Central Pollution Control Board

Zonal Office (South), Bangalore

Project Head – VI Waste Management and Urban Pollution Control (plastic waste, Hazardous Waste, Municipal Solid Waste, Bio-Medical Waste, E-Waste & Vehicular Pollution

Scheme 37

Monitoring of Municipal Solid Waste Management Facility 2013-14

S No	Name of the MSW site	Address	State	Date of Inspection	Present Status
1	M/s Ramky Enviro Engineers Ltd.,(CMC – Shimoga),	Sy. No. 198, 202 - 206, 208 to 210, Anupinakatte Village, Shimoga Taluk & District, Karnataka – 577 204	Karnataka	20.11.2013	Report submitted to H.O. on March 18, 2014 for further n.a. pl.
2	Solid Waste Disposal Facility (MSWDF), Kochi Municipal Corporation	Brahmapuram, Kochin	Kerala	11.12.2013	Report submitted to H.O. on March 18, 2014 for further n.a. pl.

3	Kodungaiyur	Chennai	Tamilnadu	28.11.13	Chennai Corporation in the Council meeting held on 23/11/2011 has passed resolution for Calling Expression of interest from competent firms for providing integrated Solid Waste Management facility at Kodungaiyur. Officials from Chennai corporation informed that steps are being taken to provide a Municipal solid Waste processing facility at Minjur and that tenders were poened and it is under evaluation by a Technical Committee. Corporation of Chennai has been insisted to finalize necessary time bound proposals for remediation of Kodungaiyur dump site and scientific use of the same till the Municipal Solid Waste Processing facility at Minjur becomes operational.
4	Kodungaiyur	Chennai	Tamilnadu	28.11.13	Chennai Corporation in the Council meeting held on 23/11/2011 has passed resolution for Calling Expression of interest from competent firms for providing integrated Solid Waste Management facility at Kodungaiyur. Officials from Chennai Corporation informed that steps are being taken to provide a Municipal Solid Waste processing facility at Minjur and that tenders were opened and it is under evaluation by a Technical Committee. Corporation of Chennai has been insisted to finalize necessary time bound proposals for remediation of Kodungaiyur dump site and scientific use of the same till the Municipal Solid Waste Processing facility at Minjur becomes operational.
5	Perungudi	Chennai	Tamilnadu	28.11.13	The total area of the dumpsite is 450 acres but around 200 acres is used for dumping of wastes. The refuse generated from Chennai city is directly dumped into the site without any processing. The facility does not posses any valid ''Consent to Operate''. The dumpyard is reaching its capacity and Chennai Corporation is planning to scientifically close the dumpsite. Pilot study is been carried out by Baba Atomic Research centre to establish a bio-methanization plant. Leachate generated from the dumpsite is leeching into surrounding marshy land.

6	Ariyamangalam	Trichirappalli	Tamilnadu	10.10.13	Tiruchirapalli city corporation with 4 zones and 65 wards has a total population of 916674. Around 430-450 MT of garbage is generated from the corporation per day. Primary collection of waste from households is done using push carts which are then transferred to steel containers or compactor bins. The waste so collected is conveyed to Ariyamangalam site by Tippers, dumoer placers, tractors and compactors. Though Ariyamangalam dumpsite has a total area of 47.70 acres but only 7acres of land is available for compost preparation and remaining land is completely dumped with garbage. Reported, In the available land around 15MT/day of manure is produced. The Corporation is planning to establish a fully integrated MSW facility at Panchappur village in Trichy.Trichy corporation shall be directed to comply to the following. To provide biocapping to the existing site. To carry out ground water analysis around the dumpsite. To establish an integrated waste management facility at a suitable location at the earliest.
7	Vellakkal	Madurai	Tamilnadu	29.08.13	It was observed that the wastes are not segregated at source or transit facilities and un-segregated wastes is reaching the processing facility. An area of 16.19 hectares is earmarked for temporary storage of waste. The waste is then segregated into decomposable portion, inert materials, recyclable plastics and combustible materials. The decomposable portion is treated by aerobic windrow composting and the manure so obtained is sieved, packed and sold. The facility is producing around 90 T/day of manure. To control odour, EM solution is used in windrows. Around 31.5 T/day of inert materials is landfilled. Leachate generated from the landfill is collected in impervious lagoon.

8	Vellalur	Coimbatore	Tamilnadu	9.10.13	No consent for operation.Court hearing is going on . TNPCB is going to start new dumping site.COMPOST is produced. The organic waste collected from the households is transferred to green coloured bins and non-biodegradable wastes is transferred to white coloured bins separately at identified storage locations by CMC. The waste stored separately from the mobile bins are transported to transfer stations by dumper placers, tractors and hydraulically operated refuse collectors. From the transfer station the wastes are tranferred to processing facility through bulk waste carriers. Around 350 T/day of biodegradable waste is composted and converted into manure while inert materials are sent for landfilling. The recyclables are sold to recyclers. The flow chart of the MSW processing is placed as Annexure - 2. The construction of the compound wall and piezometric well is still under progress.
9	Attingal	Trivandram	Kerala	06.01.14	Area: 4.39acres Total Waste Generation: 16TPD Processing Technologies: Vermin, Windrow, Biomethanisation Built up Area: 1400 m2 Vermin Composting Unit: 200 m2. A private firm is engaged for treatment of municipal solid waste.
10	Sabarimala	Kerala	Kerala	07.01.14	Solid waste generated were collected in waste bins and transported to incinerator/compost pit. At Sannidhanam, most of the wastes were burnt in open. Only a portion of solid wastes was incinerated. Most of the biodegradable wastes were separated and disposed in compost pits. The activities of Sabarimala Sanitation Society (S.S.S) were satisfactory. Though, green and yellow bins were placed at several locations, the waste segregation was not effective. The Cleaning staff (SSS) as well as the pilgrims put all wastes together. Further due lack of awareness and carelessness, the garbage transporting people mixed all segregated wastes in each trip and hence this has to be segregated again for incineration. Thus in most of the time, this contaminated wastes had to dump in compost pit. Hence it is high time to change the mode of operation of waste collection. The waste collection and transportation job shall be made the part ofthe incineration/ disposal..

11	Changanangerry	Kottayam	Kerala	08.01.14	Generation of MSW per day : 10T/day The year of reporting for Generation of MSW: 2013 Quantity of waste processed (T/d) Composting: 10T/day doing.
12	Kottayam	Kottayam	Kerala	08.01.14	Present Population of the City: 1,47,209 Agency/Agencies responsible for handling of MSW: Previously MSW plant was handled by Ramkey. A present there is no work due to some despute .Generation of MSW : 30T/day
13	Kannur	Kottayam	Kerala	21.01.14	Segregation of waste shall be carried out at the generation point. Decentralised facilities to treat the segregated waste at the source itself. Own facilities like biogas plants for individual houses. Sanitary land filling for rejects. Plastic recycling units shall be attached to MSW treatment facility.
14	Vatakara	Kerala	Kerala		As directed form HO Based on SEE level discussion with municipal Authorities on 22.02.2012 instructed for scientific land fill at new site already procurred with HDPE. Bottom layer, Leachate collection, treatment system and pucca time bound proposal for scientific land fill at from site and treatment plant at existing site. Follow up directions given from District office and Regional office in 2011 and 2012. Municipality is unable to proceed with disposal methods as land fill etc as strong objections are made from residents of the locality. Remarks - Decentralised plants such as Windrow/Vermi Composting, Biogas plant may be insisted for treating the biodegradable wastes. Existing land can be used as a land fill site for rejects.
15	Khozhikodu	Callicut	Kerala	22.01.14	Place where MSW is processed and extent of area available with local body for processing MSW. In case MSW is dumped in places other than that owned by the local body, the details there of - Njellyanparamba, 8 Km away from city, 13 acres of land available for treatment & 5.8 acres of land available for sanitary land fill

16	Malapuram	kottakal	Kerala	23.01.14	Name of the local body (where waste is generated) - Kottakkal. Details of land use and inhabitation within 100 m radius of the Municipal Solid Waste processing/dumping site - No residence within 100m.. Place where is processed and extent of area available with the local body for processing MSW. In case MSW is dumped in places other than that owned by the local body, the details thereof - 3acres of land at Mailady, 6 Km away from Kottakkal town. Quantity of waste generated in 10 T day. Quantity of waste collected by local body in 8T/day. Quantity of waste processed 3T/day. Quantity of waste dumped without processing - 5T/day. Whether the land available is enough for handling wastes brought for processing/dumping - Yes. The processing details including method adopted - conventional windrow composting and biogas plant. Area set apart for land filling - Only dumping of rejects.
17	Vasco	South Goa	Goa	13.02.14	Present Population of the City: @1.5 lakhs Agency/Agencies responsible for handling of MSW: Generation of MSW 30-35 MT/day (Avg) : Agreement executed with Chemtrols Pvt.Ltdin the year 2000. Composition of MSW Compostable (organic) matter: 45% Inerts: 5% Recyclables (includes): 50% Plastics 25% Rags: 25% Quantity of waste collected every day : 30-35 MT/day (Avg) Quantity of waste remaining uncollected: 5-8 MT/day (Avg) Quantity of waste littered at different places: 5-8 MT/day This Council has taken up steps to upgrade the existing Garbage Treatment Plant for which Consultant has been appointed. This Council has called for renewal of Authorisation given by GSPCB which expired in Nov 2013. Same is awaited.

18	Panagi	North Goa	Goa	14.02.14	The total quantity of MSW generated is between 50MT-55MT per day. The waste collected is as per the schedule. The bio-degradable waste is collected every day. The non-biodegradable waste is collected twice a week. The quantity of Bio-degradable waste generated and collected is between waste generated and collected is between 20MT-25MT per day which includes garden/horticulture waste.Construction debris collected is between 18-20 MT/day. The quantity of bio-degradable waste processed in the composting facilities is about 20MT per day. The Corporation has set up decentralised facilities at different location within city limits for processing of organic waste.
19	Bicholim	North Goa	Goa	15.02.14	Waste generated is 6 tonnes/day (approx) Compostable : 3 tonnes/day Inerts: 0.5 tonnes/day Recyclables Plastics: 0.5 tonnes/day Rags: 2.0 tonnes/day Quantity of waste littered: 0.2 tonnes.