The effectiveness of the Implementation of the Program 3R (Reduce, Reuse, Recycle) In Waste Treatment in Kalidoni District Palembang City

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ABSTRACT

The purpose of this study is to investigate and analyze the effectiveness of the Implementation of the Program 3R (*reduce, reuse, recycle*) in waste processing. This study was conducted in Kalidoni District the City of Palembang. Research using this approach kualitatif with the level of explanation descriptive. As for the type of data used in this research included in this type of qualitative data. Data collection techniques used include in-depth interviews (*indepth interview*), observation and documentation. The data analysis technique used in this research is a descriptive technique which includes three stages of analysis, namely *data reduction, data display and conclusion drawing/verification*. From the research conducted, the processing of garbage through the program 3R proclaimed by the District Kalidoni've been running effectively, it can be seen from the indicators of the effectiveness obtained by the researchers that the Level of Success of the Program, the Success Rate of the Target, the Level of satisfaction with the Program, the Level of *Input and Output*, and the Level of Achievement of the Objectives.

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1. Introduction

In 2015, there is Regional Regulation of Palembang City No. 03 of the Year 2015 on the Management of Household Waste and Waste Similar to Household. Based on data from the Department of the Environment and the Cleanliness of the City Was, that of household waste per day from 1400ton that can be transported only 900 tons, and about 70% of the production waste generated from household waste. The solution should be promoted by the government, namely by the application Program 3R (*reduce, reuse, recycle*) and form TPS3R and know landfills integrated (TPST). So the Issue of household waste and garbage of the like felt more complex, because awareness is still very low, about waste reduction from the source.

In helping to create the program of the government of the City of Palembang which is directly to the right target, In the year 2017 Kalidoni District when it made a breakthrough by forming a Unit (SATKER) Kalidoni District managed 100% by the community. One of the programs carried out on Kalidoni District with SATKER Kalidoni that build TPS3R, Waste Bank. Precisely in the Village Kalidoni where there the Place of Disposal While (TPS) who are aged dozens of years, TPS is already cause diseases and unpleasant smell for the surrounding communities. So, the beginning of the year 2018 Head Kalidoni the City of Palembang with the surrounding community, to make a breakthrough by changing the Place of Disposal While (TPS) became the place of installation of the 3R processing of garbage, because

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garbage handling in self-management is needed to improve the participation of the community to care about the garbage problem. So that is a formulation of the problem in this research is already effective program implementation of 3R in waste treatment in Kalidoni District the City of Palembang.

2. Theory

According to Gibson et.al in Bungkaes (2013:46) asserts that effectiveness is the assessment made with respect to the achievements of individuals, groups and organizations. The closer their achievements against the achievements of the expected "standard" then they are considered more effective. Williams (in Wahab, 2015:61) say that the effectiveness of the implementation of the program related to the implementation capacity of the actors shall (policy makers) is the ability to carry out the policy in such a way that there is assurance that the goals and objectives that have been specified in the contents of the policy can be achieved.

To be able to know how the effectiveness of the implementation of the program of 3RS in waste treatment in Kalidoni District the City of Palembang, the researchers set the indicators of effectiveness that refer to the theory put forward by Campbell J. P (1989:121) translation, the effectiveness can be measured in general by the following indicators:

- a. Measured through the level of success of the program is carried on. The effectiveness of the program can be executed with capability of operating in carrying out the program-the work program in accordance with predetermined objectives. The success of the program can be review of the process and the mechanism of an activity carried out in the field.
- b. In the measure based on the level of success of the target that you want to go to. Effectiveness in terms of achievement of objectives by focusing attention on aspects of output, meaning that the effectiveness can be measured by how far the level of output in the policy and procedures of the organization to achieve the goals that have been set.
- c. In the measure based on the level of satisfaction with a program is implemented. Satisfaction is the criterion of effectiveness refers to the success of the program in meeting the needs of the user. The satisfaction felt by the user against the quality of the products or services produced. The quality of the products and services provided then the satisfaction perceived by the users increasingly high, it can cause advantages for the institution
- d. In the measurement based on the levels of inputs and output exists. On the effectiveness of the input and output level can be seen from the comparison between the input (input) with output (output). If the output is greater than input, then it can be said to be efficient and vice versa if the input is greater than output then it can be said to be inefficient.
- e. In the measure based on levels of achievement of the overarching goal of the gain. The extent of the organization to carry out their duties to achieve the goal. In this case it is the general assessment with as much as possible of a single criterion and produce a general assessment of the effectiveness of the organization.

So the effectiveness of the program can be run based on the ability of its operations in carrying out the program in accordance with the objectives that have been set earlier, in a comprehensive manner, the effectiveness can be interpreted as the level of ability of an institution to achieve the goals or objectives that have been ditentukan previously (Campbell, 1989:47).

Waste management in the Act No. 18 Year 2008 on Waste Management, is the activity a systematic, thorough, and continuous which includes the reduction and handling of waste. Waste management aims to improve the health of the community and the quality of the environment as well as make the waste of economic value. Waste reduction can be done through the restriction of waste generation (*reduce*), reuse waste (*reuse*) and recycling waste (*recycle*).

3. Research Method

This research type is research qualitative research is used to test the condition of the object where the researcher is the key instrument. Based on the type of data and analysis, this study describes the qualitative descriptive, aiming to describe and analyze the effectiveness of program implementation of 3R in waste processing, which adopts the Theory of Campbell J.P. in Mutiarin (2014) measuring effectiveness in general is First, the Rate of success of the program, Both the Success Rate of the target, the Third Level of Satisfaction with the program, the Fourth Level of inputs and outputs, a Fifth Level of Achievement of the purposes for which acquired.

Data collection techniques used include in-depth interviews (*indepth interview*), observation and documentation. Informants in this study include: Head of Kalidoni District, Head of Kalidoni District Work Unit, TPS Officer 3R Kalidoni District, Kalidoni District Community.

Data sources were obtained at TPS 3R, Kalidoni District Office, Kalidoni District Work Unit Office

which functions as a place for learning, as well as monitoring activities, providing facilities 3R program policy. Documentation relevant to the research problem is Act Number 18 of 2008 concerning Waste Management, Regional Regulation of Palembang City Number 3 of 2015 concerning Management of Household Waste and Household-like Waste, guidelines concerning implementation of the supervised 3R Program, reports implementation of activities and other documents considered important in this study. The data analysis technique used in this research is a descriptive technique which includes three stages of analysis, namely *data reduction*, *data display* and *conclusion drawing/verification*.

4. Results

4.1. The level of success of the program

The success of the program 3R in the processing of waste in Kalidoni District of Palembang City can be seen from the ability and willingness of the personnel committee, as well as facilities and infrastructure are available. The program of Kalidoni District build and run the program the 3R in waste treatment has been successful. The indicators of success, namely building the installation location of the 3R or TPS3R. Of 3R activities that are in TPS3R District Kalidoni have produce Organic Fertilizer from vegetable waste, Maggot comes from the waste of fruits, Fuel Oil such as diesel and kerosene from the results of shredded plastic. Kalidoni District with SATKER Kalidoni District have been successful in empowering the community in this case the mother of the household to build garbage banks. With the activities of this garbage bank has been utilizing plastic waste that has been collected so as to be a useful item. No responsibility-responsibility Kalidoni District also create business units that are managed directly by the community. This is the measure of the success of the implementation of the program of 3RS in waste treatment in Kalidoni District the City of Palembang.

4.2. The success rate of the target

Each program has a target and the target to be achieved. Thus, with the Program of 3RS in waste treatment in Kalidoni District have a target to be achieved, namely the sorting of waste with the 3R and community empowerment. With the installation of the Program the 3R in waste processing, open jobs as officers waste hauler, waste sorting organic and non-organic, processing waste, as well as provide additional income for residents who have been sorting their own waste before being transported to the installation location of the 3R.

The results of the research in the field indicates that the target program 3R in the processing of waste in Kalidoni District the City of Palembang has not been effective. Proven with still at least Waste Bank 3R is formed by housewives in each village in Kalidoni District the City of Palembang. With the existence of waste banks can reduce the piles of garbage in every home one of them plastic waste and can also enhance community empowerment in the craft of plastic waste. These activities can provide additional income for residents in the District Kalidoni.

From the results also there are still residents in Kalidoni District are yet to sort out the garbage before it is thrown away. So it is difficult for officers to sort out the garbage that was brought to the POLLING station 3R. Thus Kalidoni District need to improve socialization and motivation to the citizens to change the *mindset* of society towards value than the waste itself as well as asking the public to participate and implement the program 3R (*Reduce, Reuse, Recycle*) in waste processing.

4.3. Level of satisfaction with the program

Satisfaction with the program the 3R in waste-to measure the effectiveness of its implementation in Kalidoni District the City of Palembang. Satisfaction is felt by the Government of the City of Palembang who directly feel tangible results of the program in this case is the community and the Districts Kalidoni.

Based on the results of research in the field, the response of the people of Kalidoni District are very happy with the policies made by Kalidoni District the City of Palembang. Mother Femi one of the residents in the Lrg. Sinta Village Kalidoni, Kalidoni District feel happy and satisfied with the TPS3R this, because it has been produce organic fertilizer great for plants at his home. In addition, with the implementation of the program of 3R have also helped create jobs.

The results of the research explain the satisfaction of the program implementation of 3R in waste processing is not only felt by the people of the District Kalidoni, but rather the satisfaction that is felt by the Government of the City of Palembang. As Palembang city major said:

“Very creative, this is a breakthrough that is incredible, should continue to be developed, moreover, we see in addition to make the environment clean, installation 3 R is very useful for local residents, can create jobs for them” Said Harnojoyo.

The mayor of Palembang, Mr. Harnojoyo make Kalidoni District as a *pilot project* for the implementation of the 3R in waste processing, so it

can be followed by the District and other residents in the city of Palembang.

The results also show that the cooperation shown by Kalidoni District with SATKER Kalidoni and the community implement a program of 3R in waste processing indicates the success of the program. The success of local government programs will run better if put the community as the main factor of development.

4.4. *The input and output level*

The input and output level is one indicator to assess the effectiveness of a program. The lack of input causes the program to not run effectively, so that the achievement of the program's output to be low. On the implementation of the 3RS in waste treatment in Kalidoni District the City of Palembang, the input is in the form of proposals from the community and administrators of the program 3R related needs the allocation of funds in the implementation of development programs for the processing of waste 3RS as the facilities and infrastructure needed as well as the amount of deposit waste from the community to be processed. While the output of the Program the 3R in waste processing is the number of realizations of the program of the proposal submitted by the community.

The results of the research in the field show already effectively seen from the proposed Construction of TPS3R of the community in the Village of Kalidoni In the Subdistrict of Kalidoni to the Place of Disposal While (TPS) that was the location filled with piles of garbage wild, the stench that stung, already approved and realized to 100%. The construction of the installation of waste 3R is the achievement gained from the Implementation of the Program of 3RS in waste treatment in Kalidoni District with the community as the subject of development.

With its success, then Kalidoni District together with the Government of Palembang City and the community in 3 Villages in the District Kalidoni, have built the Location of waste Processing 3R. As Kelurahan Bukit Sangkal, Sei Selayur and Sei agile as. Where facilities and infrastructure already available it's just not effective. In the year 2020, the Program activities are still suspended until next year due to the limited conditions in the pandemic Covid19.

4.5. *The level of achievement of the purpose*

Policy Program Implementation of 3R in Waste Processing is a policy made by the Local Government of the City of Palembang. Among the objective of this policy is to reduce the number and impact caused by the garbage and make garbage as a resource. The

achievement of the objectives of the Implementation of the Program of 3RS in waste treatment in Kalidoni District the City of Palembang is a significant change seen from the realization of the process of governance in the District of Kalidoni, and the realization of the living environment healthy and clean. As the following explanation:

The process of implementation at the District Level is an indicator of the effectiveness of the achievement of the goals as a whole through various activities. The bureaucracy of Kalidoni District are running better reflect governance in accordance with applicable regulations.

The success of the Head of the Subdistrict of Kalidoni in the year 2017 when it is forming a Working Unit (SATKER) which is not owned by the district in the City of Palembang. The SATKER is called SATKER Sub Kalidoni. In the organizational structure of the SATKER no employee of the district but everything comes from all elements of society in the District of Kalidoni. The virtue of the establishment of the Working Unit, the Head of Kalidoni District entrust direct all activities of the direct appointment (PL) for community development in work units. So with the SATKER can help the Village and Kalidoni District realize the government program of direct and right on target. In addition to the construction and physical presence of the SATKER there is also a program work such as the construction of community empowerment. Through the space education in the location TPS3R Kalidoni District this was to be a meeting place, a counseling related Program 3R to the community. Development activities of community empowerment in the form of Waste Bank on RT 14 Village of Kalidoni in the sub-Kalidoni District Palembang. It can be seen from the documentation taken by researchers when conducting field observations. The ability of Kalidoni Districts along with the community to implement the program of 3RS in waste treatment and can be an opportunity to increase the income of people in the District Kalidoni.

From the results of the research explain that the realization of the process of governance in Kalidoni District as the success of the performance is the establishment of the cooperation of the bureaucracy that is effective, efficient and dynamic in the ranks of government at the district level that can be an example for other districts in the City of Palembang.

The location where the construction TPS3R is the land belongs to the Army. Formerly a Place of Disposal While (TPS) garbage-garbage wild accumulate, causing odor and interfere with the health of residents who live around the to be unhealthy.

The results showed that with the initiative and willingness of the Head of the Subdistrict of Kalidoni in the City of Palembang with the community Kalidoni in mutual cooperation to build TPS3R. With the presence of TPS 3R this, the realization of a healthy environment and clean have been perceived as real by the community around the site. Earlier every day citizens around never open the windows and doors of the house, but after the TPS3R this the citizens had dared to open the window and the door of his house.

The effectiveness of the implementation of the program of 3RS in waste treatment in Kalidoni District the City Was based on the results of research with five indicators of effectiveness that has been said by Campbell JP (1989:47). Of the five indicators, four of them run effectively, namely the level of success of the program, the level of satisfaction of the program, the input and output level and the level of achievement of objectives, while one indicator, namely the level of success target has not been effective. Based on that description, the effectiveness of the program implementation of 3R in the process of garbage in the District of the City of Palembang has been running effectively.

5. Discussion and conclusion

Based on the results of research and discussion about the Effectiveness of the implementation of the program of 3RS in waste treatment in Kalidoni District the City of Palembang has been done, then the researcher can give the conclusion as follows.

First, based on the dimensions of the level of success of the program, the results showed the quality of the executive officers on the implementation of the 3RS in waste treatment in Kalidoni District the City Was very good. Availability of facilities and infrastructure as well as supporting the implementation of the program of 3R in waste processing. So that the activities are running effectively.

Second, the success rate of the target, the target becomes the focus of the Program Implementation of 3R in waste processing is the sorting of waste with the 3R by citizens and community empowerment. The results of the research in the field shows that the target of the second program has not been effective. There are still many people who do not sort out waste at home each before being discharged with the officers of the waste hauler. One of the programs of community empowerment that form the waste banks are still a little.

Third, the level of Satisfaction of Program 3R in the processing of waste in Kalidoni District the City Was already effective and the perceived benefits by the local community and the City government of

Palembang. The facts on the ground said the city government of Palembang, stakeholders, officials of Village and District Kalidoni, the community around giving a very positive response to the Implementation of the 3RS in waste treatment in the District Kalidoni.

Fourth, the level of the input and output of the program run well and have been effective. Where proposals from the public, especially in the Village Kalidoni, Kalidoni District the City Was related to changing the Place of disposal while (TPS) when it is already full with a pile of garbage wild and those of the middle settlements of the citizens has been realized by the sub-District Kalidoni, with the construction of the place of installation 3R or TPS3R. Likewise on the 3 (three) Villages in Kalidoni District i.e. Kelurahan Bukit Sangkal, Kelurahan Sei Selayur and Kelurahan Sei agile as. Only in the year 2020, the Program activities are still suspended until next year due to the limited conditions in the pandemic Covid19

Fifth, the level of Achievement of Objectives, based on the research achievement of the goal of the Program 3R in the processing of waste in Kalidoni District the City of Palembang is running effectively. The process of governance in the District Kalidoni, and the realization of a healthy environment and clean runs very good.

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