



## INSPECTION REPORT – SWM RULES-2016

1.	Name of Municipality	Deesa Nagarpalika
2.	Taluka	Deesa
3.	District	Banaskantha
4.	Name of Chief Officer	Mr. Pankaj I. Barot (C.O.)- 9974650055
5.	Name and designation of person contacted	Mr. Pankaj I. Barot (C.O.)- 9974650055 & Mr. D.V. Parmar (Sanitary Clerk)
6.	Population as per 2011 census	1,11,160 Persons
7.	Waste generation per day (Tones /day)	@ 40 - 50 MT/Day of solid waste
8.	House to house collection system Implemented?	Yes
9.	Method of collection of waste from slums and squatter areas or localities including hotels, restaurants, office complexes and commercial areas	17 Nos of chhottahathi and 3 Nos of Eicher vehicles are provided on contract basis for collection and transportation of municipal solid waste. Dustbins are provided in commercial area.
10.	Method of waste collection from slaughter houses, meat and fish markets, fruit and vegetable markets	There is no slaughterhouse in Nagarpalika. Other waste is being disposed at dumping site.
11.	Has mixing of biomedical wastes and industrial wastes been noticed with MSW?	No
12.	Method of transportation of house hold waste to Community Bin/transportation vehicle	17 Nos of chhottahathi and 3 Nos of Eisher vehicles are provided on contract basis for collection and transportation of municipal solid waste. Dust bins are provided in commercial area.
13.	Whether horticultural and construction or demolition wastes or debris mixed with MSW or not? If not, what methods are adopted for collection and disposal?	Not mixed with MSW. C & D waste is used for land filling in low laying area.
14.	Is waste (garbage/dry leaves) being burned? If yes, give location	No
15.	Whether Stray animals are observed near waste storage facilities or not?	No stray animal is observed at solid waste dumping site, as boundary of said site is covered wall/fencing.
16.	Does the municipal authority notify the waste collection schedule and the likely method?	Yes, Door to door collection is carried on daily basis.
17.	Have Segregation facilities been developed ? If yes, give brief description	Segregation / processing plants for Legacy waste and presently generated MS Waste are provided separately.
18.	Storage of municipal solid waste (give size/ capacity of bin/container)	Yes, Door to door collection is carried on daily basis and dust bins is provided in commercial area.



19.	Transportation method of MSW (Give numbers of persons engaged, Number of vehicles used, MSW covered while transportation, Are vehicles over loaded? etc.)	17 Nos of chhottahathi and 3 Nos of Eicher vehicles are provided on contract basis for collection and transportation of municipal solid waste. Dustbins are provided in commercial area. Vehicle is covered during transportation. No over loading observed.
	<b>Processing of municipal solid wastes</b>	
20.	Is biodegradable waste treated by methods of composting/digestion)?	Vermi compost plant (@ 34 no's of compost bed), but during visit, found not in use.
21.	Is Incinerable waste disposed of by energy: recovery?	Yes
22.	Is Recyclable waste segregated and sent for recycling?	Yes, Plastic waste is segregated and processed from mix solid waste & sent to recycler.
23.	Brief details of design of land fill site	-----
24.	Disposal facilities of MSW. Is biodegradable waste allowed in land fill?	Yes, Solid waste is collected in closed compartment vehicle under door to door collection scheme, which is (Mix solid waste) dump at land fill site.
25.	Dimensions of land fill	-----
26.	Design Life of land fill site in years	-----
27.	<b>Facilities at the site</b>	
28.	Fenced or hedged and provided with proper gate to monitor incoming vehicles.	Fencing and compound wall is provided around dumping site.
29.	Approach and other internal roads provided and maintained to avoid dusting/ fugitive emissions.	Approach road is provided. Local body has provided internal road periphery of the site.
30.	Weigh bridge to measure quantity of waste brought at landfill site, fire protection equipments and other facilities provide.	Weighbridge, Security cabin, lighting & sanitation facility for worker are provided.
31.	Utilities such as drinking water (preferably bathing facilities for workers) and lighting arrangements for easy land fill operations when carried out in night hours provided	Drinking & sanitation facility are provided at solid waste dumping site by provided one bore well.
32.	Safety provisions	Yes, PPE are provided to worker.
33.	Specifications for land filling	--
34.	Compaction using land fill compactors/road rollers etc.	--
35.	Daily cover (soil/inert debris or construction material)	No
36.	During monsoon intermediate cover with proper compaction and grading provided? Proper drainage	No



	berms constructed to divert run off away from the active cell of the land fill provided? Brief details of final cover	
37.	Whether Storm water drains are diverted to minimize leachate?	No
38.	Whether Leachate collection and treatment facilities provided?	No
39.	Whether samples collected to check the ground water quality within 50 meters of the periphery of the land fill site during summer, monsoon and post monsoon periods from upstream and downstream of land fill?	No
40.	Details of installation of landfill gas control system including gas collection system.	No
41.	Is bad odor felt around land fill?	During visit, mild odour is felt in the premises of dumping site.
42.	Is ambient air quality monitoring at the land fill site and at the vicinity done two times in a year for town or cities having population between one and ten lakhs	No
43.	Details of plantation at land fill site.	Plantation is carried out at periphery of compound wall & at entry gate.
44.	Details of closure of land fill site and post closure care	--
45.	Whether composting facility provided?	Provided.
	Quantity of waste composted /day	--
	Quantity of compost generated/ day:	--
	Measures taken to prevent foul odor	No
46.	<p>Any other information:</p> <ul style="list-style-type: none"> <li>MSW facility of Deesa Nagarpalika is visited with reference to routine monitoring.</li> <li>Deesa Nagarpalika had requested, vide their letter dt. 19-03-22 for land allotment to the District Collector and reply in this regard was given to Chief Officer from Collector Office letter dt. 9-06-22. Further correspondence in this matter was also made from both the sides. All letters/correspondences made in this matter submitted by Deesa Nagarpalika was sent through e-mail on 13-04-2023.</li> <li>Nagarpalika is collecting solid waste from their jurisdiction through dedicated vehicle, which is (Mix solid waste) segregated at existing site.</li> <li>Separate Segregation / processing plants for Legacy waste and presently generated MS Waste are provided at site. i.e. M/s. Nagesh Corporation, Ahmedabad -for Legacy waste and M/s. Matru Energy Service Corporation, Vadodara for daily to daily waste. During visit, it is observed that processing of Legacy waste is temporary closed and processing of presently generated MS Waste is going on.</li> <li><b>For Legacy waste-</b> Nagarpalika has given work order for segregation / processing of Mix solid waste for legacy waste to M/s. Nagesh Corporation, Ahmedabad. They have installed</li> </ul>	



Trommel machines (2-nos). During visit, processing of legacy waste is temporary closed. As per the information furnished by contacted person during visit, they have processed total @ 2,57,000 MT of legacy waste and segregated plastic waste is sent to recycler i.e. M/s Neelam Recycling Solutions, Village Virol, Tal Mehmedabad, Dist. Kheda. During visit, stock of segregated plastic waste @ 1000 MT observed at site. Segregated biodegradable waste is used as manure by farmers and its stock @ 100 MT observed at dumping site. Segregated inert material is dumped in low-lying area outside dumping site.

- Till date they have lifted legacy waste ( for processing ) in area @ 19000 sq. mts. Out off that garden is developed in area @ 13000 sq. mts (with water sprinkler) and soil filling is carried out in area @ 6000 sq. mts. (for developing garden).
- **For daily to daily basis waste** ---Nagarpalika has also given separate work order for segregation / processing of Mix solid waste for presently generated day to day waste to M/s. Matru Energy Service Corporation, Vadodara and it is processed on daily to daily basis. They have installed pre-sorting plant (sorting & segregation machine), which is found in operation. During visit, @ 800 – 1000 MT stock of day-to-day waste is observed at site, it seems that M/s. Matru Energy Service Corporation, Vadodara is not completely segregation / processing of day to day generated waste. Manually segregated plastic waste @ 0.5 MT (packed in PP bags) observed, which is sent to recycler i.e. Dutt Polymer, Chansama, Dist. Patan. During visit, stock of segregated plastic waste from processing @ 700 MT observed at site, which is sent to Cement Industry, Sanchor, Rajasthan. Segregated biodegradable waste is used as manure by farmers and its stock @ 25 MT observed at dumping site during visit. Segregated inert material is dumped in low-lying area outside dumping site.

During visit, following written instruction is given to contacted person of Nagarpalika.

1. During visit, processing of legacy waste not in operation, clarify the matter.
2. During visit, stock of day-to-day waste is found at site, clarify the matter. Hence, segregation / processing of day-to-day waste regularly.
3. To submit details regarding disposal of segregated plastic waste generated from processing of solid waste.
4. To comply all the conditions of authorization and SWM Rules 2016.

Date: 20.12.2023

Place: Deesa

T.A. Trivedi

(S.O.)

R.H. Jivani

(S.O.)