

The Effectiveness of Implementing the Zero Waste School Program on Enhancing the Values of Cooperation and Student Participation at SMPN 1 Taliwang

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Abstract

The school programs play a crucial role in shaping students' characters, including the spirit of cooperation (gotong royong). The value of gotong royong is important to instill in students as it contributes to broader educational goals. This research aims to explain the implementation of the zero waste school program in enhancing students' spirit of cooperation and participation at SMPN 1 Taliwang. This study employs a descriptive method with a Mix Method Research (MMR) approach. The research will involve 7th and 8th-grade students, selected using purposive sampling. The research instrument utilized is a questionnaire to measure students' spirit of cooperation and participation. The findings of the research indicate that: 1) the implementation of the zero waste school program achieved an average score of 4.2, categorized as "Good"; 2) there was an increase in the spirit of cooperation, with an average score of 4.3, categorized as "very high"; 3) student participation received an average score of 4.5, indicating a generally very high level (close to the maximum score of 5.00); and 4) the supporting factors for implementing the zero waste school program at SMPN 1 Taliwang were reinforced by the "Clean Saturday Movement" school program. In conclusion, the implementation of the zero waste school program to enhance students' spirit of cooperation and participation at SMPN 1 Taliwang has been effective. It is recommended to continue and further develop the zero waste school program while involving all school stakeholders. This approach will ensure the program's sustainability and a lasting positive impact on students' character and participation.

Keywords: Effectiveness, Zero Waste, Character, Student Participation

Abstrak

Program sekolah memiliki peran penting dalam membentuk karakter siswa, termasuk karakter gotong royong. Karakter gotong royong menjadi hal yang penting untuk ditanamkan pada siswa karena dapat membantu dalam mencapai tujuan pendidikan yang lebih luas. Penelitian ini bertujuan untuk menjelaskan pelaksanaan program sekolah zero waste dalam meningkatkan karakter gotong royong dan partisipasi siswa di SMPN 1 Taliwang. Penelitian ini menggunakan metode deskriptif dengan pendekatan Mix Method Research (MMR). Penelitian ini akan melibatkan siswa kelas 7 dan 8 dengan teknik pengambilan sampel ialah menggunakan purposive sampling. Instrumen penelitian yang digunakan adalah angket untuk mengukur karakter gotong royong dan partisipasi siswa. Hasil penelitian telah menunjukkan bahwa: 1) pelaksanaan program sekolah zero waste mendapatkan hasil nilai rata-rata 4,2 yang bermaksud pada kategori "Baik"; 2) peningkatan nilai gotong royong dengan nilai rata-rata 4,3, yang bermaksud peningkatan karakter gotong royong bermaksud pada kategori "sangat tinggi"; 3) partisipasi siswa memiliki rata-rata 4.5 yang secara keseluruhan sangat tinggi (dekat dengan nilai maksimum 5.00); dan 4) faktor pendukung pelaksanaan program sekolah zero waste SMP Negeri Taliwang telah didukung dengan program sekolah Gerakan Sabtu Bersih. Penelitian ini dapat disimpulkan bahwa penerapan program sekolah zero waste terhadap peningkatan karakter gotong royong dan partisipasi siswa di SMP Negeri 1 Taliwang telah berjalan dengan baik. Disarankan agar program sekolah zero waste terus diterapkan dan dikembangkan dengan melibatkan seluruh stakeholder sekolah. Hal ini akan memastikan keberlanjutan program dan dampak positif yang berkelanjutan terhadap karakter dan partisipasi siswa.

Kata Kunci: Efektifitas, zero waste, karakter, gotong royong, partisipasi siswa.

INTRODUCTION

The increasing environmental problems and waste pose challenges for the government and society in maintaining sustainable environmental quality. One solution proposed by the government to address environmental issues is through the zero waste program (HS et al., 2021). This program aims to reduce waste generated by the community by managing waste effectively so that it can be reused. In its

implementation, the zero waste program involves not only the government and society but also schools as educational institutions that play a crucial role in shaping students' characters for collaboration. The spirit of mutual cooperation becomes essential to instill in students as it can aid in achieving broader educational goals. Through the spirit of mutual cooperation, students can learn to collaborate, help each other, and appreciate differences within the school

environment (Widodo, 2019; Mulyani et al., 2020). One way to instill the spirit of mutual cooperation in students is through school programs. School programs are effective means to introduce and teach the values of mutual cooperation to students (Susilawati et al., 2021).

Forming students' characters through school programs, including the spirit of mutual cooperation, plays a crucial role, especially in the context of the zero waste program. School programs can serve as effective platforms to introduce and teach the values of mutual cooperation to students. However, research is still needed to measure the effectiveness of implementing school programs in enhancing students' mutual cooperation character to support the zero waste program. Therefore, the implementation of school programs to enhance students' mutual cooperation character in supporting the zero waste program still needs improvement.

This can be seen in the poorly managed surrounding environment and the fact that many students still lack the spirit of mutual cooperation in their daily lives. Thus, this research aims to identify the effectiveness of implementing school programs in enhancing students' mutual cooperation character to support the zero waste program in West Sumbawa Regency. The expected contribution of this research is to provide benefits for the government, schools, and the community in West Sumbawa Regency in improving the quality of the environment and students' characters.

Pranata et al. (2022) stated that school programs focusing on zero waste can heighten students' awareness of the importance of environmental conservation from an early age. Additionally, such programs can reduce the school's operational costs in waste management. Several factors affecting the success of School Programs Supporting Zero Waste include school support, active student participation, availability of facilities and supporting infrastructure, as well as collaboration with relevant parties such as local government and the community (Sari, 2018). In the social context, the spirit of mutual cooperation can help enhance solidarity and togetherness within the community (Rolitia, et al., 2016).

Moreover, the results of this research can be used as a reference for developing more effective school programs to shape students' mutual cooperation character and support the zero waste program in other areas. Some issues identified from interviews in the initial research at schools on May 3, 2023, regarding the improvement of students' mutual cooperation character in supporting the zero waste program in West Sumbawa Regency include: 1. Lack of Understanding About the Zero Waste Program 2. Insufficient Role of Schools in Instilling the Spirit of Mutual Cooperation 3. Lack of Proper Waste Management in Schools 4. Poorly Managed Surrounding Environment From these issues, it is evident that there are many aspects that need improvement in the implementation of school programs to enhance students' mutual cooperation character in supporting the zero waste program in West Sumbawa Regency.

Therefore, the researcher is interested in conducting a study titled 'The Effectiveness of the Implementation of the Zero Waste Program on Improving the Spirit of Mutual Cooperation and Student Participation at SMP Negeri 1 Taliwang.' The aim of this research is to explain the implementation of the zero waste school program in enhancing the spirit of mutual cooperation and student participation at SMP Negeri 1 Taliwang.

METHODS

This research used mix method research (MMR) approach. The data analysis method to be used in this study is a mix method analysis. This research is a descriptive study that incorporates the mixed method research approach in its implementation (Creswell, 2016). It is a research method that integrates quantitative and qualitative research approaches in a single study. It focuses on research outcomes and processes, making it suitable for evaluating specific programs (Samsu, 2017).

The population in this study consists of all 7th and 8th-grade students at SMP Negeri 1 Taliwang for the academic year 2022/2023. The population of 7th-grade students consists of 7 classes with a total of 224 students, including 109 male students and 115 female students. The 8th-grade population is also 224, with 7 classes,

including 120 male students and 103 female students. Thus, the total number of students in the 7th and 8th grades is 448 students as research respondents.

The sampling technique used in this study is nonprobability Sampling, specifically purposive sampling. Nonprobability Sampling is a sampling technique that does not provide an equal chance for all elements of the population to be selected as samples. Purposive sampling, on the other hand, is a sampling technique that considers certain factors to obtain more representative data (Sugiyono, 2016: 300). With a population of 448, the sample size is 205 students.

The instrument used in this research is a questionnaire. The use of a questionnaire is highly effective in data collection, aiming to gather information relevant to the research or survey objectives (Sugiyono, 2016: 105).

FINDINGS AND DISCUSSION

Data Analisis Pelaksanaan Program Sekolah Zero Waste

The following is the result of data analysis on the implementation of the zero waste school program, based on the questionnaire filled out by 205 students, which has obtained an average score of 4.2, indicating the 'Good' category of students towards the implementation of the program in supporting the zero waste school program. The results of the data analysis of the zero waste school program implementation can be seen in Table 3.1 below.

Table 3.1 Data Analysis of the Zero Waste School Program Implementation.

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
B ^a	205	3.25	5.00	4.2378	.38963
Valid N (listwise)	205				

a. B=Penerapan Sekolah Zero Waste

Analysis Data on Improving Students' Mutual Cooperation Character

The data analyzed is related to improving students' Mutual Cooperation Character. The results showed that there were 205 students who had been examined and there were no missing data (Valid N = 205). The range of scores for "Improving the Character of Mutual

Cooperation" is between 3.33 to 5.00, with an average score of 4.30. The relatively low standard deviation of 0.37054 indicates that the majority of data tends to be close to the average. This shows relatively high consistency in "Improving Mutual Cooperation Character" among students in this sample. Based on the very high average score (4.3033), it can be concluded that overall, students in this sample experienced an increase in good mutual cooperation character. Analysis of data on improving students' mutual cooperation character can be seen in table 3.2 below.

Table 3.2 Data Analysis on Improving Students' Mutual Cooperation Character Data Analisis Partisipasi Siswa

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
C ^a	205	3.33	5.00	4.3033	.37054
Valid N (listwise)	205				

a. C=Peningkatan Karakter Gotong Royong

Student participation had data from 205 students, none of which were missing (Valid N = 205). The data ranges from 2.17 to 5.00, with an average student participation of 3.3. The relatively low standard deviation of 0.59 indicates that the majority of data tends to be close to the average. It can be concluded that overall student participation is very high (close to the maximum value of 5.00). The results of data analysis regarding student participation can be seen in table 3.3 below.

Table 3. 3 Data Analysis of Student Participation

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
D ^a	205	2.17	5.00	4.5447	.59067
Valid N (listwise)	205				

a. D=Partisipasi Siswa

Zero Waste School Program

In this section the researcher describes the results of data analysis based on documentation studies that have been carried out with the finding that in supporting the implementation of the zero waste school program, Taliwang State Middle School has been supported by the Clean Saturday Movement

school program. This activity has been stated in the form of the Principal's Decree (SK) number 422/019.1 /SMP1Tlg/2023.

Implementation of the zerowaste school program to enhance the spirit of mutual cooperation and student participation at SMPN 1 Taliwang.

Based on the observation and documentary study results, it is evident that SMP Negeri 1 Taliwang has implemented a program or activities supporting the implementation of a zero waste program in the school, such as the Clean Saturday Program "Integrated Clean School Movement. This program is documented in the School Principal's Decision Letter number 422/019.1/SMP1 Tlg/2023. Furthermore, the Clean Saturday program, known as the "Clean Saturday Movement," is a weekly routine activity held every Saturday morning from 07:00 to 08:00 WITA. This program is part of the school's efforts to support the zero waste school initiative, and it is mandatory for all educators and students to participate in the Integrated Clean School Movement (GESIT).

After researching the implementation of the zero waste school program at SMPN 1 Taliwang and its impact on the improvement of the spirit of mutual cooperation and student participation, the results show that SMPN 1 Taliwang has successfully implemented the zero waste school program. The program involves the entire school community, including students, teachers, and staff. Efforts include raising awareness about waste and environmental management, providing education on cleanliness, and promoting the use of eco-friendly items in daily school activities.

Following the implementation of the zero waste school program, there has been a significant change in the spirit of mutual cooperation among students at SMPN 1 Taliwang. In waste management and environmental cleanliness, students have become more aware of their shared responsibility to maintain cleanliness correctly. They actively participate in school environmental cleaning activities, such as cleaning the school yard.

In addition to the spirit of mutual cooperation, the zero waste school program has also had a positive impact on the level of student

participation in ongoing environmental-related activities. Students are actively involved in various waste management activities, such as attending recycling workshops, designing posters on the importance of reducing plastic waste, and participating in environmental campaigns in the surrounding community.

Various factors contribute to the success of the zero waste school program and the improvement of the spirit of mutual cooperation and student participation. Factors mentioned in interviews with teachers and staff include:

The commitment of the school and teachers to consistently support and oversee the program. Inclusivity of the program involving the entire school community, creating collective awareness of the importance of environmental conservation. An educational approach that teaches students about the negative impact of waste on the environment and how to address it. Support from parents in supporting their children's participation in the zero waste school program.

The results of the zero waste school program have important implications for the development of character education and the environment in schools. The program has proven effective in enhancing the spirit of mutual cooperation and student participation. Therefore, it is recommended to continue and develop the program by involving all school stakeholders. Additionally, schools should integrate environmental education and waste management aspects into the curriculum to make learning more holistic and sustainable.

In conclusion, the implementation of the zero waste school program at SMPN 1 Taliwang has successfully enhanced the spirit of mutual cooperation and student participation. This program helps teach students the importance of caring for the environment and working together to address environmental issues to reduce the negative impact of waste. Thus, the implementation of the zero waste school program is a positive step in supporting character education and environmental awareness among students at SMP Negeri 1 Taliwang. This research has revealed that the zero waste school program has improved the spirit of mutual cooperation and student participation, consistent

with other studies conducted by Darmansyah, A., & Susanti, A. (2023), and Pranata et al. (2022).

CONCLUSION

The implementation of the zero waste program has significantly enhanced the spirit of collaboration among students at SMPN 1 Taliwang. The students actively participate in activities to clean the school environment and feel a shared responsibility to maintain cleanliness. The zero waste program also has a positive impact on students' involvement in environmental activities by increasing their awareness of the importance of a clean and sustainable environment.

One of the supporting factors for the success of the zero waste school program at SMPN 1 Taliwang, West Sumbawa Regency, is the existence of the Integrated Clean Saturday Movement program, which has been formalized in the Headmaster's Decree. The zero waste school program continues to be implemented and developed by engaging all school stakeholders. This ensures the sustainability of the program and a continuous positive impact on the character and participation of students.

SUGGESTION

It is recommended that the zero waste school program continues to be implemented and developed by involving all school stakeholders. This will ensure the sustainability of the program and its ongoing positive impact on students' character and participation. Additionally, curriculum integration: Schools should consider integrating environmental education and waste management aspects into the curriculum. This will help students gain a more holistic understanding of the importance of the environment and how to contribute to maintaining cleanliness.

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