Study on Formation of Project on Materials Recycling of Plastic Shopping Bags and Other Flexible Plastic Waste in Metro Cebu Area, Philippines

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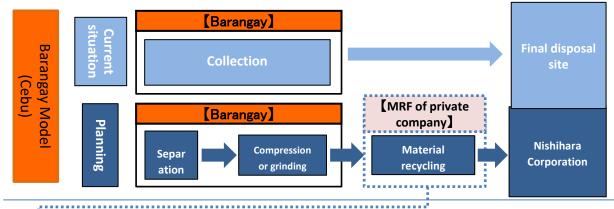
MOEJ: FY 2014 Project on the Overseas Business Development of Material-Cycle Industries in Japan (FY2013, June 2014~)(31/32)

Implementation of study on the formation of a project on the following materials recycling models targeting flexible plastic wastes, such as plastic shopping bags disposed of by households, etc., in the cities of Cebu and Naga in the Metro Cebu area.

[Barangay* Model] Project on separation and material recycling of plastic waste that is landfilled at source (in cooperation with the City of Cebu).

[Private MRF Model] Recycling project that uses Material Recovery Facilities (MRF) owned by FDR, a private company in the City of Naga (in cooperation with FDR).

X Barangay: Smallest administrative unit in the Philippines



Description of model: Flexible plastic waste that has been landfilled until recently is separated and washed by residents. This waste is purchased by the barangay (estimated at PHP 1/kg). The waste which has been grinded in the barangay is collected at a private MRF and purchased by Nishihara Corporation, which offers advise on the purchase of a plant and technical support to the barangay for the construction and operation of the plant.

Cebu has already secured a budget to purchase a grinding machine and has decided where the machine will be installed.

Private MRF Model 1,000~ Cement kiln Product (Naga) Separation (fluff fuel) 2.000PHP/t **Planning** 10.900~ (raw materials for 13,000PHP/t Product Plastic sheets Grinding Separation Crushing dehydration and plates, other plastic products)

<u>Description of model</u>: Waste plastics, which had been converted into fluff fuel and used as fuel in cement kilns (thermal recycling), undergo material recycling through the new process of separation, washing, dehydration, and grinding (high value-add recycled products).

Nishihara Corporation and a local partner (FDR company) have signed an agreement to implement the material recycling project for flexible plastic waste in January 2014, and have agreed to start the project within one year.

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