

# Management Of Facilities And Infrastructure In Education Quality Development: A Case Study At Al-Munawwir Islamic Boarding School

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**Abstract:** The influence of facilities and infrastructure management on the quality of education in schools is very significant. Adequate and well-maintained educational facilities and infrastructure have a positive impact on the smoothness of the learning process as a result the quality of education in schools will increase. The purpose of this study was to determine and describe how the planning, procurement, organization, and use of facilities and infrastructure in improving the quality of education at Al-Munawwir Islamic boarding school. This research was conducted at Al-Munawwir Islamic boarding school using a descriptive qualitative approach. Data sources were obtained through observation, interviews and documentation. Data analysis was carried out by reviewing the data obtained during the data collection process and presenting the data and then drawing conclusions. The data validity technique uses triangulation techniques. The results showed that Al-Munawwir Islamic boarding school has implemented facilities and infrastructure management with steps, namely planning through annual program meetings then organizing with the procurement of facilities and infrastructure, monitoring is carried out by the head of the facilities and infrastructure section to control, repair and remove facilities and infrastructure that do not meet standards, as for maintenance, namely maintenance of infrastructure facilities that have been made available by all boarders. However, there are obstacles such as irregular inventory recording because it is carried out when there is a need, the discovery of facilities that are no longer suitable for use but are still used in activities, and the need for additional facilities and infrastructure at Al-Munawwir Islamic boarding school. It's hoped that this research can be used as a reference material by Islamic boarding schools to pay more attention to the management of facilities and infrastructure, so that the better the management, the higher the quality of education and produce quality human resources in the future.

**Keywords:** Facilities and infrastructure, Islamic boarding schools, Management, Quality of education.

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## Introduction

Islamic boarding schools as one of the main pillars in Islamic religious education in Indonesia have a strategic role in shaping the character and knowledge of students. Historically, Islamic education in boarding schools is the oldest institution in Indonesia (Triana et al., 2023). Islamic boarding school education contributes significantly and significantly to Indonesian education as well as Islamic civilization in Indonesia (Arif, 2018). To improve the quality of education in boarding

schools, adequate management of facilities and infrastructure is needed. The quality of infrastructure in educational institutions is positively correlated with students' academic achievement (Juhaeni et al., 2021). In addition, the physical condition of school buildings and facilities has a direct influence on learners' mental health and learning motivation, which in turn affects academic achievement (El-Nemr, 2022) (MKWAMA, 2023).

Improving service quality will maximize customer utility as a picture that an institution is

superior to others, One way to measure the quality of services provided by schools is to see how school facilities and infrastructure are provided to customers (Firmansyah et al., 2018). School facilities and infrastructure must have the ability to support the development of learning activities and improve the quality of education both on a macro and micro scale (Sugiyono, 2021). Good utilization of facilities and infrastructure has a positive impact on improving the quality of an institution, creating a conducive learning environment, and encouraging student achievement both academic and non-academic (Winarti et al., 2023) (Anshori et al., 2022). Therefore, the components of facilities and infrastructure tools must be continuously updated along with the advancement of science, information and technology which is quite advanced (S. Kartika et al., 2019).

The urgency of educational facilities and infrastructure is not only related to the level of school conduciveness in terms of student learning but is an integral part of the operation of educational institutions as a whole (Marmoah et al., 2019). Educational devices such as facilities and infrastructure must be managed professionally because they are an important part of educational administration, if the mechanisms and procedures are clearly arranged, the management of facilities and learning resources made by the facilities and infrastructure team can be maximized (Ahmad, 2021). Some principles that need to be considered in managing facilities and infrastructure are: principles in achieving goals, efficiency, administration, and clarity of responsibility (Sinta & Iqbal, 2023). However, not everything goes as expected, the reality in the field is that many schools still do not have adequate facilities and infrastructure. Not all educational institutions realize the importance of managing assets and wealth, many institutions do not even realize the wealth of the institution, as a result, the institution cannot optimize the resources owned by the institution (Rofiq, 2017).

The importance of facilities and infrastructure management starts from the strategic planning side in order to ensure that all facilities needed by the boarding school are available and optimally used. Schools that have strategic planning for facilities

and infrastructure management can improve operational efficiency and the overall quality of education (Norfatin et al., 2024) (Yuniarti et al., 2023) (Gluch et al., 2023). Islamic boarding schools must conduct a careful needs analysis and plan the development of facilities that support their educational vision and mission. Investment in well-planned educational facilities will result in improvements in long-term educational output (Yogiantoro et al., 2019) (Pillay & Shipalana, 2023) (Elfina, 2022). Effective management of facilities and infrastructure includes not only physical construction, but also good maintenance is essential to ensure the long-term sustainability of the facilities. Systematic and continuous maintenance management will help reduce repair costs and ensure facilities remain in good condition. This is relevant for Islamic boarding schools that often face budget constraints. Therefore, it is necessary to emphasize the importance of community involvement in the maintenance of facilities and infrastructure, especially in religious-based educational institutions, where community participation can encourage shared ownership of existing facilities.

The facts above make the author assume that behind the quality of boarding school education, it must be influenced by well-systematized management of facilities and infrastructure. This makes the author interested in conducting research related to the management of facilities and infrastructure in developing the quality of education at Al-Munawwir Islamic boarding school. This research aims to analyze and describe the practice of facilities and infrastructure management in developing the quality of education at Al-Munawwir Islamic boarding school and it is hoped that a concrete solution can be found to the problems of facilities and infrastructure management in an effort to improve the quality of education in pesantren.

## **Materials and Methods**

This research uses a descriptive qualitative approach method (I. Kartika et al., 2024). Data collection techniques obtained through are

observation, interviews and documentation. Interview is a data collection technique that involves direct interaction between researchers and respondents (Nurdin et al., 2024)(Lah et al., 2024). Interviews were conducted with informants who had been determined and were considered to have information related to the research (Ikhsan Butarbutar & Nasution, 2024) (Kurniawan et al., 2024). The interviewees included the head of the madrasah, teachers, and administrators in the field of facilities and infrastructure where these parties play an important role in the implementation of madrasah facilities. In addition to interviews, the author also made observations to see directly the surrounding environment related to the behavior of pesantren residents, learning facilities and infrastructure, and other conditions. Meanwhile, documentation is useful for obtaining secondary data that can support findings from observations and interviews (Azhar et al., 2024). Documents used as data sources are data from written sources such as archives, reports, and other official documents belonging to Al-Munawwir boarding school.

This research was conducted at Al-Munawwir Komplek Q Islamic boarding school located in Bantul regency, Yogyakarta Special Region province. Data analysis was carried out by reviewing the data obtained during the data collection process and presenting the data and then drawing conclusions(Weli et al., 2024) (Mutholingah et al., 2023). The data validity technique uses data source and method triangulation techniques that utilize more than one data source and method to check the consistency and accuracy of information (Zakariyah, 2024)(Ni'matul Ulya, 2023).

## Results and Discussion

### Results

1. Planning. Based on an interview with the head of madrasah, planning is carried out conditionally. If there are facilities needed, the management will convey them to the teachers and madrasah head to be discussed in monthly meetings so that decisions can be made by combining the planned needs with the available funds from the boarding school.

2. Organizing. Based on interviews and observations conducted by researchers at Al-Munawwir Islamic Boarding School, the procurement of facilities and infrastructure is carried out to support learning activities so as to improve the quality of education. Procurement of facilities and infrastructure of Al-Munawwir Islamic Boarding School is carried out by purchasing using cottage funds obtained from monthly tuition payments of the students. The organizing process begins with planning according to the needs set out in the monthly meeting, then implemented by the madrasah head with the coordination of the cottage treasurer, after which the sarpras management is assigned by the madrasah head to provide the required items. However, due to limited funds, some items must be postponed so that they interfere with the operation of Al-Munawwir Islamic Boarding School.

3. Monitoring. Based on observations made by researchers, it shows that controlling the use of facilities and infrastructure at Al-Munawwir Islamic Boarding School is carried out every time, as evidenced by the checking and updating of inventory data once a month by the management of the sarpras field. After checking, the sarpras management will know which items are still suitable for use and which items are damaged. Items that are still suitable for use will continue to be used, but damaged items are grouped into two groups. First, if the damage is slight and still feasible to use, it will be repaired. Second, items that are severely damaged and impossible to repair will be deleted.

4. Maintenance. All school community members including the head of madrasah, teachers, students, administrators, etc. actively participate in the maintenance of facilities and infrastructure that have been available at Al-Munawwir Islamic Boarding School. This is evidenced by the picket cleaning of the room by students before learning activities begin and tidying it up again when it has been used. The management also participates in carrying out the overall picket of madrasah facilities such as cleaning the office every month. On the other hand, teachers also contribute to maintenance as evidenced by the use of these facilities to assist learning activities to the fullest

and then tidy them up again, such as the use of markers, blackboards, fans, etc.

## Discussion

### A. Facilities and Infrastructure Management at Al-Munawwir Islamic Boarding School

Pesantren as one of the educational institutions in Indonesia tries to integrate religious and general knowledge in its teaching curriculum. The quality of education is influenced by various components, including the management of facilities and infrastructure. The management of educational facilities and infrastructure in pesantren is very important to improve the quality of education. This management includes a variety of processes, including planning, organizing, monitoring, and removing facilities and infrastructure.

#### 1. Planning

Planning comes from the word 'plan' which means a framework that will be carried out in the future. Effective management starts with a comprehensive planning process that identifies educational facility needs based on the school curriculum and learners' needs. The process involves a series of strategic decisions that aim to optimize resources, improve the learning environment, and ensure that facilities meet learners' educational needs. Planning looks at existing resources and determines what additional facilities are needed to support learning objectives (Muhamad Toyib et al., 2024) (Eka Wardana & Mawardi, 2021)

In general, planning is carried out at the beginning of each learning year at a coordination meeting, but the planning of facilities and infrastructure at Al-munawwir Islamic Boarding School is carried out conditionally and discussed during monthly meetings between the madrasah head, teachers, and administrators. As conveyed by the administrator of the sarpras field that planning is carried out as needed, if facilities and infrastructure are found that require procurement, the administrator will record and report it to the head of the madrasa, after which only coordination of procurement

planning is held by contacting the cottage treasurer in relation to the funds needed.

#### 2. Organizing

This step includes procuring facilities by managing existing resources, goods can be obtained through purchases, donations, or government funding. The procurement process must be transparent and efficient to maximize education funding (Cholis, 2023). Almost all facilities at Al-Munawwir Islamic Boarding School were obtained by purchase, although some were obtained from grants. Purchases are made using the private funds of Al-Munawwir Islamic Boarding School, namely from the payment of tuition fees of the students.

Procurement of goods at Al-Munawwir Islamic Boarding School is not always immediately possible because of the limited source of funds that only rely on the tuition fees of the students. Procurement of goods is carried out sequentially according to the planning list, but if the item is deemed very important to be used immediately, the purchase will be prioritized.

#### 3. Monitoring

Monitoring of all educational materials and infrastructure is essential. This includes regular updates to ensure that all items are recorded and in good and usable condition. However, some institutions still rely on manual inventory systems, which should be improved with digital solutions (Syahri et al., 2023). Recording is done to maintain and create an orderly administration of facilities and infrastructure owned by madrasah. The obstacles in the process of recording inventory data that are still manual in nature hinder the performance of the management of the facilities and infrastructure sector, they still record in a manual inventory book even though data back-up is also carried out by recording on a computer.

Repairs are carried out by the madrasah head and administrators if damaged facilities are found but can still be repaired, but if the facility is severe enough and can no longer be used, the step that can be taken is

deletion. The elimination of facilities and infrastructure that are no longer suitable for use helps madrasah to allocate resources more efficiently, this is important so that the budget can be used to procure new facilities that are more relevant to the needs, facilitate the control of facilities and infrastructure, and save madrasah storage space because if it is still maintained or stored it will only narrow the available space in the boarding school. As an example of an item that has been deleted is a computer device, before the deletion, the computer has been repaired several times, but the cost of repairs is getting more expensive and the item is still often damaged, so the deletion step is taken for fund efficiency. On the other hand, facilities such as tables and chairs are found to be damaged but still maintained, it is feared that these items endanger students so that repair or deletion steps are needed.

#### 4. Maintenance

Regular maintenance of facilities is very important to create a conducive learning environment. Regular maintenance ensures that all educational equipment and facilities are in good condition, which directly supports the teaching and learning process (Yuniarti et al., 2023). Well-maintained infrastructure will improve the overall quality of education by providing learners and teachers with the necessary equipment for effective learning (Elfina, 2022). This involves regular inspection and repair to prevent damage to physical assets.

Proper maintenance is essential to ensure the safety of the entire madrasah community. The maintenance of the facilities and infrastructure of Al-Munawwir Islamic Boarding School is carried out by all members of the community, including the head of the school, teachers, administrators, and students. Proper facilities and infrastructure help teachers and students for smooth learning, in contrast, if these facilities are damaged, it will certainly interfere and even potentially endanger their safety. Regular inspection and maintenance helps identify potential hazards to health and

safety, thus ensuring a safe learning environment in Al-Munawwir Islamic Boarding School.

#### B. Benefits of Facilities and Infrastructure Management on Education Quality

Al-Munawwir Islamic Boarding School has two teaching focuses, namely *hifdzul qur'an* and *kitab kuning*. The Islamic classic book (*kitab kuning*) teaching organized by Madrasah Salafiyah 3 aims to equip its students to be able to read, understand, and use the Islamic classic book (*kitab kuning*) as a reference for learning. The activities organized by Madrasah Salafiyah 3 are carried out to support the quality of education at Al-Munawwir Islamic Boarding School, including *maktabah syamilah* training to access digital-based Islamic literature, *bahtsul masail*, teaching experience practice (PPM), and the final project, which is a kind of thesis in college which integrates general science with Islamic literature. It is hoped that these various activities will be able to produce a generation of general-minded *santri* without leaving the footsteps of *turots ulama*.

Management of facilities and infrastructure plays an important role in determining the quality of education in an institution. A well-maintained educational environment equipped with adequate facilities and infrastructure significantly improves learner learning outcomes, motivation, and overall academic achievement. When learners perceive the quality of their learning environment as adequate, their motivation to engage in academic activities increases (Arfani et al., 2024). The existence of adequate facilities not only motivates learners but also supports teachers in delivering effective teaching, this synergy between infrastructure quality and teaching effectiveness further increases learner engagement and motivation (Cerinda Sianipar et al., 2023).

Learning at Al-Munawwir Islamic Boarding School is running as planned by stakeholders, namely focusing on *hifdzul qur'an* and yellow Islamic classic books, although there are limitations in the provision of facilities and infrastructure such as the absence of a library that specifically provides yellow Islamic classic

book literature, limited learning space so that in one room sometimes divided into two learning classes with a wooden partition, damaged table and chair facilities, and limited sources of financing funds. So it is necessary to improve the overall management system of facilities and infrastructure so that the available facilities can be used optimally and the provision of goods needs to be planned at the beginning of each school year so that it is more systematic. It is expected that the more optimal the management of facilities and infrastructure, the more the quality of education at Al-Munawwir Islamic Boarding School will improve.

### Conclusions

The quality of infrastructure is intrinsically linked to learner motivation. Well-maintained facilities foster a positive learning environment that promotes learner engagement, learner satisfaction and ultimately academic success. Educational institutions should prioritize investment in their infrastructure to improve educational outcomes and motivate learners effectively. Researchers found that the management of facilities and infrastructure at Al-Munawwir Islamic Boarding School has been running well even though there are obstacles in its implementation such as the planning process that is not carried out at the beginning of each school year or conditionally, inventory recording that is still manual, and procurement of goods that are

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