Overseas Waste Management Business

—Appropriate Disposal of Medial Waste in Southeast Asia—



Nishihara Corporation









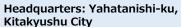












Plants: 6 plants in Fukuoka Number of employees: 110 Capital: 500 million yen

The Company engages in the collection, transport and disposal of business waste as a licensed operator in Kitakyushu City.

In recent years it has developed its own waste management system and uses it to support waste generating businesses and waste disposal operators nationwide in conducting appropriate waste management in compliance with administrative rules.



1. Status of Waste Disposal in Developing Countries



2. Current Initiatives in Indonesia

(1) Urban-type recycling facilities





Unseparated household waste

⇒ Recycling

Waste reduced by 60%

(2) Urban-type composting facilities





Food waste ⇒ Materials for organic compost

Waste reduced by 80%

(3) Urban-type waste management complex





Household and business waste

 \Rightarrow Recycling

Aim to reduce waste by 60% or more



4. What Is Required and Current Challenges



What is required by governments in developing countries

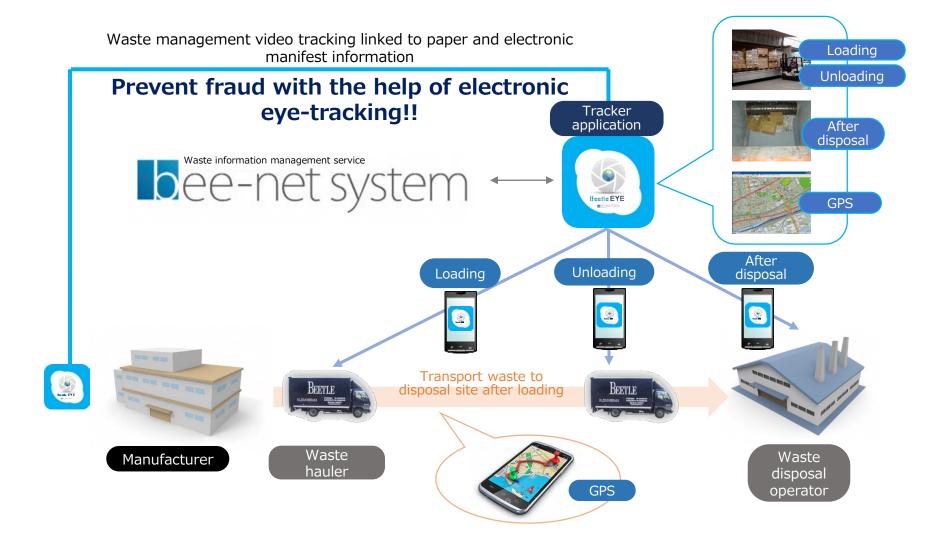
Appropriate management and disposal of 5-15 tons of daily medical waste including infectious waste

- 1) Build a mechanism for collecting and transporting medical waste aimed at boosting the collection rate
- 2) Establish disposal facilities that ensure steady operation

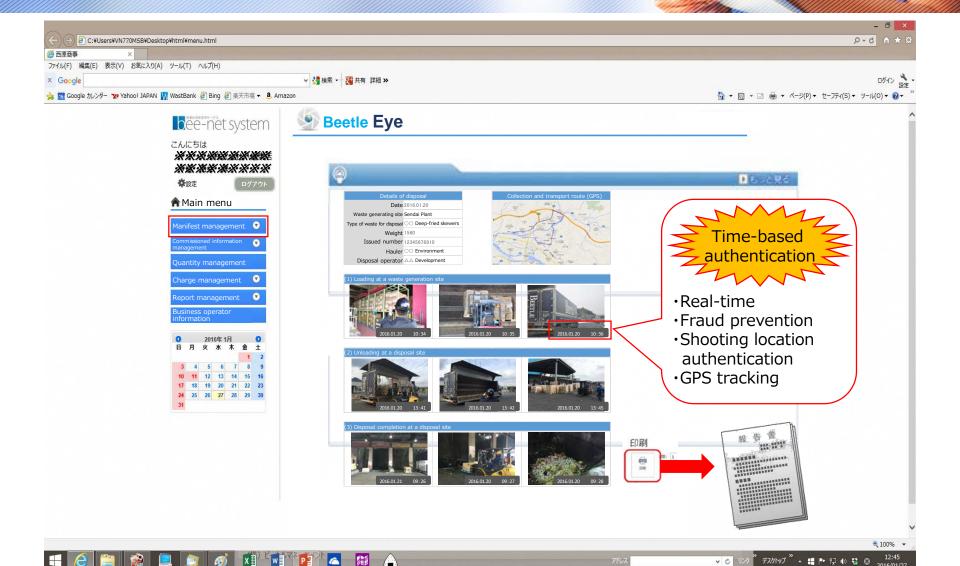
Current Challenges

- 1) Build a mechanism for collecting and transporting medical waste aimed at boosting the collection rate With the collection rate remaining low and fly-tipping common, there are concerns that medical waste including infectious waste will have negative effects on not only the global environment but also on citizens. Although local laws and regulations require manifests to be prepared, **there is no method of tracking and managing** all the waste generated by medical activities. Accordingly, despite the existence of governing rules, it is extremely difficult to assess the current status of medical waste management.
 - ⇒ Beetle Eye system
- 2) Establish disposal facilities that ensure steady operation
 The steady operation of incineration processes at disposal facilities largely depends on the type of
 materials received. However, neither the government nor the private sector has enough relevant
 experience. Accordingly, there are unrealistic laws and operating regulations, which sometimes hinder
 construction/operation of disposal facilities, cause unusually long maintenance periods, and make the
 steady operation of incinerators difficult.
 - ⇒ Urban-type medium scale incinerator

5. Beetle Eye Approach to Challenge 1



5. Beetle Eye Approach to Challenge 1



6. Urban-Type Medium Scale Incinerator Approach to Challenge 2



6. Urban-Type Medium Scale Incinerator Approach to Challenge 2









7. Collaboration between the Target Country, Local Governments and Citizens

