

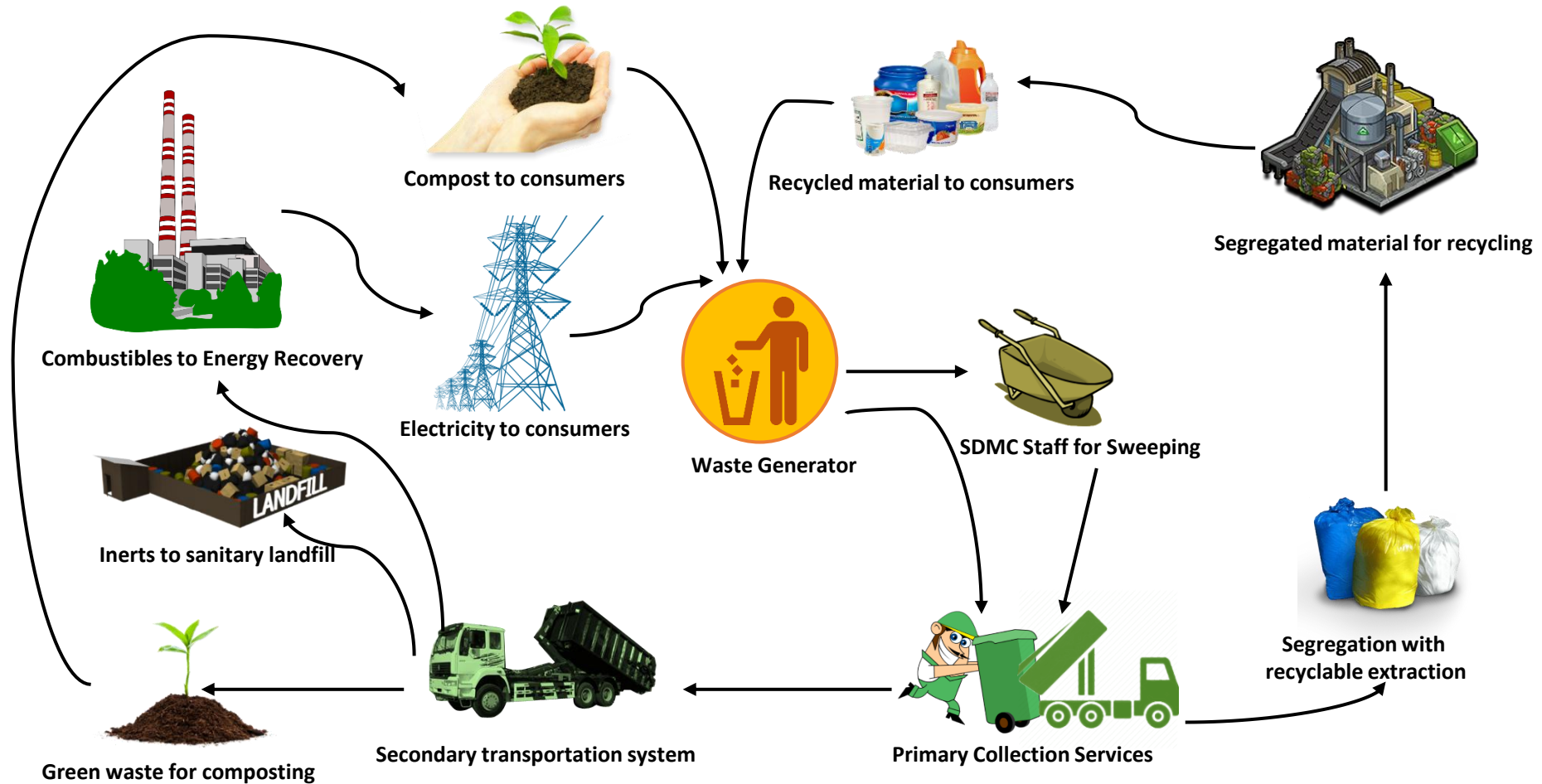
# SEGREGATION OF MUNICIPAL WASTE

## SOUTH DELHI MUNICIPAL CORPORATION

### INITIATIVES AND BEST PRACTICES



# Circular Economy through MSWM



# SEGREGATION OF WASTE AT SOURCE

- PROGRAM SCOPE & ACTIVITIES
- AREA COVERAGE
- CHALLENGES
- IEC ACTIVITIES



# PROGRAM SCOPE & ACTIVITIES

- Conducting the Awareness program with the households for segregation of waste
- Identification of gaps in segregating the waste at the household level
- Listing the gaps and discussion with the informal sector workers and the residents on addressing the gaps
- Conducting training / orientation programs to all stakeholders. This also included home composting activity training
- Reporting on a weekly basis on each activity
- Targeting Zero Waste Colonies

# OBSERVATIONS

- The Informal waste pickers are being integrated with private concessionaires.
- The Tricycles with twin bins to collect segregated waste – wet and dry waste have been provided to the informal waste pickers.
- The Private Concessionaires has provided a separate dry waste segregation centres to facilitate the waste collectors to further segregate the dry waste.
- The clean dry waste provides an incentive to the informal waste pickers as a additional financial support for sustainability to them and their families.
- The segregated dry waste are being purchased at the market value from the waste collectors by the concessionaires.

# CHALLENGES

- Ensuring 100% door-to-door collection of Segregated Waste from each household of unauthorized and slum areas.
- Ensuring purchase of the dry waste from the waste collector on a daily basis
- Reducing the options available for waste disposal in each locality by removing the bins and dhalaos in phased manner.
  - Collection of hazardous waste and e-waste and its disposal
- Ensuring appropriate and scientific disposal of the household hazardous and LVP/MLP waste

- Promoting home composting through training to the household members in each locality
- Promoting community composting in each locality, in view of land availability.





## Tricycle waste collectors collecting Segregated waste at the household level (door-to-door collection)

### Rk Puram Sector 2





## Training to Waste Collectors and awareness program for source segregation of waste in R.K.Puram



## Awareness program for source segregation of waste





## Home composting by Residents





## Propagation





## Home composting training to the households

### Experience Home composting activity by residents



### Participatory Home composting training



### Hands on Home composting training





## Propagation and Awareness program at the School level





# Methodology for segregation of waste

- Deployment of twin-bin auto tippers
- Integration of informal waste pickers
- Transformation of dhalaos into Recycling/Collection Centres
- IEC activities for awareness generation among community towards waste segregation
- IEC activities for training to informal waste pickers towards waste segregation

# Segregation Efforts: Operational

- Segregation of waste near source: twin-bags distributed to cycle rickshaw pulling door step waste collectors
- Waste not allowed to reach dhalaos and is transferred directly to DDSIL tippers with separate bins for wet and dry wastes
- 17 sites in Central Zone including 15 FCTS points and 2 parking sites converted to Recycling Centres
- Dry waste from residential areas handled at recycling centres
- Dry waste from commercial establishments handled at recycling centres



# IEC Activities

- Meetings with Public Representatives
- Training Sessions with:
  - School and college students
  - Residents' Welfare Associations
  - Rag pickers
  - Private waste collectors
  - Community
- Trainings through:
  - Representations
  - Quiz and games
  - Painting competitions
  - Meetings and discussions
  - Street plays
  - Workshop sessions





# Distribution of Household Dustbins





# Decentralized composting of MSW in Colonies : Defence Colony, SDMC

- Pit composting being practised
- RWAs in coordination with households and rag pickers
- All the wet kitchen waste as well as garden trimmings and occasional pruning waste in the pits located throughout the colony
- Dry waste taken away by the rag picker as incentive
- Identity cards provided by the RWA to all the rag pickers



# Drum Composting at decentralized level

- Drum composting in a drum of 200 ltr. has been started at some locations.
- Organic waste from 20 houses is collected at a defined place in the colony where a drum rotating composter is installed
- A drum composter is a simple yet effective equipment wherein a cylindrical drum is rotated along its axis intermittently so that the organic waste is aerated
- This rotation reduces the decomposition time and makes the process much more efficient





# TRICYCLE WITH SEPARATE BINS FOR DRY AND WET WASTE



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# AUTO TIPPERS WITH SEPARATE COMPARTMENT FOR DRY AND WET WASTE



# AUTO TIPPERS WITH SEPARATE COMPARTMENT FOR DRY AND WET WASTE



# GREEN AND BLUE GARBAGE COLLECTION CENTER



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# Packaging and Sale of compost



# ROAD SIDE TWIN BINS FOR DRY AND WET WASTE



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