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Empowering Yosomulyo Community for a Green, Healthy, and Competitive Environment through the KKL-PPM Program

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ABSTRACT

The problems identified included suboptimal household waste management, limited directional signage, low awareness of clean and healthy living behavior among elementary school children, the need for MSME promotional assistance, low learning motivation among children outside school hours, limited access to basic health screening, and the risk of bullying and promiscuity among secondary school students. The activities aimed to improve the awareness, knowledge, and independence of the RW 03 community through an integrated program covering environmental, health, educational, economic, and social aspects. The methods used included training and practice, counseling and awareness-raising, mentoring, and direct participation with residents. The results showed that the construction of a waste point and a waste decomposition education board and the installation of directional signboards in RT 07–09 each reached 100% completion; diarrhea prevention counseling and handwashing practice, together with savings education, were delivered to 30 students of SDN 7 Metro Pusat; promotional banner assistance for the Bandrek Bu Nanik MSME reached 100% completion; weekly free tutoring and free health check-ups were provided for RW 03 residents; Stop Bullying and Promiscuity Prevention education was delivered to 42 students of SMK Aviation Merah Putih School; and residents and students actively participated in the 81st Indonesian Independence Day celebration and various social-religious activities.

Keywords: *Community Empowerment, Environment, Health, Education*

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INTRODUCTION

Community empowerment is a form of higher education service directed at enabling people to recognize their potential, understand problems, and develop the capacity to address needs in their own environment. The empowerment approach is implemented in an integrated manner and covers various aspects of people's lives, such as the environment, health, education, the economy, and social life. The Malahayati University Field Work Lecture (KKL-PPM) is a form of student service implemented through direct involvement with the community in identifying needs and implementing programs that correspond to field conditions (Muna, 2022).

RW 03 Yosomulyo Village, Central Metro District, Metro City is the location for the implementation of the KKL-PPM Group 20 from July to August 2026. This area has a good potential for community participation in social and community activities. Some of the conditions that require strengthening through empowerment activities include the management of household waste that is not optimal, the limitations of environmental markers, the low awareness of clean and healthy living behaviors in school-age children, the need for promotion for MSME actors, the lack of assistance for children's learning outside school hours, limited access to basic health checks, and the risk of bullying and promiscuity in adolescents.

Environmental problems are evident in residents' habits of not sorting organic and inorganic waste at the source. This condition became the basis for the creation of waste points and waste decomposition education boards as the main program of Group 20. This waste-sorting approach is consistent with the concept of a community-based waste developed by the Ministry of Environment and Forestry (KLHK, 2021), which aims to encourage citizen participation in waste sorting while increasing the economic value of independently managed waste. The educational board contains information on the time required for various types of inorganic waste to decompose: styrofoam takes hundreds of years, plastic bottles approximately 450 years, aluminum cans 80 to 200 years, and Tetra Pak packaging about 5 years (Directorate of Waste Management of the Ministry of Environment and Forestry, 2021; Lampung Provincial Environment Agency, 2023). In addition, the shortage of environmental directional signs was addressed through the production and installation of road signage in RT 07, RT 08, and RT 09.

In the health aspect, counseling on diarrhea prevention and the correct practice of handwashing with soap were carried out for 30 students of SDN 7 Metro Pusat. Handwashing with soap has been proven effective in reducing the risk of diarrheal diseases in children, and it is also one of the cheapest and easiest infectious disease prevention measures to implement (Ministry of Health of the Republic of Indonesia, 2021, 2022). On the same day, counseling on the benefits of saving from an early age was also conducted to foster the habit of managing simple finances among elementary school-age children. The health program was further strengthened through free health checks for RW 03 residents, consisting of blood pressure checks and other simple health examinations as an early detection effort.

In the economic aspect, MSME actors in RW 03, including the Bandrek Bu Nanik MSME, need to improve the promotion and accessibility of their business information. Assistance was provided through the creation of promotional media in the form of business banners, an approach consistent with various studies showing that promotional media can increase the visibility and competitiveness of MSME products (Nurhikmah et al., 2024; Devi & Rusma, 2020).

In the educational and social aspects, the Free Tutoring Program is conducted weekly to increase the learning motivation of RW 03 children (Hidayat & Mansuryah, 2025) and to strengthen familial bonds between students and residents. Stop Bullying and Promiscuity Education was carried out for 42 students of SMK Aviation Merah Putih School to increase understanding of the impact of bullying, the dangers of promiscuity, and the importance of reporting bullying (Putri, 2024; Nurhikmah, Musaldin, et al., 2024). The KKL-PPM students also actively participated in the 81st Indonesian Independence Day Commemoration and in various social and religious activities, such as community mutual cooperation, religious recitation, teaching at PAUD and the Al-Qur'an Education Park, and PKK activities in the RW 03 environment.

The empowerment program was implemented by involving the community as an active partner. The Yosomulyo Village Government and the management of RW 03 provided permits, facilitated access to regional data, and fully supported the implementation of all work programs. SDN 7 Metro Pusat, SMK Aviation Merah Putih School, PAUD Rahmanda, PKK and Posyandu cadres, MSME actors, and community leaders also played roles in implementing the program according to their respective areas of responsibility.

Based on these conditions, the activities of KKL-PPM Group 20 are directed at increasing the capacity and participation of the RW 03 community in Yosomulyo Village through integrated programs in the environmental, health, economic, educational, and social fields. The implementation of these various programs is expected to produce measurable outputs while strengthening the community's ability to manage its potential and solve problems independently and sustainably.

METHOD

This service employed a participatory and collaborative approach that positions the community as a partner in implementing the activities. The activity model combines several service methods, namely training and practice, counseling and awareness-raising, continuing education, and consultation and mentoring. The KKL-PPM activities were carried out from July to August 2026 in RW 03, Yosomulyo Village. The activity targets comprised various community groups, selected according to the characteristics of each program, including residents of RW 03, students of SDN 7 Metro Pusat, students of SMK Aviation Merah Putih School, children assisted through tutoring, MSME actors, PKK and Posyandu cadres, as well as local committees and community leaders.

The implementation of service is carried out through several complementary methods. First, training and practice are used to produce waste points, waste decomposition education boards, and road signs, which students

carry out together in coordination with local RT administrators to determine strategic placement points. Second, counseling and awareness-raising are applied in educational activities on diarrhea prevention and handwashing practice, counseling on the benefits of saving, free health checks, and Stop Bullying and Promiscuity education, which are delivered through lectures, discussions, question-and-answer sessions, and direct practice. Third, continuing education is implemented through the Free Tutoring Program, which is conducted weekly. Fourth, consultation and assistance are applied to the MSME economic empowerment program through assistance in producing promotional business banners. Fifth, direct participation is implemented through student involvement in the 81st Indonesian Independence Day Commemoration as well as routine social and religious activities with residents.

RESULTS AND DISCUSSION

As of the preparation of this report, the implementation of KKL-PPM Group 20 in RW 03, Yosomulyo Village, has shown progress in the environmental, health, educational, MSME economic, and social aspects. Nine work programs have been implemented with varying levels of achievement, as described below.

Waste Point and Waste Decomposition Education Board (Main Program)

The main program of Group 20, namely the production of waste points and waste decomposition education boards, has been completed; however, at the time this report was prepared, their installation at several strategic points in RW 03 was still in progress. The waste is made from large plastic buckets labeled "Organic" and "Inorganic" to help residents sort waste at the source, consistent with the concept of a community-based waste developed by the Ministry of Environment and Forestry (2021). The educational board provides information on the decomposition time of inorganic waste such as styrofoam, plastic bottles, aluminum cans, and Tetra Pak packaging, presented visually and simply so that it is easy for all residents, including children, to understand (Directorate of Waste Management of the Ministry of Environment and Forestry, 2021; Lampung Provincial Environment Agency, 2023). Overall program progress was reported at approximately 100%.



Figure 1. Construction and installation of waste points along with waste decomposition education boards in RW 03, Yosomulyo Village

Road Signs

The road signage production and installation program has been implemented, with signs installed at several points in RW 03, namely in the RT 07, RT 08, and RT 09 areas, achieving 100% completion. This road signage serves to facilitate access and mobility for residents and newcomers in locating residents' houses and public facilities within RW 03, Yosomulyo Village. The road signage is a physical output that the community can use directly and that supports more orderly environmental management.



Figure 2. Installation of road signage RT 09 RW 03, Yosomulyo Village

Counseling on Diarrhea, Handwashing, and Saving Education

Educational counseling activities on diarrhea prevention and the correct practice of handwashing with soap were carried out on July 27, 2026 at SDN 7 Metro Pusat, with a total of 30 students. Handwashing with soap has been proven effective in reducing the risk of diarrheal diseases in children, and it is also one of the cheapest and easiest infectious disease prevention measures to implement (Ministry of Health of the Republic of Indonesia, 2021, 2022). On the same day, counseling on the benefits of saving from an early age was also held for the same 30 students to foster saving habits and awareness of managing simple finances, as a foundation for character and financial independence in the future. Both activities were completed 100% as planned.



Figure 3. Counseling on diarrhea prevention, handwashing practice with soap, and savings education for students of SDN 7 Metro Pusat

Economic Empowerment of MSMEs

The MSME assistance program in RW 03, which involves the Bandrek Bu Nanik MSME and other MSME actors in the surrounding area, is currently still in the process of creating promotional media in the form of business banners that will serve as a means of branding and product promotion so that their products become better known to the wider community. Simple digital marketing





assistance is also planned to expand marketing reach, consistent with various studies showing that promotional media and digitalization can increase the visibility and competitiveness of MSME products (Devi & Rusma, 2020). The progress of the current program has reached 100%.

Figure 4. Assistance in making promotional media for Bandrek Bu Nanik MSME banners in RW 03

Free Tutoring and Hospitality Activities

The Free Tutoring Program and hospitality activities with children and residents of RW 03 have been conducted weekly since the beginning of the KKL-PPM implementation, achieving 100% completion. This activity aims to increase the learning motivation of children in the RW 03 environment (Hidayat & Mansuryah, 2025; Ikromi et al., 2025) and to strengthen familial bonds between students and local residents.



Figure 5. Implementation of free tutoring and hospitality activities with children RW 03

Free Health Check

The free health check activity for RW 03 residents was carried out on August 7, 2026, achieving 100% completion. This activity is a form of student support for basic public health services, including blood pressure checks and

other simple health checks, as an effort to enable early detection of health problems and to raise public awareness of the importance of health.



Figure 6. Implementation of Free Health Checks (CKG) for residents of RW 03, Yosomulyo Village

Education on Stop Bullying and Promiscuity

The Stop Bullying and Promiscuity education activity was carried out on August 12, 2026 at SMK Aviation Merah Putih School with a total of 42 students, achieving 100% completion. This activity aims to increase students' understanding of the impact of bullying and the dangers of promiscuity, as well as to foster mutual respect, healthy peer relationships, and the courage to prevent and report bullying in the school environment (Putri, 2024). This education is important for creating a safe, comfortable, and conducive learning environment for all students.



Figure 7. Stop Bullying and Promiscuity Education at SMK Aviation Merah Putih School

Participation in the 81st Anniversary of the Republic of Indonesia and Routine Social Activities

To support the commemoration of the 81st Independence Day of the Republic of Indonesia, Group 20 students are actively participating, together with local committees and the community, in preparing and implementing a series of Independence Day events in RT 07, RT 08, and RT 09. This activity is still proceeding in stages until the peak of the celebration; accordingly, its achievement was recorded at 50% at the time this report was prepared. In addition, students regularly participate in various social and religious activities, such as environmental mutual cooperation, taklim (religious study) gatherings,

teaching at PAUD and the Al-Qur'an Education Park (TPA), assistance for PKK activities, and support for routine public health services, with an overall achievement of 100%. This involvement strengthens familial bonds between students and residents and supports the sustainability of community empowerment programs after the KKL-PPM period ends.



Figure 8. Student participation in the preparation of the 81st Indonesian Independence Day Commemoration in RW 03



Figure 9. Student participation in routine social and religious activities with RW 03 residents

Supporting and Inhibiting Factors

The success of the program implementation is supported by the involvement of various elements of society. The Yosomulyo Village Government and the management of RW 03 assisted with permits and access to regional data and provided activity locations. SDN 7 Metro Pusat and SMK Aviation Merah Putih School facilitated student participation by providing time, space, and student coordination. PAUD Rahmanda, PKK and Posyandu cadres, as well as the Indonesian Independence Day committee and community leaders also helped mobilize participants and carry out activities.

Several obstacles were encountered during implementation, including limited time and manpower for installing waste s and educational boards at all strategic points, the time-consuming design and printing of MSME banners, and the gradual pace of Independence Day activities, which followed the schedule of the local committee (Hasyim et al., 2025). These obstacles were addressed through intensive coordination with the Yosomulyo Village Government,

schools, PKK and Posyandu cadres, and community leaders, so that most programs could still be implemented according to target.

CONCLUSION

The implementation of KKL-PPM Group 20 in RW 03, Yosomulyo Village, Metro Pusat District, Metro City, has contributed to community empowerment in the environmental, health, educational, economic, and social fields through training, counseling, continuing education, and mentoring approaches. The outputs include waste points and waste decomposition education boards (100% completion); road signage installed in RT 07, RT 08, and RT 09 (100% completion); counseling on diarrhea prevention, handwashing, and saving for 30 students of SDN 7 Metro Pusat; promotional banner assistance for the Bandrek Bu Nanik MSME (100% completion); weekly free tutoring; free health checks for RW 03 residents; Stop Bullying and Promiscuity education for 42 students of SMK Aviation Merah Putih School; and active participation in the 81st Indonesian Independence Day Commemoration and routine social and religious activities. The success of the program is supported by the collaboration of the Yosomulyo Village Government, the management of RW 03, the school, PKK and Posyandu cadres, MSME actors, and community leaders.

Several recommendations for the sustainability of the program are as follows: (1) RW 03 administrators and residents are expected to continue installing and managing waste s and educational boards at locations where they have not yet been installed; (2) the Bandrek Bu Nanik MSME and other MSME actors are advised to continue using promotional media and to begin exploring simple digital marketing to expand market reach; (3) schools are expected to integrate handwashing, saving, and anti-bullying materials into routine school activities; (4) PKK and Posyandu cadres are advised to make free health checks a periodic activity; and (5) tutoring activities and social community activities that have been initiated should be continued by the youth organization or RW 03 cadres after the KKL-PPM Group 20 period ends, in order to sustain the impact of empowerment on the people of RW 03, Yosomulyo Village.

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