

ShinMaywa

Municipal Waste Transfer Station

Kuala Lumpur Solid Waste Transfer Station



Features and mechanism of transfer container with double shift type tailgate



- Waste discharged by Hydraulically Operated Horizontal Ejection Plate.
- Tailgate lock, Tailgate open/close, Ejection plate and Landing gear are operated by hydraulic cylinder. Hydraulic power to be supplied by Tractor Head.
- 1m³ of Drainage tank for Leachate is equipped.
- Double Shift Door type tailgate.

Tailgate door of the container serves as a compactor push plate too

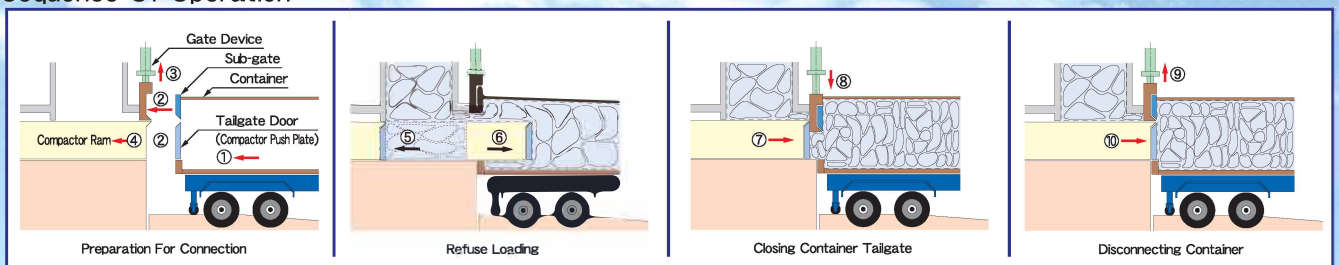
- Efficiency is much increased without scatter of waste

Sub-gate of the container moves up and down synchronizing with the movement of compactor gate mechanism

- The Sub-gate provides bigger opening of the Container for efficient waste loading.
- Sub-gate fits tightly to the tailgate door after disconnection so that it fully prevents spill of waste.



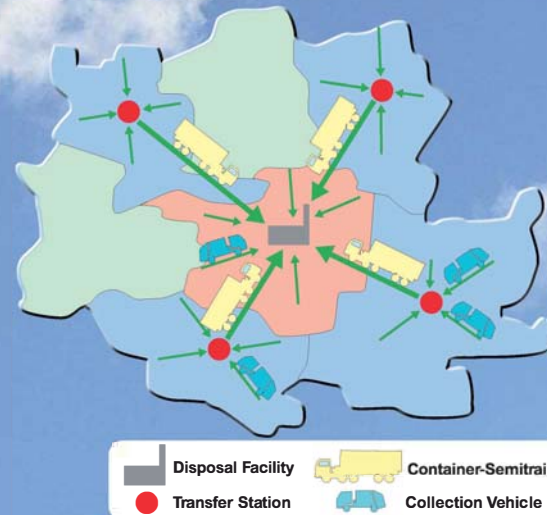
Sequence Of Operation



Separation of Waste Collection and Transportation Has Produced an Epoch-making System

The principal behind a waste transfer station is to provide a central collection point for municipal waste which are efficiently loaded onto large specialized waste transfer containers for delivery to disposal facilities such as a landfill or incineration plant. And also the transfer station contribute to maximize the operational efficiency of the waste collection vehicles. Consequently, frequency of transportation to and from the disposal facility is much reduced, which offering an effective solution to the present-day energy issues and environmental protection.

The transfer station layout must be designed to enable efficient collection of the waste, short term storage and efficient and reliable loading of the transfer vehicles with good traffic flow for incoming and outgoing vehicular traffic. Waste collection vehicles discharge the load into the hopper. Then, the feeder pushes the waste into compactor filling chamber. The compactor loads the waste into large-sized transfer container.



Features of ShinMaywa Transfer Station System

Clean and hygienic, and free from scatter of waste

Waste dumped in the hopper is automatically and hygienically loaded into an enclosed large-sized container with no emission of odor or scatter of waste. And also employing the Post Loaded type compactor system, leachate generation in the transfer station can be minimized.

Highly efficient transportation

By the use of waste compactor, a large-sized container carries many small-sized waste collection vehicles at once.

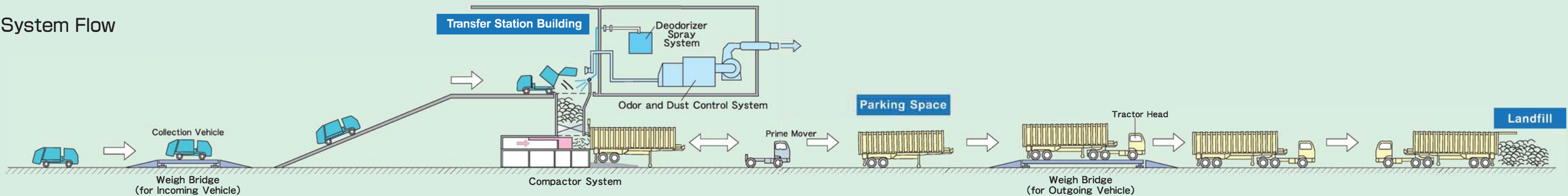
Thoroughgoing environmental safeguards

Powerful dust collector and deodorizer are equipped in the transfer station system to completely protect the surrounding environment.

Automatic operation

All of the operation are fully automatic that includes container connection, shifting container tail gate to the compactor ram, waste compaction, and container disconnection.

System Flow



Facilities



● Central Control Room



● Odor and Dust Control System



● Compactor System (Ground Floor)



● Container-Semitrailer with Tractor Head



● Unloading Area (2nd Floor)



● Hopper



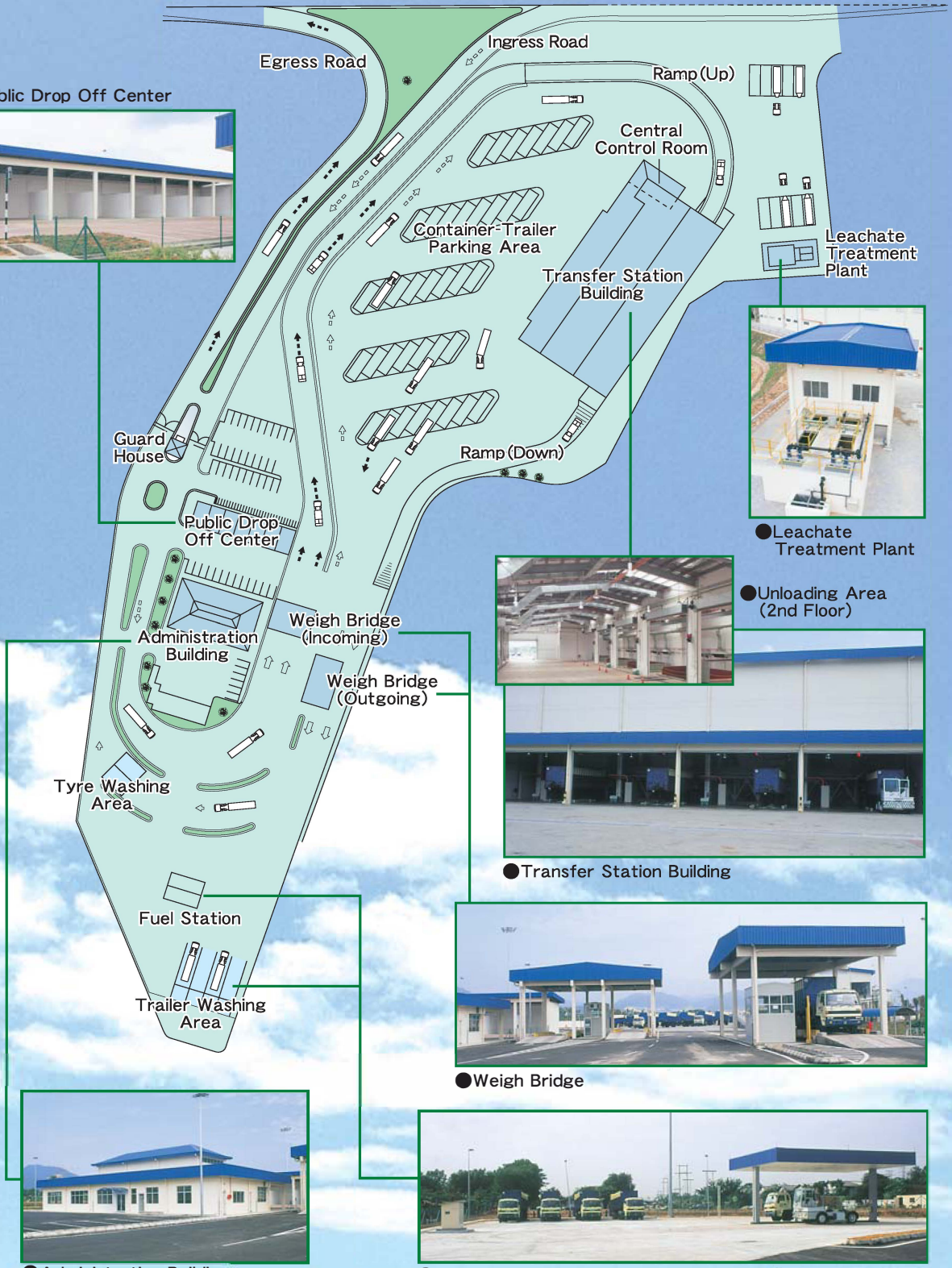
● Compactor System (Ground Floor)



● Container-Semitrailer with Prime Mover

Site Layout

● Public Drop Off Center



● Leachate Treatment Plant



● Unloading Area (2nd Floor)



● Transfer Station Building



● Weigh Bridge



● Administration Building



● Fuel Station and Trailer Washing Area

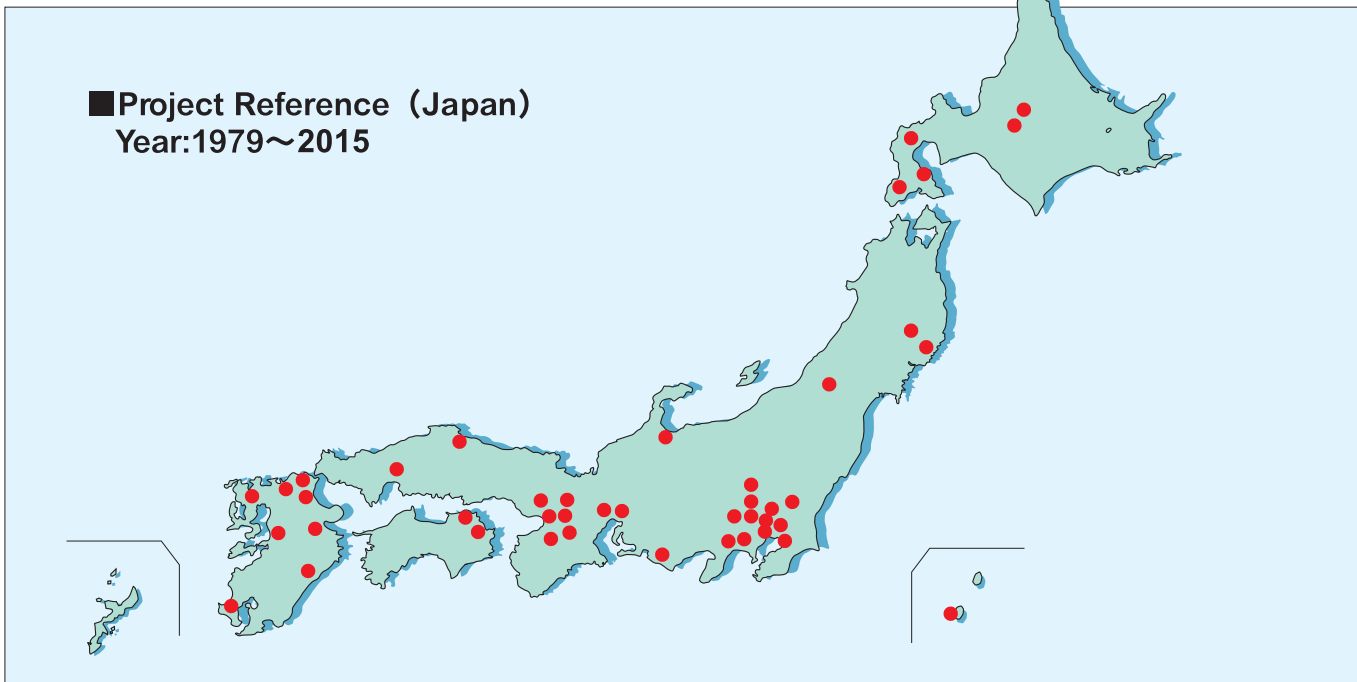
Outline of Transfer Station

Capacity	1,700 tons/day	
Peak Hour (Receiving) Capacity	270 tons/hour	
Operating Hours	16 hours/day	
Numbers of Compactors	4 lines	G.C.W.:38 tons Payload:17 tons (40m ³)
Numbers of Container-Semitrailers	48 units	
Numbers of Tractor Heads (On-road Vehicle)	31 units	
Numbers of Prime Movers (In-plant Vehicle)	4 units	
Environmental Facility	Odor and Dust Control System Deodorizer Spray System	
Site Area	5.2 hectares (52,000m ²)	
Transfer Station Building	4,886 m ²	
Administration Building	612 m ²	
Construction Period	May 2000 ~ December 2001	

Transfer Station in Japan



Project Reference (Japan) Year:1979~2015



Specifications and dimensions are subject to change without notice.

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