

WASTE GENERATION & MANAGEMENT

For residents (4965nos.) @ 0.65 Kg/Day-

Type of Waste	Colour of Bins	Category	Disposal Method	Total Waste (Kg/ day)
Organics	Green	Bio Degradable	Municipal Solid Waste Site	1613.625
Papers	Blue	Recyclable	Approved Recycler	580.905
Metals				
Glass				
Textiles				
Plastic				
Ash & Dust	Grey	Non-Bio degradable	Municipal Solid waste Site	1032.72
Total				3227.25

Waste Generated from Floating Population @ 0.15 Kg/Day-

Populat ion	Category	Total Waste	Bio- degradable	Recyclable	Non-Biodegradable
Nos.	Floating	Kg/ day	Kg/day	Kg/ Day	Kg/ Day
1000	Visitors	150	75	27	48

Waste Generated from Service staff /Population expected under community facilities/nursery school @ 0.25 Kg/Day-

Populatio n	Category	Total Waste	Bio- degradable	Recyclable	Non-Biodegradable
Nos.	Floating	Kg/ day	Kg/day	Kg/ Day	Kg/ Day
535	Service Staffs	133.75	66.875	24.075	42.8

- The solid waste shall be segregated and collected as per the above scheme. These bins will be emptied into **1 no. of transit center** available.

- Total expected MSW generation as per [Solid waste management Rules, 2016](#) and [Guidelines - Ministry of Housing and Urban Affairs](#) is roughly 3,511m Kg /day for the [proposed project](#) .
- The solid waste shall be segregated into Bio-degradable, Recyclable & Non-Biodegradable for which green, blue & grey bins will be provisioned.
- Total organic waste generated will be around 1755.5 Kg /day. Organic waste converter will be installed to convert organic waste such as vegetable waste, meat waste, bakery waste, leaves, fruits and fruit skins, and flowers into valuable compost which can be used as compost/manure for the landscaping within the premises
- Total non-biodegradable waste (ash/dust) generation anticipated shall be picked up on the instructions of Nagar Palika for disposal.
- Total recyclable waste (organic/paper/metal/glass/textiles/plastic) generation anticipated is around 631.98kg/day for which authorized UPPCB vendor will be engaged.
- M/s Khan Traders, B-5, site 4, Panki Industrial Area, Kanpur is contacted for the same which is around 17km from the project site.

Total Organic Waste = 1755 Kg/ Day

Organic Waste Converter Details:
Specifications of Proposed Organic Waste Converter:

Capacity per 8 hours : 600 Kg

Power Consumption: 4.77 Units

Plant Size : 9.0 m x 9.0 m

The proposed characteristics of Organic Manure:

Total Organic Carbon: 41.93%

Total Kjeldahl Nitrogen: 3.13%

C:N ratio = 13.38 : 1

N:P:K = 3.13 : 3.41 : 1.70

pH : 7.8

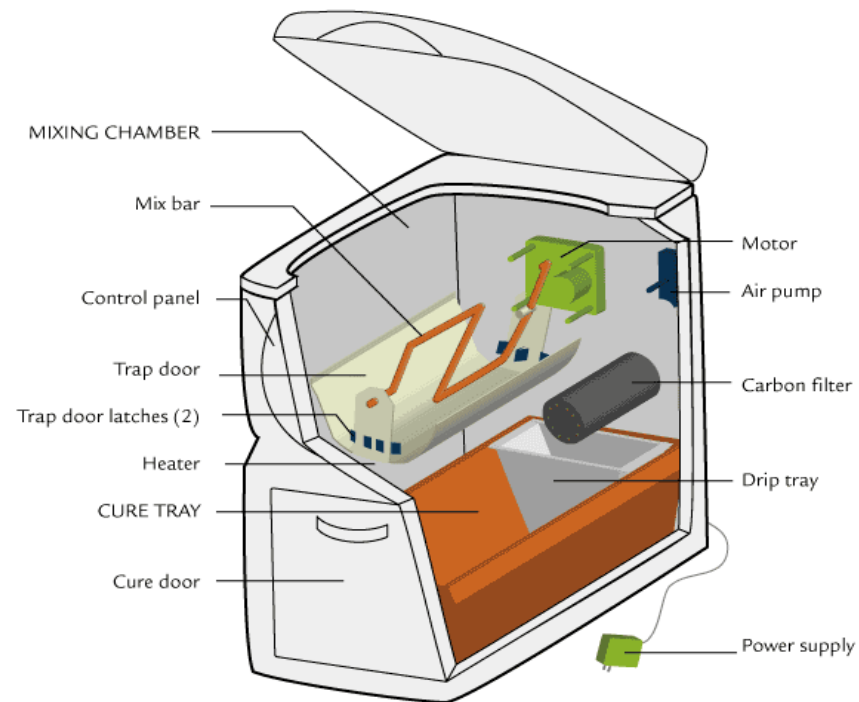


Figure: Schematic Diagram of Proposed Organic Waste Converter

Valuable compost is proposed to be used as manure for green area