STUDY ON SOLID WASTE MANAGEMENT IN BUBUTAN DISTRICT, SURABAYA CITY

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Abstract

The government of Surabaya City have made a collaboration with Unilever Peduli Indonesia foundation to implementation annual program, called Surabaya Green and Clean (SGC). This program is intended to make the residential area in Surabaya City to become green and getting free from solid waste problem. The study area was Bubutan district, which consisted of five subdistricts. Three of five subdistricts were participated in SGC program. This study was aimed to evaluate the solid waste management in Bubutan District.

Sampling activities and measurements of solid waste generation, density and composition was done eight times following the standard methods as described in SNI 19-3964 1995. This sampling was done at seventy houses in residential area which participated SGC program (Gundih Subdistrict) and seventy houses in residential area which has not participated the SGC program yet (Bubutan Subdistrict). The measurement of social perception of SGC and solid waste management was done through questionnaires and interviewing seventy respondents in two residential area.

Result of this study showed the solid waste generation in residential area which participated the SGC program is 0.28 kg/person.day or 1.67 L/person.day, the density is 168.66 kg/m³, the composition of garbage 52%, rubbish 41%, others 7%.
Potention of reduction solid waste which has done in this residential area is up to 67%. Solid waste generation in residential area which has not participated SGC program yet is 0.35 kg/person.day or 2.37 L/person.day, the density is 146.98 kg/m$^3$, solid waste composition of garbage 51%, rubbish 44%, others 5%. Planning of potention reduction planning during five years are, 15% in 2011, 30% in 2012, 45% in 2013, 60% in 2014 and 67% in 2015.

The recommendation of solid waste management for the residential area which has not participated SGC program yet is suggested to do sorting solid waste in every house, generate the sorted waste in sorted bin, recycling solid waste and collecting residual solid waste into transfer station.

**Keywords:** SGC, Bubutan District, Solid Waste Management