

GOA STATE POLLUTION CONTROL BOARD

गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015. OHSAS 18001:2007 Certified Board)

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PART A

No. 9/1/21-PCB/Vol. XXIX/Tech/7956

30/07/2021


To,
The Chairman,
Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar,
DELHI- 110 0032.

ANNUAL REPORT ON SOLID WASTE MANAGEMENT RULES 2016 FOR THE YEAR 2020-2021

1.	Name of the State/Union territory	:	GOA
2.	Name & address of the State Pollution Control	:	GOA STATE POLLUTION CONTROL BOARD
3.	Number of local bodies responsible for management of solid wastes in the State/Union territory under these rules	:	205 NOS.
4.	No. of authorisation application received	:	Nil
5.	A Summary Statement on progress made by local body in respect of solid waste management.	:	Attached as Annexure-I
6.	A Summary Statement on progress made by local bodies in respect of waste collection, segregation, transportation and disposal.	:	Attached as Annexure-II
7.	A Summary Statement on progress made by local bodies in respect of Schedule II.	:	Attached as Annexure-III

Date: 29/7/2021

Place : SALIGAO- GOA


MEMBER SECRETARY
GOA STATE POLLUTION CONTROL BOARD

PART B

Sr. No.	Description	Nos.
1.	Towns/cities	
	(i) Total Number of towns/cities	14
	(ii) Total number of ULBs	14
	(iii) Number of Class I & class II cities/towns	
	(a) Nos. of Towns Class-I (more than 1,00,000 Population)	1
	(b) Nos. of Class-II Towns (50,000-99,000 Population)	0
2	Authorisation status (names/number)	
	(i) Number of Application received	0
	(ii) Number of Authorization granted	0
	(iii) Authorizations under scrutiny	0
3	SOLID WASTE Generation status	
	(i) Solid waste generation in the state (TPD)	226.87
	(ii) collected	218.87
	(iii) treated	197.47
	(iv) Landfilled/Dumpsite	22.05
4	Compliance to Schedule I of SW Rules (Number/names of towns/capacity)	
	(i) Good practices in cities/towns (Panaji, Pernem, Ponda, Bicholim, Sankhali, Quepem, Cuncolim, Sanguem & Valpoi)	09
	(ii) House to house collection (Panaji, Pernem, Ponda, Bicholim, Sankhali, Quepem, Canacona, Cuncolim, Curchorim-Cacora, Sanguem, Mapusa, Margao, Mormugao & Valpoi, Sanguem)	14
	(iii) Segregation (Panaji, Pernem, Ponda, Bicholim, Sankhali, Quepem, Canacona, Cuncolim, Curchorim-Cacora, Sanguem, Mapusa, Mormugao & Valpoi)	13
	(iv) Storage (Panaji, Pernem, Ponda, Bicholim, Sankhali, Quepem, Canacona, Cuncolim, Curchorim-Cacora, Sanguem, Mapusa, Margao, Mormugao & Valpoi)	14
	(v) Covered transportation (Panaji, Pernem, Ponda, Bicholim, Sankhali, Quepem, Canacona, Cuncolim, Curchorim-Cacora, Sanguem, Mapusa, Margao, Mormugao & Valpoi)	14

5. (i) Processing of SW (Number /names of towns/capacity)

(i) Solid waste processing facilities setup:

Sl. No.	Composting	Vermi-composting	Biogas	RDF/Pelletization
01	Pernem	NA	NA	NA
02	Bicholim	NA	NA	NA
03	Sankhali	NA	NA	NA
04	Mapusa	NA	NA	NA
05	CCP Panaji	NA	12TPD	NA
06	Valpoi	NA	NA	NA
07	Ponda	NA	NA	NA
08	Mormugao	NA	10 TPD	NA
09	Margao	NA	NA	NA
10	Curchorem - Cacora	NA	NA	NA
11	Sanguem	NA	NA	NA
12	Cuncolim	NA	NA	NA
13	Quepem	NA	NA	NA
14	Canacona	NA	NA	NA

(ii) Processing facility operational:

Sl. No.	Composting	Vermi-composting	Biogas	RDF/Pelletization
01	Bicholim	NA	NA	NA
02	Sankhali	NA	NA	NA
03	Mapusa	NA	NA	NA
04	Panaji	NA	YES	NA
05	Valpoi	NA	NA	NA
06	Ponda	NA	NA	NA
07	Mormugao	NA	YES	NA
08	Quepem	NA	NA	NA
09	Cuncolim	NA	NA	NA
10	Sanguem	NA	NA	NA
11	Margao	NA	NA	NA

12	Pernem	NA	NA	NA
13	Curcholem – Cacora	NA	NA	NA
14	Canacona	NA	NA	NA

(iii) Processing facility under installation/planned:

Sl. No.	Composting	Vermi-composting	Biogas	RDF/Peltization
i)	NIL	NIL	01(Margao)	NIL

(iv) Waste-to-Energy Plants: (Number/names of towns/capacity) -----01

Sl. No.	Plant Location	Status of operation	Power generation (MW)	Remarks
i)	Hindustan Waste Treatment Plant Pvt. Ltd. at Saligao, Bardez Goa	In Operation	0.6	The area comes under Panchayat jurisdiction.

6	Disposal of solid waste (number/names of towns/capacity):		
	(i) Landfill sites identified (Panaji, Ponda)		02
	(ii) Landfill constructed (Pernem, Bicholim, Sankhali, Quepem, Cuncolim, Canacona, Valpoi, Margao)		08
	(iii) Landfill under construction:		NIL
	(iv) Landfill in operation: (Pernem, Bicholim, Quepem, Cuncolim,)		04
	(v) Landfill exhausted (Canacona)		01
	(vi) Landfill capped		NIL
7	Solid Waste Dumpsites (number/names of towns/capacity):		
	(i) Total number of existing dumpsites (Mapusa, Curcholem-Cacora, Margao, Mormugao)		04
	(ii) Old dump (Bicholim, Pernem, Canacona & Cuncolim)		04
	(ii) Dumpsites reclaimed/capped		01
	(iii) Dumpsites converted to sanitary landfill		NIL

8 Monitoring at waste processing/Landfill sites:

Sl. No.	Name of facilities	Ambient Air	Ground water	Leachate Quality	Compost Quality	VOCs
i)	Pernem Municipal Council	-	✓	-	-	-
ii)	Bicholim Municipal Council	✓	-	-	-	-

iii)	Sankhali Municipal Council	✓	✓	-	-	-
iv)	Quepem Municipal Council	✓	✓	-	-	-
v)	Cuncolim Municipal Council	✓	✓	-	-	-
vi)	Canacona Municipal Council	-	✓	-	-	-
vii)	Corporation of the City of Panaji	-	-	✓	-	-
viii)	Valpoi Municipal Council	✓	-	-	-	-
ix)	Ponda Municipal Council	-	-	-	-	-
x)	Sanguem Municipal Council	-	-	-	-	-
xi)	Margao Municipal Council	-	-	✓	-	-
xii)	Curchorem- Cacora Municipal Council	-	-	-	-	-
xiii)	Mapusa Municipal Council	-	-	-	-	-
xiv)	Mormugao Municipal Council	✓	-	✓	-	-

9 **Status of Action Plan prepared by Municipalities.**

- (i) Total No. Of Municipalities-----14
- (iii) Number of Action Plan Submitted-----14

ANNEXURE I

IMPLEMENTATION SCHEDULE

Sr. No.	Name of Corporation/ Municipal Council/ Village Panchayat's	Setting up of waste processing, disposal facilities and material recovery facilities.	Monitoring the performance of waste processing and disposal facilities	Identification of landfill sites for future use and making site(s) ready for operation
1	Corporation of the City (CCP) of Panaji, Panaji -Goa.	The Goa State Pollution Control Board has granted authorization to the CCP for material recovery facility & composting station at P.T. sheet no. 56 chalta no. 6 and for setting up & Operation of waste processing facility at the following locations: (i) Behind SBI building at Patto Plaza. (ii) Near LIC Build. Adjacent to STP of PWD. (iii) Panaji Municipal Market.	✓	Does not have Landfill site.
2	Pernem Municipal Council, Pernem - Goa.	The Council has set up decentralized composting units for treatment of bio degradable waste and the construction of the landfill site is completed.	✓	Construction of Landfill site is completed.
3	Bicholim Municipal Council, Bicholim - Goa.	The Council has set up facility for treatment of bio-degradable waste and has completed construction of landfill site		Landfill is not in use.
5	Valpoi Municipal Council, Valpoi - Goa.	The Council has set up facility for treatment of bio-degradable waste.	✓	Landfill site constructed.

6	Ponda Council, Ponda – Goa.	Municipal Council, Ponda – Goa.	The Council has set up decentralized composting units within the city		Not yet set up.
7	Mapusa Council	Municipal Council	The Council has set up decentralized composting units within the city and a centralized unit at Assagao Plateau.		Not yet set up.
8	Mormugao Council, Mormugao – Goa.	Municipal Council, Mormugao – Goa.	The Council has installed 10 ton capacity bio-gas plant for treatment of bio degradable waste	✓	Not yet set up.
9	Margao Council, Margao – Goa.	Municipal Council, Margao – Goa.	The garbage management plant is in operation	✓	Landfill is not in use.
10	Quepem Council, Quepem – Goa.	Municipal Council, Quepem – Goa.	The Construction work of setting up treatment facility for bio-degradable waste and landfill site is completed	✓	Construction of Landfill site is completed. Site not used.
11	Curchorem-Cacora Municipal Council, Curchorem – Goa.	Municipal Council, Curchorem – Goa.	The Council has constructed decentralized composting units for treating of bio degradable waste but are not properly functional		Not yet set up.
12	Cuncolim Council, Cuncolim – Goa.	Municipal Council, Cuncolim – Goa.	The Council has set up facility for treatment of bio-degradable waste and has completed construction of landfill site	✓	Construction of Landfill site is completed. Site not used.
13	Sanguem Council, Sanguem – Goa.	Municipal Council, Sanguem – Goa.	The Council has set up decentralized composting units for treatment of bio degradable waste.		Site identified and land acquisition in process.
14	Canacona Council	Municipal Council	Plant and machinery gutted due to fire.	✓	Landfill site is full and covered with mud.
15	Village Panchayat's		The state has 191 village panchayat's out of which 182 nos. of village panchayat has been granted approval by Board for setting up material recovery facility (MRF)		Not Applicable.

ANNEXURE-II

MANAGEMENT OF SOLID WASTES

Sr.No	Name of Municipal Council/Corporation	Collection of Solid waste	Segregation of Solid Wastes	Transportation of Solid wastes	Disposal of Solid wastes
1	Corporation of City of Panaji	Complied	Complied	Complied	Partly Complied
2	Pernem Municipal Council	Complied	Complied	Complied	Partly Complied
3	Bicholim Municipal Council	Complied	Complied	Complied	Partly Complied
4	Sanquelim Municipal Council	Complied	Complied	Complied	Partly Complied
5	Valpoi Municipal Council	Complied	Complied	Complied	Partly Complied
6	Ponda Municipal Council	Complied	Complied	Complied	Partly Complied
7	Mapusa Municipal Council	Complied	Partly Complied	Complied	Partly Complied
8	Mormugao Municipal Council	Complied	Partly Complied	Complied	Partly Complied
9	Margao Municipal Council	Complied	Partly Complied	Complied	Partly Complied
10	Quepem Municipal Council	Complied	Complied	Complied	Partly Complied
11	Curchorem-Cacora Municipal Council	Complied	Partly Complied	Complied	Partly Complied
12	Cuncolim Municipal Council	Complied	Partly Complied	Complied	Partly Complied
13	Sanguem Municipal Council	Complied	Complied	Complied	Partly Complied
14	Canacona Municipal Council	Complied	Partly Complied	Complied	Partly Complied
15	All Village Panchayat's *				

*Only dry waste collected by 191 Village Panchayat's is sent to baling stations established by Goa Waste Management Corporation (GWMC) wherein it is baled and sent for co-incineration in cement kilns. Also 4 village panchayat's has set up baling facility.

ANNEXURE III

STANDARDS FOR COMPOSTING, TREATED LEACHATES AND INCINERATION

Sr. No.	Name of Municipal Council/Corporation	Establishment of Composting Plant
1	Corporation of City of Panaji	Has established decentralized composting stations
2	Pernem Municipal Council	Has established composting stations
3	Bicholim Municipal Council	Has established mechanized composting plant
4	Sanquelim Municipal Council	Has established mechanized composting plant
5	Valpoi Municipal Council	Has established a composting plant
6	Ponda Municipal Council	Has established composting stations
7	Mapusa Municipal Council	Has established composting stations
8	Mormugao Municipal Council	Has established a composting plant /Biogas plant
9	Margao Municipal Council	Has established integrated plant.
10	Quepem Municipal Council	Has established composting units
11	Curchorem-Cacora Municipal Council	Has established decentralized composting units
12	Cuncolim Municipal Council	Composting is carried out using windrows method
13	Sanguem Municipal Council	Has established composting stations
14	Canacona Municipal Council	Has established composting stations