The environmental care level of junior high school students in surakarta

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Abstract. Adiwiyata School is a place that facilitate the students to elevate their awareness dealing with the importance of taking care of the environment. The purpose of this research is to find out the implementation of Adiwiyata School and the students’ environmental care attitude on Adiwiyata State Junior High Schools (SJHS / SMPN) in Surakarta. The technique of the sample collecting employs Stratified Technique random sampling to determine the sample which is being examined, random sampling for teacher sample and staff also sampling quota for the students. The techniques of collecting data are field observation, questionnaire, interview, and documentation. The result of the research shows that the implementation of Adiwiyata School at SJHS 1, 7 and 11 in Surakarta is categorized as excellent. The students’ environmental care towards Adiwiyata School, which is seen from the result of the calculation, shows that the mean percentage is categorized as excellent.

1. Introduction
The environmental problem is one of the complex problems that are faced by many nations. [5] Stated that the academicians and international relationship practitioner begins to put the environmental issue on the issues research that are being examined by them. The environmental issue that has been widely exposed triggers Indonesian citizen to prevent the harm impact which is caused by the environmental damage [10][11].

For that reason, there are many people are trying to preserve the sustainability of the environment. According to [1][4] Environmental Education (PLH) is environmental based education in the context of direct or indirectly internalization in forming independent personality also the behavior and mindset of the students/ college students/ training participants so that they can implement in their daily life.

[9] Explained that environmental knowledge is someone’s basic knowledge about something that can be done to protect the environment. [3][12] Stated that environmental knowledge is about series of ecological knowledge that is possessed by individual. [6] Stated that environmental knowledge is a precondition and important component to form any attitude towards the environment. [8] Explained that the attitude towards the environment is used as an individual consideration about the value of the environmental protection.

One of the means to preserve the environmental sustainability that is conducted in the school environment is called Adiwiyata program. Adiwiyata program is one of co-operation program between Ministry of Environment and Forestry and Ministry of Education and Culture in order to promote the realization of the school components’ knowledge and awareness in order to preserve the suitability of the environment.

Based on the Ministry of Environment and Forestry regulation No. 02 / 2009 about the Guidelines of Adiwiyata Program Implementation, the word Adiwiyata comes from two
Sansekerta words “Adi” and “Wiyata”. Adi means: big, noble, ideal or perfect. Wiyata means: place where someone gain knowledge, norms and ethics in social life [7].

If both of the words are combined, as a whole Adiwiyata means: A best and ideal place where someone can gain any knowledge and norms also ethics that can be the basic knowledge of human to meet the realization of our prosperous life and focus on the continuity of the dream development.

The purpose of Adiwiyata program is to create good condition in school to meet the criteria of learning area and a place to elevate the school components’ awareness, So that in the future, all of the school components can actively take the responsibility in the actions to save the environment and the continual development. The main activity of Adiwiyata program is to develop the school organization which is care and environmental cultured for elementary and high school in Indonesia.

In Surakarta, there are some schools that have implemented Adiwiyata program such as SJHS 1 Surakarta, SJHS 7 Surakarta and SJHS 11 Surakarta. Amongst all, SJHS 1 Surakarta is the pioneer of the Adiwiyata program in Surakarta.

The purpose of this research is the answer or objective that the researcher wants to achieve in a research. For that reasons, the purpose of this research are: (1) to find out the form of Adiwiyata school implementation on State Junior High Schools (SJHS / SMPN) in Surakarta (2) to find out the level of the students’ environmental care attitude towards Adiwiyata program on State Junior High Schools (SJHS / SMPN) in Surakarta.

2. Methods
This research is conducted at SJHS 1 (national level Adiwiyata), SJHS 7 Surakarta (province level Adiwiyata) and SJHS 11 Surakarta (city level Adiwiyata) have implemented Adiwiyata program which is appropriate with the level. This research uses descriptive quantitative method [14].

In this research there are two kinds of data source which are primary and secondary data. The population of the research uses homogeneous population [13]. The sampling that is used is stratified random sampling to determine the school location which is being examined, random sampling for the teacher, staff and quota sampling for the students by means of quota sampling the sample are 96 students that is calculated by using Slovin formula.

The technique of collecting the data uses field observation, documentation, interview and questionnaire. In this research the researcher uses questionnaire and interview methods. The technique of the data analysis on the form of Adiwiyata school program implementation by means of interview and distributed the questionnaire to four components in the Adiwiyata school headmaster, teachers and the staff.

| No | Indicator | Score |
|----|-----------|-------|
| 1. | Environment Based Regulations | 30 |
| 2. | The Implementation of Environmental Based Curriculum | 30 |
| 3. | Participative Based Environmental Activity | 30 |
| 4. | The Management of Environmental-Friendly Facilities | 30 |

Source: The Guidelines of Adiwayata Care and Environmental Cultured School 2011.
The students’ environmental care attitude by means of questionnaire which contains the presence of Adiwiyata indicators in the school then it is examined by using Likert scale.

| No  | Indicator                                                                 | Score |
|-----|---------------------------------------------------------------------------|-------|
| 1.  | Obsessed with the environmental neatness and cleanliness                   | 30    |
| 2.  | Be wise toward garbage and waste                                          | 30    |
| 3.  | Support greening activity                                                 | 30    |
| 4.  | Actively participate to reduce air pollution                              | 30    |
| 5.  | Be wise in using water and energy                                         | 30    |

*Source: The Guidelines of Adiwayata Care and Environmental Cultured School 2011.*

### 3. Results And Discussion

#### 3.1 The Implementation of Adiwiyata School

Refers to the result of the interview between the researcher and the headmaster, teachers, and staff at SJHS 1 Surakarta, SJHS 7 Surakarta, and SJHS 11 Surakarta the result is that the implementation of Adiwiyata School on each level in those schools is categorized excellent. The implementation of Adiwiyata School already meets the standard, whether the standard of Adiwiyata in national, province or city level, those three schools have implemented the Adiwiyata program well. This condition can be clearly seen on the vision and mission in each school which aim at environmental care, the presence of environmental based school regulation such as be wise in using energy, the integrated organic garbage management etc. The development of environmental and culture based learning have already implemented on each school. The curriculum is already being implemented in the environment based learning. There are also some developmental activities that focus on the supporting facilities in environmental based learning such as green house, TOGA (herbs or medical plants), biopori etc.

Thus, it can be measured by using the result of the questionnaire calculation on the implementation of Adiwiyata School.

| No  | Indicator                                                                 | SJHS 1 | SJHS 7 | SJHS 11 |
|-----|---------------------------------------------------------------------------|--------|--------|---------|
|     |                                                                           | Ska    | Ska    | Ska     |
| 1.  | Environment Based Regulations                                             | 180    | 180    | 179     |
| 2.  | The Implementation of Environmental Based Curriculum                      | 179    | 179    | 178     |
| 3.  | Participative Based Environmental Activity                                | 179    | 177    | 177     |
| 4.  | The Management of Environmental - Friendly Facilities.                   | 176    | 176    | 175     |

| Total | SJHS 1 | SJHS 7 | SJHS 11 |
|-------|--------|--------|---------|
|       | 714    | 712    | 709     |

| Percentage (%) | SJHS 1 | SJHS 7 | SJHS 11 |
|----------------|--------|--------|---------|
| 99.7%          | 98.8%  | 98.47% |

| Category   |        |
|------------|--------|
|            | Excellent |
At SJHS 1 Surakarta the percentage is 99, 72%, SJHS 7 98, 89%, SJHS 11 Surakarta 98, 47% that are categorized as excellent and already meet the Adiwiyata procedure and it is well-implemented.

3.2 The Students’ Environmental Care Attitude

Based on the calculation of the questionnaire which is distributed to all of 108 students that consist of 42 students from SJHS 1 Surakarta, 38 students from SJHS 7 Surakarta, and 28 students from SJHS 11 Surakarta, the result of the environmental care attitude on each school can be seen as follows:

Table 4. The Result of Environmental Care Attitude Assessment

| No | Indicator                                      | SJHS 1 | SJHS 7 | SJHS 11 |
|----|-----------------------------------------------|--------|--------|---------|
| 1  | Obsessed with the environmental neatness and cleanliness | 1109   | 1019   | 748     |
| 2  | Be wise towards garbage and waste             | 1108   | 1017   | 747     |
| 3  | Support greening activity                     | 1109   | 1018   | 749     |
| 4  | Actively participate to reduce air pollution  | 1108   | 1016   | 743     |
| 5  | Be wise in using water and energy             | 1109   | 1016   | 747     |
|    | Total                                         | 4434   | 4070   | 2987    |
|    | Percentage (%)                                | 99.8%  | 99.7%  | 99.5%   |
|    | Category                                      | Extremely Care |

The percentage of the students’ environmental care attitude at SJHS 1 Surakarta is 99.86%, SJHS 7 Surakarta 99.75% and SJHS 11 Surakarta 99.57%, so it can be concluded that the environmental care attitude on those 3 schools are considered as extremely care.

4. Conclusion

The conclusion of this research is the form of Adiwiyata school implementation in State Junior High Schools (SJHS / SMPN) in Surakarta and the environmental care attitude are categorized excellent.

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