Then the interview was continued about the implementation of quality standards for the results of the implementation of construction services. After the interview, the results can be concluded in the form of a percentage. The average fulfillment of the implementation of standards for the results of the implementation of construction services was 100%. Then the fulfillment of operational and maintenance standards was only fulfilled by an average of 66.67%.

Of the 6 similar questions asked by the researcher to the Owner, MK Consultant and Contractor, there were 2 similar standard questions that were also not fulfilled. Of the 6 same questions asked, only 4 questions on operational and maintenance standards were met, thus obtaining an average assessment weight for the implementation of operational and maintenance standards of 66.67%. The implementation of social protection guidelines for workers in accordance with statutory provisions was met on average by 100%. And environmental management standards in accordance with regulations and laws were met on average by 100%.

7. Project G Interview Results

Analysis of Fulfillment of K4 Standards in the Construction of Project G above can be explained that the fulfillment of the implementation of K4 Standards in the construction of project G is as follows: Based on the answers from the PPK, Supervisory Consultant and Contractor, the researcher conducted an assessment in the form of a percentage and then averaged it, in the assessment of the implementation of material quality standards, an average of 100% was met, when the interview was conducted, the researcher asked questions to the PPK, Supervisory Consultant and Contractor about the implementation of material quality standards from all questions during the interview about the implementation of the material quality standards, the PPK, Supervisory Consultant and Contractor explained that the material quality standards were met 100%. and the equipment quality standards were also met 100%. Then the occupational safety and health standards were also met an average of 100% and the construction service implementation procedure standards were also met an average of 100%, the quality standards for the results of the implementation of construction services were also met an average of 100%.

Then the operational and maintenance standards were only met an average of 66.67%. Of the 6 same questions submitted by the researcher to the PPK and Supervisory Consultant and Contractor, there were 2 standard questions that could not be met. Of the 6 same questions asked, only 4 questions were fulfilled, thus obtaining an average weighting of the assessment of the implementation of operating and maintenance standards of 66.67%.

Then the implementation of the social protection guidelines for workers according to statutory provisions was fulfilled by an average of 100%. And environmental management standards according to regulations and laws were also fulfilled by an average of 100%.

8. Project H Interview Results

Analysis of Fulfillment of K4 Standards in the Construction of Project H above can be explained that the fulfillment of the implementation of K4 Standards in the construction of project H is as follows: Based on the answers from the owner, MK Consultant and Contractor, the researcher conducted an assessment in the form of a percentage and then averaged it, in the assessment of the implementation of material quality standards, the average was 100%, when the interview was conducted, the researcher asked questions to the Owner, MK Consultant and Contractor about the implementation of material quality standards from all the same questions during the interview about the implementation of the material quality standards. The Supervisory Consultant and Contractor explained that the material quality standards were 100% fulfilled. and the equipment quality standards were also 100% fulfilled.

Then the questions continued about the implementation of occupational safety and health standards after the data analysis of the implementation of occupational safety and health standards obtained an average value of 75%. It can be explained during the interview that the fulfillment of this occupational safety and health standard could not meet the 100% standard. Of the 12 same question items submitted by the researcher, there were 3 of the same question standards that were not fulfilled. The same questions were asked by the researcher to the Owner, MK Consultant and Contractor. The fulfillment of the standard procedure for the implementation of construction services was met on average by 100%. Then, the quality standard for the results of the implementation of construction services was also met on average by 100%. The fulfillment of operational and maintenance standards was only met on average by 66.67%. Of the 6 same questions asked by the researcher to the Project Owner, MK Consultant and Contractor, there were 2 questions of the same standard that were also not met. Of the 6 same questions asked, only 4 questions of operational and maintenance standards were met, so that the weight of the assessment of the implementation of operational and maintenance standards was an average of 66.67%. Then the implementation of the social protection guidelines for workers according to statutory provisions was met on average by 100%. Then the implementation of environmental management standards according to regulations and legislation after analysis from interviews obtained an average value of 88.89%. There was 1 question of the same standard that could not be met by the Owner, Consultant and Contractor. It can be seen visually that at the project location there were no trash bins and even trash was scattered on the basement floor. Then from the results of the interviews conducted, it can be seen that respondents who answered do not know, cannot and do not want to meet the K4 standards. Respondents Who Answered Do Not Know, Cannot and Do Not Want to Meet K4 Standards, namely, in the fulfillment of equipment quality standards, 1 respondent answered do not want, then in the fulfillment of occupational safety and health standards, 15 respondents answered do not know and 16 respondents answered do not know. Then the fulfillment of environmental management standards, 2 respondents answered do not know and 3 respondents answered do not want. The following is graph 4.1 Respondents Who Answered Do Not Know, Cannot and Do Not Want to Meet K4 Standards as follows:

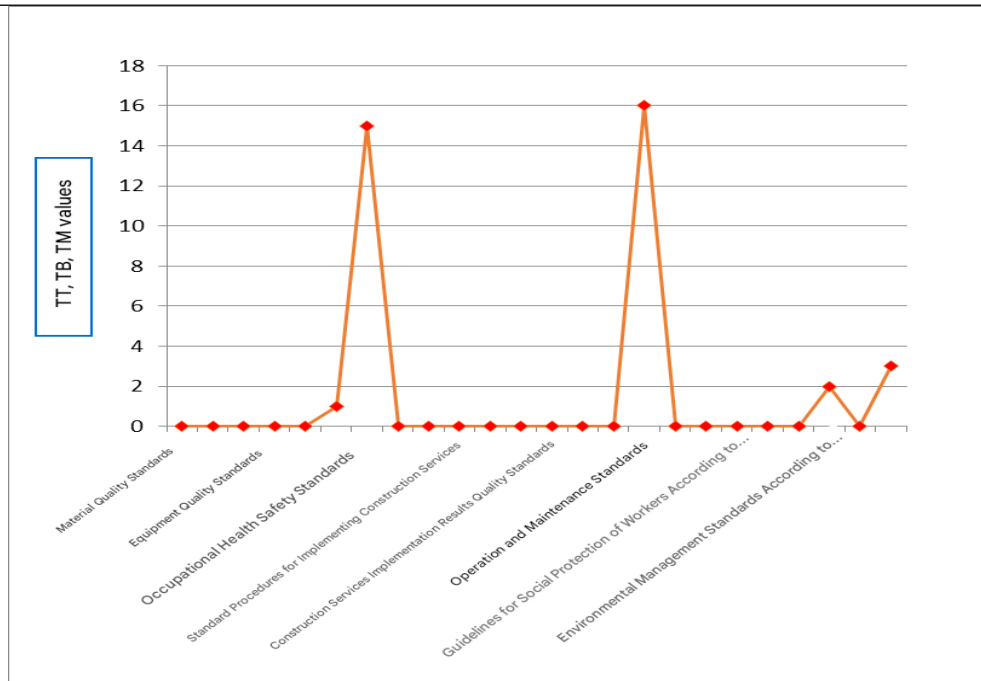


Figure 1. Respondents Who Answered Don't Know, Can't and Don't Want to Fulfill K4 Standards

CONCLUSION

Based on the research objectives and the final results of the research in the form of interviews, the following conclusions can be drawn from this study: That the fulfillment of the Safety, Health and Sustainability Standards (K4 Standards) in building construction in Padang City is met by an average of 90.86%. Of the 8 criteria for fulfilling the K4 Standard, there are 3 standards that meet 100% including material quality standards, quality standards for the results of the implementation of construction services and social protection guidelines for workers in accordance with statutory provisions. Then there are 5 standards that have not been met 100%, namely equipment quality standards 87.50% occupational health and safety standards 84.37%, construction service implementation procedure standards 97.22% and operational and maintenance standards 66.67% then environmental management standards in accordance with statutory regulations 91.20%.

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