



**BRUHAT BANGALORE MAHANAGARA PALIKE**

No.Spl.Comm.(O&M) /PR/<sup>19</sup>2016-17

Office of the  
Special Commissioner  
(Solid Waste Management/Health)  
N.R. Square, Bangalore-560 002  
Dated: 25-04-2016

**CIRCULAR No.14**

Sub: Effective operation and maintenance of MSW plants

- Ref: 1. Agreement executed by BBMP with equipment, machineries, suppliers and O&M operators in varying dates  
2. This office circular No.8 dated 29-01-2016 on Odour control and RDF  
3. This office circular No.9 dated 06-02-2016 on Insurance to be plants  
4. SOP circular issued dated 10-03-2016

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Bangalore city is daily generating about 3500 MT of Municipal Solid Waste. The Government of Karnataka with an objective to improve the solid waste management (MSW) services in the Bruhat Bangalore Mahanagar Palike (BBMP) area has established solid waste processing, treatment and disposal facilities in 7 locations of Bangalore city. It is the responsibility of BBMP to dispose of MSW in scientific manner without affecting the health of the citizens and to keep the city very clean. The total capacity of waste processing unit established is 2600 MT per day (from 7 plants).

The plants are designed for the mixed waste and to come up to the expectation to place proper system, BBMP has given sufficient time to have requisite trained man power by allowing only segregated wet and dry waste at lower quantities, and not supplying mixed waste. Despite of knowing all these issues no proactive action has been taken by O&M operator on time. It is the time for all plants to be run to its optimum designed capacity for which Operation and maintenance to be more responsible and effective by following standard operating guidelines, (SOP) without any deviation and **plant should not be stopped due to breakdown of equipments and machineries, or for want of spare parts etc.** Keeping this in view equipment suppliers have been provided with 2 years of annual maintenance of equipments and machineries from the date of effective operation of the plants.

...2)



It is brought to our notice from O&M operators that the equipments of the plants are being breaking down often and often, and not matching to the designed capacity etc. due to which the plant operators are diverting the waste vehicles without unloading into the plant premises which is leading to huge garbage crisis in Bangalore city. **The repair of breakdown of equipments and machineries to be taken up immediately by suppliers and repair to be completed within 3 hours to avoid piling of garbage.** If the situation requires more than 3 hours to repair equipments and machineries the fact to be brought to the notice of head office, BBMP for further action.

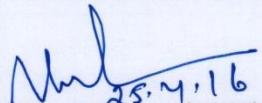
For effective running of plants to its designed capacities the following procedure to be followed.

1. Plant to be operated strictly as per SOP guidelines
2. Windrow operations shall be in aerobic condition
3. Each windrow turning to be as often as possible not more than 7 days. Provisioning for forced air ventilation may be examined for faster decomposition. Spreading of material in the curing section may be adopted to avoid fungus formation and improve curing.
4. Necessary steps to be taken for reduction of leachate generation and strive for zero leachate over a period of time.
5. RDF stock to be shifted on day to day basis.
6. To deploy adequate manpower for every shift as per the inter ministerial manual and agreement clause.
7. Skilled manpower deployed for operation of equipment and vehicles
8. Appropriate compost starter cultures to be used for enhancing overall process.
9. Ensure trained plant operators on the science of composting to improve operational efficiency
10. The apparatus required to measure moisture, temperature and PH value of the waste of windrow, to be kept at site.
11. The quantity of waste allotted for each plant from head office should not be altered/ diverted without the concurrence of head office.
12. Vehicles scheduled to the plant should not be diverted to any other plant, place from the O&M operator locally under any circumstances without the approval of the head office, BBMP.
- 13. Minimum quantity of spare parts to be made available at the plant which requires, at the time of breakdown of plants.**
- 14. The team of trained personnel from the equipment supplier side, to be at plant, to take up immediate remedial measures, at the time of breakdown of plants**
15. O&M operators and equipment suppliers to work in coordination and to feel ownership of the plants
16. Requisite licenses to be obtained by the operator from the competent authorities.

...3)

17. Insurance of the plants to be taken up by the O&M operators
18. Plant to be maintained neat and clean.
19. Corporate social responsibility works such as construction of roads, toilets, road side tree plantation, construction of school rooms, de-silting of tanks, providing water facilities to nearby villages etc. to be taken up immediately.

The above instructions to be followed strictly and compliance to be sent within 30-04-2016.

  
25.4.16  
Special Commissioner (SWM)  
BBMP

To,  
All Plant Operators and Equipment Suppliers.

Copy to:

1. The Commissioner, BBMP, Bangalore for favour of kind information.
2. The Joint Commissioner (SWM)/RRNagar/Bommanahalli/East
3. The Chief Engineer, RRNagar/Bommanahalli/East
4. The Executive Engineer, RRNagar/Bommanahalli/East
5. The GM (UR) KUIDFC, Bangalore.

