



## ACADEMIA CARES: PUBLIC TOILETS FOR PENADARAN VILLAGE GUBUG GROBOGAN

### Authors:

Kusni Ingsih

Fakultas Ekonomi dan Bisnis, Universitas Dian Nuswantoro, Semarang, Indonesia.

Email : [kusni.ingsih@dsn.dinus.ac.id](mailto:kusni.ingsih@dsn.dinus.ac.id)

Ratih Pramitasari

Fakultas Kesehatan, Universitas Dian Nuswantoro, Semarang, Indonesia.

Berlian Totti Viala

Fakultas Kesehatan, Universitas Dian Nuswantoro, Semarang, Indonesia.

### **Abstract**

The object of community service is carried out in the village of Penadaran Gubug Grobogan. There are problems in the village, one of which is the lack of clean water so that the surrounding community uses the river for daily activities such as defecating, urinating and bathing. Therefore, the service team carries out community activities and provides solutions related to this. The solution given is to build a public toilet for the community around the village. Based on the results of an agreement with village officials and community members, a public toilet was made in the Kedungkakap hamlet so that it can be used and facilitated the residents of the surrounding community. In order to maintain that the public toilets can continue to be useful, the implementing team provides directions related to the maintenance and maintenance of public toilets so that their sustainability is longer. There are still other problems in the village, therefore it is important to carry out community service activities again in the village of Penadaran Gubug Grobogan because there are still problems related to the village environment and village facilities. In addition, the importance of cooperation with the government or the private sector to provide community facilities for the residents of Penadaran Gubug Grobogan village.

**Keywords:** public toilets, clean water, disease.

## **I. INTRODUCTION**

Water is one of the main elements on earth that is an integral part of all human beings. Living things cannot live if there is no water, so water is needed to maintain the survival of living things. The water we use every day such as drinking, cooking, bathing and others must be clean so that we can avoid diseases caused by poor water quality. By using clean water, we can avoid diseases such as diarrhea, cholera, dysentery, typhoid, intestinal worms, skin diseases and poisoning.

There is a village in Grobogan district, Purwodadi city which experiences a shortage of clean water during the dry season. The village is precisely located in the Gubug sub-district, namely Penadaran village. The location of the Gubug sub-district is 30 km from the city of Purwodadi. Penadaran Village has an area of 1,057 hectares, with a population of 4,976 people (Department of Population and Civil Registry of Grobogan Regency, 2020). The majority of the population in the village have low education, have a livelihood as farmers, traders and laborers.

When the dry season arrives, the villagers only rely on water flowing in the Tuntang river, which has a stable water discharge and never recedes. However, the water quality in the Tuntang river is not optimal. Local residents use Tuntang river water for activities such as bathing, defecating, urinating, and so on. Residents of the surrounding community pay less attention to the quality of the Tuntang river water and what impact it will have on them in the future if the water is not clean.

In fact, water is the primary need of every human being. This is in line with Maslow's theory of needs (1943) which states that in Maslow's hierarchy of needs (1943) physiological needs are basic needs that must be met by everyone. Physiological needs or commonly referred to as primary needs consist of eating, drinking, clothing and shelter. Water is a part that must be available in the residence because it is used in everyday life. This means that the availability of clean water is important for the daily life of every human being.



**Figure 1.** Location of Penadaran Village, Gubug District, Grobogan Regency

The above phenomenon illustrates that the village of Penadaran Gubug Grobogan has several problems that must be resolved in order to help the surrounding community. Therefore, it is important to carry out community service activities in the village.

### **Problem Solution**

The solution to the problem in the village is to build a public toilet located in Kedungkakap Hamlet. The construction is carried out in a community prayer room that does not yet have toilet facilities, besides that it is also strategically located and is often used for activities. The toilet that was built has a length of 1.5 meters; 1.5 meters wide and 2.5 meters high with a concrete roof and the water source for toilet operations comes from river water that has been filtered using a water filter that has been designed by the team, having the following equipment:

1. WC Goose neck amounted to 1
2. The water faucet is 1
3. The bucket of water is 1
4. Iron door is 1
5. Inside and outside lights are 1 . each
6. Access road to the bathroom is 4 meters long.

## **II. METHOD**



The following are some of the stages carried out in the implementation of the community service activity program, including:

1. Socialization with the local community related to the objectives of the activity.
2. Situation analysis, extracting information, compiling solutions offered to local communities regarding solutions to solve these problems.
3. Build public toilets.
4. Socialization of the existence of public toilets in the place.
5. Provide direction related to the maintenance and maintenance of public toilets.

### III. RESULT AND DISCUSSION

Based on the established method, the discussion in this article starts with the socialization of activities. The socialization of the activity was given to the people of Penadaran Gubug Grobogan village so that they know the purpose of this activity. The implementation team then carried out an analysis of the situation in the village. The situation analysis was carried out by digging as much information as possible from the villagers and making direct observations of the village. After the implementation team found out about the problems that occurred in the village, the implementing team devised the right solution to solve the problem. The implementation team then offered the solution that had been prepared to the local community.

Based on the approval of the local community for the proposed solution, the next step is for the implementing team to build a public toilet for the villagers because it is very important and urgent to use. The toilet construction process requires discussion with village officials and the village community regarding the location where the public toilets will be built. After finding an agreement with village officials and villagers, the process of building public toilets is carried out in a short time. In the end, the implementation team was able to build a public toilet in a predetermined location, so the next step was to socialize the public toilet to local villagers so that these public facilities can be used by all residents of Penadaran Gubug Grobogan village. In order to maintain that the public toilets can continue to be useful, the implementing team provides directions related to the maintenance and maintenance of public toilets so that their sustainability is longer.





**Figure 2.** Public Toilet Construction Activities

Maintenance and maintenance are activities or efforts made to improve, maintain, and return equipment always in a condition that is ready to use and functioning properly. With regard to facilities and infrastructure. Maintenance is intended as a preventive or preventive effort so that facilities and infrastructure are not damaged and are maintained. In addition, maintenance is also intended as an effort to calibrate, adjust, adjust or repair equipment, facilities and infrastructure that have already been damaged so that they are ready to be used again. Congestion of facilities and infrastructure will cause huge losses for the organization. Maintenance and maintenance activities of facilities and infrastructure require good planning so that the results obtained are also good. Planning for maintenance activities can be made based on a certain time period, either daily, weekly, monthly or yearly. In planning usually written goals or targets to be achieved in the work.

The benefits that can be obtained can be in the form of direct benefits or indirect benefits including the following:

1. reduce the occurrence of facilities and infrastructure experiencing breakdown or stopping operations;
2. asset conservation is getting better;
3. increasing the expectation of equipment and component life so as to reduce premature replacement of spare parts or spare parts for facilities and infrastructure;
4. reduce maintenance and maintenance costs;
5. maintain the stability of the results with good quality.

How to manage and maintain public toilets to keep them clean are as follows:



### 1. Provide sanitation facilities

In this bathroom, there are sanitation facilities so that users can maintain the cleanliness of the user and the comfort of the toilet user. Among them is a hand washing area which is equipped with hand soap. which aims when the user is finished using the bathroom, they can wash their hands first with soap to keep their hands clean.

### 2. Regularly cleaning public toilets

Routinely cleaning the toilet every day has the advantage of prevention so that there are no stains attached to public toilets because if they are stained, it will be increasingly difficult to clean. You can use a special toilet and floor cleaning solution to clean the toilet area as well as in the toilet and handwashing pits so that there are no dirt deposits that can cause stain lines that are difficult to clean.

### 3. Immediately fix the toilet if it is clogged or there is a leak

A clogged toilet if not addressed immediately will cause the water in the toilet that has been mixed with all kinds of human waste to overflow and can become a source of disease, besides that it can also cause unpleasant odors and disturb other toilet users. Overcoming a clogged toilet or if there is a leak can be overcome by immediately calling professional services if you do not know how, using chemicals that are specially made for this and it is better if the public toilet is temporarily closed so that it is not used first.

## IV. CONCLUSION

### Conclusion

Public toilets with sufficient sources of clean water that can be used by all villagers are the best solution to the problems in Penadaran Gubug Grobogan village. This service program activity hopes that the residents of Penadaran Gubug Grobogan village are able to carry out sustainable management of the facilities that have been built.

### Suggestion

The suggestion from this activity is that it is important to carry out community service activities again in the village of Penadaran Gubug Grobogan because there are still problems related to the village environment and village facilities. In addition, the importance of cooperation with the government or the private sector to provide community facilities for the residents of Penadaran Gubug Grobogan village.

## REFERENCES

Maslow, A. H. (1943). [A theory of human motivation](#). *Psychological review*, Vol. 50 (4), 370-96.

dinas kependudukan dan catatan sipil kabupaten Grobogan, 2020.

[bps.go.id](http://bps.go.id)