



The Importance of Infrastructure Management for Improving the Quality and Quality of Elementary School Learning

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Abstract

This study examines the importance of the management of facilities and infrastructure in improving the quality of education. The purpose of this research is to find out how the management of the procurement of infrastructure and how important infrastructure is in improving the quality of education, especially in elementary schools. This research was conducted using a qualitative approach and data collection techniques for this study using literature studies. The results of the study show that the management of infrastructure is very important in improving the quality of education. This can be seen from 1) the notion of infrastructure, namely one of the supporting factors for the implementation of an effective and efficient learning process; 2) The understanding of infrastructure management, namely the process of procuring and utilizing components directly or indirectly to achieve educational goals effectively and efficiently; 3) infrastructure management process, namely the process of planning, procurement, use, inventory, maintenance, and elimination; and 5) infrastructure and education quality improvement, namely schools that have adequate facilities and infrastructure will be able to improve the quality of education in an institution.

Keywords :Means; Infrastructure; Education Quality

Introduction

Education is an effort that is carried out consciously and planned to carry out and realize the learning process on an ongoing basis and is structured in a learning program that has been prepared before the learning process takes place. Education is inseparable from several factors that can support the continuity of the learning process in schools, one of the supporting factors for an effective and efficient learning process to take place is the availability of educational resources such as educational facilities and infrastructure.

Educational facilities and infrastructure are the supporting factors for the continuity of an effective and efficient learning process. Facilities and infrastructure are very important supporting factors in the world of

education besides teaching staff. Education will not run well without adequate facilities and

infrastructure (Nasrudin & Maryadi, 2019). The existence of educational facilities is needed in the educational process so that facilities and infrastructure are included in one of the components that must be met to carry out the educational process. Without educational facilities, the educational process will experience difficulties and the goals of education will not be achieved (Suranto et al., 2022).

Educational goals will be achieved if all supporting components in the educational process are met, and in adequate or usable conditions. If all the equipment and facilities already exist, they must be utilized and managed properly and correctly. Management activities include planning, procurement, inventory, utilization, and disposal, as well as arrangement.

Good infrastructure can create a pleasant atmosphere for both teachers and students so that learning achievement can increase and educational institutions can also improve the quality of their learning. Then with the limited educational infrastructure, it can affect student learning outcomes. Due to the growing development of

science, in the learning process activities media or visual aids are needed that can be used as a means to arouse student learning motivation. So, to get the desired learning outcomes, the teaching and learning process must be pursued as much as possible.

Improving the quality of education will be achieved if the learning process carried out in class is effective and useful for achieving the expected knowledge, attitudes, and skills. Because basically, the teaching and learning process is the core of the whole education process (Di & Bukittinggi, 2014).

Method

This writing was done with a qualitative approach to describe and analyze relevant theoretical references regarding a social problem. The method used in this writing is the literature study method, namely the method used to solve the problem by exploring written sources that have been made before. (Karimah et al., 2022).

Data collection in this research was carried out using literature studies, literature study was carried out by collecting data related to secondary data collection from several sources relevant to the research problem. Processing analysis from various data sources that have been obtained is analyzed by reading, studying, and comparing with various literature sources and interpreting the results of the data analysis so that data analysis is obtained to answer various problems in this study (Tri et al., 2023).

Results and Discussion

Definition of Educational Infrastructure Management

The term management comes from the word management (English), a derivative of the word "to manage" which means: managing/managing, implementing/executing. Management is defined as how managers (people) organize, guide, and lead people who are under them so that the business is carried out can be achieved according to what has been previously determined.

Etymologically, educational facilities are tools that are directly used to achieve educational goals, for example, classrooms, books, libraries, laboratories, etc. While infrastructure is a tool that is indirectly used to achieve educational goals, for example, locations/places, buildings, sports fields, funds, etc. The emphasis of this understanding is on its nature, facilities are direct and infrastructure is indirect in the education process.

Then the management of educational facilities and infrastructure can be interpreted as the entire process of procuring and utilizing components that

are directly or indirectly to achieve educational goals. (Ainiyah et., 2019). In the sense of management of facilities and infrastructure that has been described above, there is a process that must be carried out in implementing the management of facilities and infrastructure. In simple terms, the process includes planning, procurement, maintenance, use, and elimination that support the education process to achieve educational goals.

Infrastructure Management Process

The process of managing educational facilities and infrastructure is a process of cooperating in the effective and efficient use of all educational facilities and infrastructure. One thing that needs to be emphasized with this definition is that the management of facilities and infrastructure is a process that consists of certain steps in a systematic manner. As for the process of managing school facilities and infrastructure, it can be explained that the management of educational facilities and infrastructure in schools is closely related to the activities of procurement, distribution, use and maintenance, inventory, and elimination of educational facilities and infrastructure. This shows that there needs to be a process and expertise in its management.

Management of educational facilities and infrastructure is a process for organizing and supervising educational facilities and infrastructure as well as in procurement within educational institutions to assist in achieving educational goals. If educational facilities and infrastructure are adequate, the learning process will take place effectively and efficiently. The management of educational facilities and infrastructure is very important in the management, procurement, and supervision of educational facilities so far, educational institutions have not paid much attention to them. The management of facilities and infrastructure includes several things: The management of educational facilities and infrastructure is very important in the management, procurement, and supervision of educational facilities so far, educational institutions have not paid much attention to them. The management of facilities and infrastructure includes several things including:

Planning

The first activity in the management of educational facilities and infrastructure is the planning and procurement of facilities and infrastructure. This activity is usually carried out to meet needs under development of education in schools, replacing items that are damaged, lost, written off, or other reasons that can be accounted for so that they require replacement.

Planning for the procurement of school facilities and infrastructure can be carried out through several stages of the procedure, namely: analysis of needs, and equipment, carrying out calculations of cost estimates, integrating the budget with the priority scale of needs, appointing staff assigned the task of procurement (Rohiyatun, 2019).

Regarding the planning of school facilities and infrastructure, Sukarna explained the following procedure:

- 1) Accommodate all proposals for procuring school supplies submitted by each work unit and/or make an inventory of school supplies shortages;
- 2) Prepare a plan for the need for school supplies for a certain period, for example for one semester or one school year;
- 3) Integrate the planned needs that have been prepared with the equipment that has been available before;
- 4) Integrate the needs plan with the available school funds or budget.
- 5) Integrating the plan (list) of essential equipment needs with the available funds or budget, it is necessary to re-select by looking at the priority scale (A. Yusri, 2020).

The plan for the implementation of educational facilities is carried out by involving almost all elements in the school for the formulation of educational infrastructure planning such as the principal, deputy head of school, staff, teachers, students, guardians of students, etc. (Astuti, 2021).

Procurement

The procurement of educational facilities and infrastructure is an effort to realize the planned procurement of facilities and infrastructure that has been prepared previously. Schools often receive educational facilities and infrastructure assistance from the government. However, this assistance was limited and not always available, so schools were required to always try to procure equipment in other ways (A. Yusri, 2020). The ways that can be done by the school get the equipment needed include: (Fajartriani & Karsiwan, 2021):

- 1) Purchase

In purchasing the required infrastructure equipment, schools can utilize funds from school operational funds (BOS) and the school treasury.

- 2) Acceptance of gifts or donations
These funds can come from donations from government agencies or institutions, it can be in the form of donations/grants of textbooks.
- 3) Repair
The method of fulfilling the needs for infrastructure in schools apart from buying and receiving donations is through repairs. Repairs can be made when infrastructure facilities have been damaged and are not suitable for use by students. In this repair activity, the facilities that are often repaired are tables, chairs, and painted walls which need to be cleaned/dirty. In carrying out the process of procuring facilities and infrastructure, schools should involve all components of the school starting at the work meeting at the beginning of the year.
- 4) Use
Use can be said to be the activity of utilizing educational facilities and infrastructure to support the educational process to achieve educational goals. The use of school facilities and infrastructure is the responsibility of the school principal. However, the principal can delegate his work to the vice principal (Fajartriani & Karsiwan, 2021).
- 5) Inventory
Inventory activities must be carried out regularly and in an orderly manner. Inventory activities are also the main thing that must be done because it has been regulated by the government and every school must be able to account for it to the State/community/users.

Maintenance

In principle, maintenance activities are carried out so that each facility and infrastructure is always ready to use in teaching and learning processes/activities. The steps that can be taken in the maintenance of facilities and infrastructure are:

- 1) Store in the room/shelf to avoid damage;
- 2) Clean from dirt/dust;
- 3) Examine or check the condition of facilities and infrastructure;
- 4) Replace damaged components;
- 5) Make repairs to damaged facilities or infrastructure (Jurnal et al., 2019).

Deletion

The removal of facilities and infrastructure is an activity of freeing facilities and infrastructure from

the applicable accountability with justifiable reasons. The objectives of eliminating school facilities and infrastructure in the 2007 Ministry of National Education were:

- 1) Prevent or at least limit the waste of maintenance costs for facilities and infrastructure whose condition is getting worse, redundant or damaged, and can no longer be used;
- 2) Lighten the workload of inventory implementation;
- 3) Freeing the room from the accumulation of items that are no longer used;
- 4) Freeing goods from the responsibility of work managers (Judge, 2016).

The process of removing facilities and infrastructure in schools is often carried out at the beginning of the school year, including removing books that are no longer by the applicable curriculum/are damaged, printers that can no longer be repaired/costly repairs, tables/benches, chairs, badly damaged chalkboards and other equipment.

Educational Infrastructure and Quality Improvement Facilities

An educational institution is a place to build a quality generation. With that, it is expected to be able to create quality education as well to produce this generation. To meet the need for quality education, educational institutions must try and strive to manage education as well as possible so that the desired quality can be achieved (Sa'diyah, 2018). This can be done in various ways. One way is to improve and optimize the management of facilities and infrastructure.

Schools that have adequate facilities and infrastructure will be able to improve the quality of school education. This happens because adequate facilities and infrastructure will support learning activities to obtain the desired results. This can be supported by the existence of facilities and infrastructure management which aims to help prepare and organize all the equipment needed for the implementation of the educational process to help smooth the teaching and learning process (Adilah & Suryana, 2021).

The principal is the educational component that has the most role in improving the quality of education. The principal is the driving force behind educational institutions, setting policy directions to achieve educational goals (Sanjani, 2019). As stated by Rosyandi and Pardjono that the position of the principal determines the direction of an institution, and regulates the school program. The principal is

expected to bring the teacher's work spirit and build a school culture in improving the quality of education. With this, the principal has the authority to carry out, optimize, supervise and coordinate the management of educational facilities and infrastructure so that they can run well under the goals of educational institutions (Rosyandi & Pardjono, 2015).

In the learning process, an educator certainly requires the existence of facilities and infrastructure that can support the learning activities of their students. Apart from the teacher's ability to organize learning activities, the support of facilities and infrastructure is very important in helping teachers. The more complete educational facilities and infrastructure available will make it easier for teachers to carry out their duties as educators.

Conclusion

One of the efforts to improve the quality of education is to optimize the management performance of educational facilities and infrastructure. The management of educational facilities and infrastructure includes the process of planning, procurement, use, inventory, maintenance, and elimination. This aims to help prepare and organize all the equipment needed for the implementation of the educational process to help smooth the teaching and learning process.

Schools are said to be of good quality if they have adequate facilities and infrastructure. Because the existence of adequate facilities and infrastructure will support learning activities to obtain the desired results. From optimizing it is expected to be able to facilitate the achievement of effective learning, to improve the learning quality of students. Thus the role of facility and infrastructure management has a major influence on improving the quality of education.

Suggestion

As for suggestions that can be conveyed by researchers to further researchers, it is hoped that they can develop and modify this research by presenting several other supports.

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