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BEST PRACTICE

Household Solid waste Processing Model Program

Community-based Solid waste Management in Balikpapan

Learning the process of community-based solid waste management



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Community members of Telagasari and Prapatan Dalam in Balikpapan are making handicrafts from recycled paper.

CHALLENGE Peduli Foundation once carried out “City Park Assessment” around Telagasari and Prapatan Dalam villages, Balikpapan to find potentiality of a city park. The assessment resulted in several findings in both neighborhoods; among others were disposal of garbage in gutters, ditches and empty piece of land in Telagasari village. The local Sanitation Department did not provide their services to this area, therefore increasing piles of garbage that produce unpleasant smells and spoil the view of the surrounding area.

After the assessment, Peduli Foundation approached the community leaders of RT 01 Telagasari village to further learn about waste management problems in the area. During the approach, Peduli Foundation was invited to attend “Training on Household Solid Waste Management” in Banjarsari, Jakarta organized by the Agency for the Assessment of Application of Technology (*Badan Pengkajian dan Penerapan Teknologi - BPPT*) in Jakarta. Peduli Foundation asked Mrs. Titin as a community member of RT 01 (*rukun tetangga* – neighborhood unit) to attend the training, which eventually inspired both Mrs. Titin and Peduli Foundation to improve solid waste management in Telagasari village.

INITIATIVE Peduli Foundation tried to search for funding and material back up from external parties by making activity proposals submitted to governmental institutions as well as big companies, such as UNOCAL. UNOCAL responded by asking Peduli Foundation to find another location with different criteria from the proposed one. Located just across RT 01 Telagasari, RT 36 Prapatan Dalam village was chosen as the second location because it is located nearby and the residents have better wellbeing compared to the proposed location. Peduli Foundation approached Mrs. Netty, a community member of RT 36, who was interested in the Foundation’s activity.

UNOCAL supports this activity by providing five units of garbage bins for RT 01 Telagasari village and six other units for RT 36 Prapatan Dalam village and funds to pay garbage collectors and other field workers in the project location. UNOCAL donated as much as Rp. 65 millions in several phases until September 2005, while Peduli Foundation contributed an amount of Rp. 25 million to cover the rest of the expenses needed.

Peduli Foundation approached the community intensively through community discussions once every three months, as well as board meeting of neighborhood unit (*Rukun Tetangga* – RT) and monthly meeting of Family Welfare Movement (*Pendidikan Kesejahteraan*

Keluarga – PKK). Eventually, the community agreed to manage the solid waste by sorting them from the household level as the source of the waste. The sorting was done by residents using two different garbage bins, one for wet waste and the other for dry waste. The wet waste will be turned into compost, while the dry waste will be recycled, and the rest will be brought to the nearest temporary disposal site (*Tempat Pembuangan Sementara - TPS*). In addition, the neighborhoods also received garbage carts from the local Sanitation Department and field supervisors were assigned to deal with garbage pick up. Another important result of the discussion was “KANCIL” (“KANtor keCIL” – small office), a place to meet and to sort the waste and recycle it into various handicrafts.

RESULTS In ten months, 60 percent of residents in RT 01 Telagasari village and 50 percent of residents in RT 36 Prapatan Dalam village conducted solid waste management activities without any pressure from Peduli Foundation. Technical assistance provided by Peduli Foundation to sort and manage waste ran smoothly. In fact this activity drew great interest from a large number of residents, although not all of them eventually practiced waste sorting and management at home. Peduli Foundation realized that introducing solid waste sorting and management to wider society required ample of time and efforts. The initial assistance schedule of four times a week was reduced to two times a week, so that the community can continue the efforts by themselves. “KANCIL” as a meeting place facilitated this process.

In order to promote the solid waste sorting and management activity to wider public, Peduli Foundation and the community members invited the wife of Balikpapan Mayor to visit and establish the villages of Telagasari and Prapatan Dalam as model areas of “Household Solid waste Management Model Program” (*Program Percontohan Pengolahan Sampah Rumah Tangga – P2SRT*) in Balikpapan. Peduli Foundation and the community of both villages also welcome other guests to visit their neighborhoods and to buy recycled handicrafts. Sustainability of these community activities depends on standard operational procedures of household waste management, as well as improved administration of garbage disposal and pick-up schedules, location of garbage bins and compost management from the beginning until the end.

“Koperasi Kemuning” is a cooperative institution established by the community members with the support of Peduli Foundation. It is a first step in community-based project and fund management to sustain waste sorting and management activities in the future, with the goal to reduce the garbage volume and longer final disposal site (*Tempat Pembuangan Akhir - TPA*) life span.