

# VERTICAL WASTE DISPOSAL SYSTEM FOR CGH TENANTS

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## AIMS

This project aim is targeted to :

- (a) Improve the utilisation of the service lift at CGH Lobby D to cater for the use of other essential services;
- (b) Increase the productivity and workflow for the waste transportation and disposal process carried out by the hospital's retail tenants.

Previously, all tenants had to manually push the waste bins from Level 1 & 2 to the bin centre at basement 1, via the service lift at Lobby D.

With the high disposal frequencies, it causes congestion and long waiting time for other users using the lift. This elevated the utilisation of this lift which also serves the demands for other essential services such as vendors' goods deliveries, inventories' top-up, porters' services etc.

## CHANGES

To improve the efficiency of the disposal process, Facilities Management Department had designed and installed a vertical disposal system which is integrated with the existing bin centre layout. This involves the following enhancement:

- Design and build a walking platform at Level 1, behind the food court area. This platform is located directly above the bin centre;
- To create a hopper at Level 1 so that tenants can load their waste bags into the hopper. The bags will "drop" straight into the waste compactors at basement 1;
- With the assistance of GS Dept (which oversees the tenancy operations) to provide training and monitoring for the tenants on the use of this new method of vertical disposal.

## MEASURES

With this propose enhancement, it has significantly reduce the waiting time and congestion for the service lift. On daily basis, all the tenants made around 35-40 trips for their waste disposals using the service lift. This equates to >1 hour per day (~38 trips x 2 min) for the lift utilisation, in which 85% are carried out during the busy period between 8am-8pm.

This project reduces the travelling time for the tenants during their waste transportation from Level 1 & 2 to basement 1. Based on the feedback received from the 2 biggest tenants :

- Kopitiam : travelling time has reduced from average 8 min/trip to 2 min/trip, efficiency improves by 400%.
- 1983 Coffee & Toast : travelling time has reduced from average 12 min/trip to 8 min/trip – efficiency improves by 50%.

## CONCLUSION

With the vertical waste disposal system, it speeds up the disposal process for the CGH tenants by reducing the travelling time to dispose their waste at the bin centre at Basement 1. This improvement project also free up the high utilisation of the service lift at Lobby D and improves the congestion and waiting time for other users.

## Previous : Disposal process by tenants

Tenants manually pushing the waste bins along the public corridors and taking the service lift at lobby D



## After : Vertical Disposal System

Tenants standing on the newly build platform at level 1 (directly above the bin centre)



Tenants dispose the waste bags into the hopper which will "drop" directly into the waste compactor



Training provided for all tenants on the new method of disposal

