
 <p>South Zonal Office, Bangalore</p>	<p>Joint Inspection Report of Setting up of Demonstration Facilities for Management of Municipal Solid Wastes to Implement MSW (M&H) Rules 2000 in Udumalpet, Thiruppur District, Tamilnadu</p>	 <p>TNPCB Tiruppur (South)</p>
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1.0. Background

With reference to CPCB, H.O. letter No. F.No.B-11012/12/PCP/2015-16/17273 dt.07.01.2016, officer from CPCB, Zonal Office, Bangalore and TNPC Board, Tiruppur (south), jointly inspected the Setting up of demonstration facilities for management of Municipal Solid wastes to implement MSW (M&H) rules 2000 in Udumalpet, Tiruppur District, Tamilnadu on 29.01.2016 for verification of the progress of work done and to expedite the Utilization Certificate (UC) from Udumalpet Municipality (UM).

Following officials of Central Board and State Board verified the progress of work done at Udumalpet Municipality on 29.01.2016;

1. Mrs. H.D. Varalaxmi, SEE/Sc.D, CPCB, ZO, Bangalore
- And
2. Mr., R. Mathivannan, DEE, TNPCB, Palladam Regional Office
3. Mr. J. Sathesh, A.E., TNPCB, Palladam Regional Office

The following officials from the Udumalpet Municipality were present for discussion and site inspection:

- 1) Sh. John Prabu, A.E., UM
- 2) Sh. Selvakumar, Sanitation Inspector, UM

During joint inspection of CPCB and TNPCB, Udumalpet Municipal Commissioner and Municipal Engineer were not available. The team had discussion with Assistant Engineer & Sanitation Inspector and visited the compost yard as well as few areas of Udumalpet Municipality to verify the progress made as per MoU. Following are the work done by UM;

1.	Progress Achieved as per MoU		
	<i>Description of works/ equipments/ tools</i>	<i>:</i>	<i>Status of progress made</i>
i	Sets of two house hold bins (Green & Black) of 5 kgs storage capacity	:	Informed that they provided to houses for storage of wastes
ii	Mass Awareness (through booklets print and electronics media workshops, seminar	:	Informed that they purchased LCD Projector and Digital camera has been purchased for the purpose of mass awareness programme
iii	Auto bins	:	It was not available during inspection

iv	Pushcharts with 6 containers of 50 litres capacity	:	Procured and the same was found in place
v	Pushcarts (for silt/street sweeping collection)	:	Procured (78 no.) and the same was found in place
vi	Sweeping tools (Metal tray and metal plate, Long handled brooms, shovels and protective gears)	:	Procured and the same was found in place
vii	Litter bins	:	It was not available during inspection
viii	Temporary storage containers 2.5 cmt	:	Procured (68 no.) and the same were found in place
ix	Tractors	:	Procured (1 No.)
x	Hydraulic containers lifting devices/systems	:	3 Nos. of hydraulic containers were found in place.
xi	Surveillance Squad	:	Informed that monitored by officials by UM
xii	Setting up of compost plant of 30 MT/day processing capacity	:	Provided the compost plant comprises of paved yard, power supply and lighting arrangement, BT road at compost plant, Barbed wire fencing around the yard, working shed, toilet, service station, Biochopper, Compost screener, Front end loader, Hopper and conveyor system.
xiii	Management of Landfill	:	Land fill site yet to be purchased
ix	Status of Municipal solid waste Management in Udumalpet Municipality	:	Status report enclosed at Annexure -1
5.	What are the works Left	:	Development of land fill site (Purchase of land fill site is under progress)
6.	Whether Monitoring committee is constituted and how many meetings constituted	:	No committee constituted
7.	What are the difficulties in completion of Project	:	The identified land for development of land fill site was found adequate for one and half year only. As per the guidance of Chennai Anna University they required 4 hectares. Due to insufficient fund, difficulties were raised to finalize the required land fill site.
8.	What is the final date of completion	:	Work to be completed in Dec 2007 then CPCB extended the project till Sep 2008. Finally work completion was communicated along with UC on 22.10.2010 except landfill work.
9.	Reasons for Delay in Project	:	Paucity of fund for purchase of required land fill site.

10.	<p>Observations made during visit:</p> <ul style="list-style-type: none"> i. It was informed that Udumalpet Municipality has 33 wards, out of that only in two wards segregation at source were made. In remaining 31 wards solid waste is collected through house to house by push carts. It is informed that presently around 78 push carts were exist to collect waste from house to house. ii. 68 temporary bins were placed in different areas of UM to collect waste and the same is lifted by using Hydraulic containers lifting device (3 no.) and transported to compost yard. iii. One tractor with front head loader was found procured to clear debris and other wastes. iv. 3 tipper lorries were found procured to transport wastes from collection centre to compost yard. v. It was informed that solid waste process is carried out through M/s Infra Leasing & Financial Services (IL&FS). Around 25 MT/day is received without segregation. The waste received is segregated by manually to separate recyclable waste viz, pet bottles, plastic bags, glass bottles and coconut shells. They provided concrete plat form in 1.3 acres for making compost with garland drain to collect leachate. These wastes were sold to local recycler. The remaining waste being stocked for composting by churning and spraying of leachate. After maturation same being segregated by using sieving machine. vi. It is informed that around 20% of waste being composted remaining waste of around 10MT/day (dry basis) being dumped in the same premises of compost yard, The dump site is not prepared as per MSW Rule, no lining, no garland drains to collect leachate. The non bio-degradable waste was found dumped in haphazard way. <p>The photo graphs of MSW Facilities provided at Udumalpet Municipality is enclosed at Annexure - 2.</p>
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R. Mathivannan
DEE, Tiruppur (South)

H.D. Varalaxmi
SEE/Sc.D., CPCB, SZO

Annexure -1

Status of Municipal Solid Waste Management in Udumalpet Municipality

Sl. No.	Description	Status
1.	Present population of the city	61150
2.	Agency/Agencies responsible for handling of MSW	Integrated Waste Management & Urban Service company (IWMUST)
3.	Generation of MSW per day (In Tonnes/day)	34 MT
4.	Whether reported MSW generation is based on actual survey or it is based on estimation	Informed that based on actual survey
5.	The year of reporting for generation of MSW	2015-2016
6.	Composition of MSW and who has done	Compostable (organic) matter : 20% Inerts : 50-55% Recyclable including plastics, rags etc: 5%
7.	Quantity of waste collected every day (from collection points/dustbins) (T/d)	34 MT
8.	Quantity of wastes collected every day from collection points/dustbins) (T/d)	Nil
9.	Quantity of waste lifted at different places other than dustbins in T/day	4.5 T/day
10.	Quantity of waste processed	Compost yard – 1.3 acres Composting - 4 to 6 T/day Vermi composting – nil RDF: nil Waste of Energy : nil Others : nil
11.	Quantity of waste land filled per day (T/day) - Number of landfill is operation and the area - Whether operational land fil are complying with MSW Rules	10 MT One, 3.7 acres Not complying
12.	Whether any action plan has been prepared for management of MSW	No action plan prepared
13.	If yes, summary (If available detailed report may be attached)	-

Photographs of Demonstration Facilities for Management of Municipal Solid Wastes in Udumalpet



Push chart with containers



Temporary storage containers placed in various places of UM



Hydraulic Container lifting devices



Tractor with front header



Lorry to transport wastes



Waste without segregation piled in compost yard for making compost



Waste under compost process



Bio-chopper cum screener



Compost screener with belt conveyer



Packing machine and finished compost storage shed



**Tractor to carry waste from compost yard
waste to dumping place**



Front head churner for churning



Dump site exist within the compost premises without lining and garland drain to collect leachate