



CLEAN WATER PROJECT IN PENADARAN VILLAGE: COMMUNITY CARE

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Abstract

Penadaran Village is the largest village in the Gubug sub-district, Grobogan district, Central Java province. This village has problems related to the availability of clean water for daily activities, dry land, prolonged dry season, and uneven distribution of water. So far, the people of Penadaran village, Gubug sub-district, have only relied on Tuntang river water. Therefore, it is important to carry out community service activities to solve these problems. The solution given to ease the burden on the people of Penadaran village, Gubug sub-district, is to build a river water filter installation and clean water reservoir. The methods used in this activity include: coordinating with local communities, testing the water quality of the Tuntang river, building installations, socializing management, monitoring and motivating the people of Penadaran village, Gubug sub-district. This activity is very beneficial for the people of Penadaran village, Gubug sub-district, therefore this activity must continue to be carried out by making Penadaran village Gubug sub-district a fostered village for Dian Nuswantoro University. In addition, it is necessary to increase cooperation with related parties, government and private institutions.

Keywords: Clean water, community, Penadaran village.

I. INTRODUCTION

Grobogan Regency, Central Java Province consists of several sub-districts, one of the sub-districts in Grobogan district is Gubug sub-district. There are 21 villages, 61 hamlets, 105 RW, and 462 RT in the Gubug sub-district (bps.go.id, 2021), the following is a table of the gubug sub-district area of each village:



No.	Desa	Lahan Pertanian		Lahan Bukan Pertanian	Luas Wilayah
		Lahan Sawah	Lahan Bukan Sawah		
(1)	(2)	(3)	(4)	(5)	(6)
001	Penadaran	9.70	958.53	88.77	1 057
002	Gelapan	51.00	273.76	82.24	407
003	Ngroto	149.00	26.00	160.00	335
004	Ginggangtani	19.59	108.79	106.62	235
005	Jeketro	190.00	12.28	68.88	271
006	Saban	103.68	14.12	80.20	198
007	Mlilir	156.50	32.72	130.78	320
008	Kemiri	114.76	33.32	71.92	220
009	Papanrejo	90.00	59.00	79.00	228
010	Kunjeng	253.00	11.13	30.87	295
011	Trisari	164.15	23.44	89.42	277
012	Kuwaron	240.00	8.00	232.00	480
013	Rowosari	268.10	18.80	57.10	344
014	Gubug	200.27	15.21	186.53	402
015	Pranten	122.40	3.92	77.68	204
016	Jatipecaron	106.00	7.23	73.77	187
017	Baturagung	270.72	85.83	63.45	420
018	Tambakan	208.00	25.00	62.00	295
019	Ringinkidul	105.00	6.00	47.00	158
020	Ringinharjo	229.57	19.32	109.12	358
021	Tlogomulyo	262.02	26.79	131.25	420
Kec. Gubug		3 313	1 769	2 029	7 111
Kabupaten Grobogan		59 299	60 314	30 755	150 368

Sumber : Balai Penyuluhan Pertanian (BPP) Kecamatan Gubug

Figure 1. The area of the Gubug sub-district

Based on the table above, it can be seen that Penadaran village has the largest area compared to other villages in the Gubug sub-district. In addition, based on the population and civil registry office of Grobogan district in 2020, the population in Penadaran village is 4,976 people. Based on these data, this village was chosen as the object of service due to serious problems that must be overcome so that the community can live clean and healthy lives.

One of the problems in Penadaran village, Gubug sub-district, is the limited source of clean water in the village. The land in Penadaran village, Gubug sub-district, includes dry land, coupled with the occurrence of a prolonged dry season, making the people of Penadaran village in Gubug sub-district anxious to fulfill their need for clean water. In addition, the distribution of water is not evenly distributed among the people in the village. So far, to meet daily water needs in the context of bathing, washing clothes, defecating, and others, they only rely on water from the Tuntang river.

LOKASI





Figure 2. Location of Penadaran village, Gubug district

Based on the phenomena and data that have been explained, it is important to carry out service activities in order to ease the burden on the people of Penadaran village, Gubug sub-district in obtaining clean water.

Problem Solution

To help alleviate these problems, the service team developed several solutions to ease the burden on the people of Penadaran village, Gubug sub-district. The construction of river water filter installations and clean water reservoirs is one solution to ease the burden on the people of Penadaran village, Gubug sub-district, from the problem of limited clean water in the village. By building a river water filter installation, it is hoped that the Tuntang river water can be clean so that it can be accommodated in clean water reservoirs and the clean water can be distributed evenly to the people of Penadaran village, Gubug sub-district.

II. METHOD

The implementation method in this service program is divided into several stages, including:

1. Coordination with local communities.
2. Testing the water quality of the Tuntang river.
3. Build river water filter installations and clean water reservoirs.
4. Socialization of the management of river water filter installations and clean water reservoirs.
5. Monitor and direct the development of the use of water filter installations and clean water reservoirs for the community.
6. Provide motivation for the community

III. RESULT AND DISCUSSION

This activity is expected to provide benefits for the entire community of Penadaran village, Gubug sub-district. For the first time, this activity was initiated by coordinating with the local community. This coordination activity is used to explore existing problems and look for appropriate actions to solve these problems together with the community and students so that they will find benefits that are felt for the entire community and service team. The second activity is to test the water quality of the Tuntang river, the purpose of this activity is to test whether the water of the Tuntang river is still suitable for use or consumption for daily activities (bathing, washing clothes, defecating, etc.) by the local community.

After testing the Tuntang river water, the next activity is to build a river water filter installation and clean water reservoir. By building a river water filter installation, it is hoped that the Tuntang river water can be clean so that it can be accommodated in clean water reservoirs and the clean water can be consumed by the people of Pedanaran village, Gubug sub-district by distributing it evenly to the local community.





Figure 3. Activities in Penadaran village, Gubug sub-district

After the installation of river water filters and clean water reservoirs are available, the next activity is to monitor and direct the development of the utilization of community-managed water filter installations and clean water reservoirs. This monitoring is carried out by evaluating the results and providing guidance to the people of Penadaran village, Gubug sub-district. The last activity carried out was to provide motivation for the people of Penadaran village. This motivation is given to the community so that people understand and understand that clean water is a physiological need for society which is the first of the five needs described by Maslow (1943). The five needs include physiological needs, safety needs, love needs, esteem needs, and self-actualization (Maslow, 1943). . Physiological needs are the first needs that must be met by everyone. These physiological needs include clothing, food and housing (Maslow, 1943). Clean water is a part that must be available in the house, this shows that clean water is a physiological need that must be met by every human being.



IV. CONCLUSION

Conclusion

Clean water is one of the physiological needs that must be met by everyone. The people of Penadaran village, Gubug sub-district, have a problem with limited availability of clean water. Making water filter installations and clean water reservoirs is one of the solutions provided. Making Penadaran village, Gubug sub-district, as a target village for Dian Nuswantoro University is one form of the Tri Dharma of Higher Education that must be preserved because it will provide benefits to the community.

Suggestion

Making Penadaran village, Gubug sub-district, as a fostered village is one of the suggestions for community service activities. In addition, increasing cooperation with related agencies, government and private institutions is very much needed to be able to continue to run this program.

REFERENCES

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