

# GOA STATE POLLUTION CONTROL BOARD

गोंय राज्य प्रदुशण नियंत्रण मंडळ

(An ISO 9001-2008 Certified Board)

Phone Nos : 91-832-2438567, 2438528  
2438563, 2438550

Tel / Fax No. : 0832-2438528



Email id's :

Member Secretary, GSPCB - ms-gspcb.goa@nic.in  
Environment Engineer, GSPCB - ee-gspcb.goa@nic.in  
Scientist, GSPCB - scientist-gspcb.goa@nic.in  
Asst. Env Engineer, GSPCB - aee-gspcb.goa@nic.in  
Asst. Law Officer, GSPCB - alo-gspcb.goa@nic.in

No. 8/28/99-PCB/ 5886

27 /11/2014

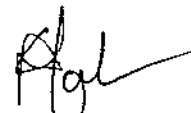
To,  
The Chairman,  
Central Pollution Control Board,  
(Ministry of Environment and Forests )  
Government of India,  
Parivesh Bhawan, East Arjun Nagar,  
DELHI- 110 0032.

## ANNUAL REPORT OF MUNICIPAL SOLID WASTE FOR 2013-2014

1.	Name of the State/Union territory	:	GOA
2.	Name & address of the State Pollution Control	:	GOA STATE POLLUTION CONTROL BOARD
3.	Board/Pollution Control Committee Number of municipal authorities responsible for management of municipal solid wastes in the State/Union territory under these rules	:	14 NOS.
4.	Checklist for filling annual report on Municipal Solid Waste	:	Attached as Annexure-I
5.	A Summary Statement on progress made by municipal authorities in respect of implementation of Schedule I [rule 4(3)]	:	Attached as Annexure-II
6.	A Summary Statement on progress made by municipal authorities in respect of implementation of Schedule II [rules 6(1) and (3), 7(1)]	:	Attached as Annexure-III
7.	A Summary Statement on progress made by municipal authorities in respect of implementation of Schedule III [rules 6(1) and (3), 7(2)]	:	Attached as Annexure-IV
8.	A summary statement on progress made by municipal authorities in respect of implementation of Schedule IV [rules 6(1) and (3), 7(2)]	:	Attached as Annexure-V

Date: 27<sup>th</sup> November 2014

Place : PANAJI- GOA

  
MEMBER SECRETARY  
GOA STATE POLLUTION CONTROL BOARD

ISSUED

**CHECK LIST FOR FILLING ANNUAL REPORT ON MUNICIPAL SOLID WASTE  
MANAGEMENT FOR THE YEAR, 2013 - 14**

Sr. No.	Description	Nos.
1.	Total Number of Local Bodies in the State (during 2012-13)	14
2.	Number of Towns in the state (2012-13)	
	(i) Nos. of Towns Class-I ( more than 1,00,000 Population)	2
	(ii) Nos. of Class-II Towns ( 50,000-99,000 Population)	1
	(iii) Nos. of Class-III Towns ( 20,000-49,000 Population)	4
	(iv) Class IV Towns (10,000-19,000 Population)	4
	(v) Class V towns ( 5,000-9,999 Population)	3
	(vi) Class VI Towns (<5,000 Population)	0
	(vii) Unclassified Towns	0
	Total _____	14
3	Authorization for MSW Management (during 2013-14)	
	(i) Total Nos. of Application received from Urban Local Bodies (ULBs)	9
	(ii) Authorization granted to ULBs	5
	(iii) Authorization not granted	0
	(iv) Authorization under process	0
4	Nos. of Towns being implemented Schedule II of the MSW Rules (i.e. Collection, segregation, storage, transportation)	
	(i) Nos. Towns taken initiative	12
	(ii) Towns 100% complied	0
	(iii) Nos of Towns partially complied <b>(Panaji, Pernem, Bicholim, Sanquelim, Valpoi, Ponda, Mapusa, Mormugao, Margao, Quepem, Cuncolim &amp; Canacona)</b>	12
	(iv) Nos. of Towns not complied	2
	(v) Names of Towns where good initiative <b>(Panaji, Pernem, Bicholim, Sanquelim, Valpoi, Ponda, Mapusa, Mormugao, Margao, Quepem, Cuncolim &amp; Canacona.)</b>	
5	Nos. of Waste processing plants (treatment facilities) (Specify nos. whether mechanical compost/vermicompost/pit compost/RDF/Bio-gas/Incineration/etc.	
	(i) Plants Operational <b>(Pernem, Bicholim, Sanquelim, Margao, Quepem, Cuncolim &amp; Canacona)</b>	7

	(ii) Plants proposed (Panaji, Valpoi)	2
6	Nos of Landfill sites	
	(i) Nos. of open dumping (Mapusa, Mormugao, Margao, Sanguem, Curchorem)	5
	(ii) Nos of Sanitary Landfill Operational (Pernem, Bicholim, Sanquelim, Quepem, Cuncolim & Canacona)	5
	(iii) Nos. of landfill ready, waiting for use	0
	(iv.) Nos. of landfill being constructed	1
	(v.) Nos. of landfill site identified (Panaji, Ponda, Margao)	3
7	Waste-to-Energy projects	
	(i) WTE project operational	0
	(ii) WTE project being constructed	0
	(iii) WTE project under plan	0
8	Any other information	Attached as Annexure-V

Annexure-1

SCHEDULE I  
[rules 4(2) and (3)]  
IMPLEMENTATION SCHEDULE

Sr. No.	Name of Municipal Council/Corporation	Setting up of waste processing and disposal facilities	Monitoring the performance of waste processing and disposal facilities	Improvement of existing landfill sites as per provisions of these rules	Identification of landfill sites for future use and making site(s) ready for operation
1	NORTH GOA DISTRICT Corporation of City of Panaji, Panaji - Goa.	<p>The Goa State Pollution Control Board has granted authorization to the CCP for setting up Municipal Waste Management facility at sy. no. 31/1, 34/1-C-1 at Goalim - Moula village of Tiswadi Taluka.</p> <p>The Goa State Pollution Control Board has granted authorization to the CCP for Disposal of construction debris &amp; tree pruning (Horticulture works) at sy. no. 20 (Sub Div. 1-I, 3-A-I, 2-A), at Bainguinim village of Tiswadi Taluka.</p> <p>Authorization for "Integrated MSW Management Facility" at sy. No. 20/2(P) &amp; 20/3-A(P), at Bainguinim village of Tiswadi Taluka.</p> <p>Authorization (renewal) granted for Dry recyclable material sorting centre (material recovery facility) and composting station at P. T. sheet no. 56, chalta no. 6 of Panaji city, Panaji - Goa.</p> <p>Authorization (renewal) granted for Setting up &amp; Operation of waste processing facility</p>	Monitoring is not carried out as site has not been established.	Not carried out	Site identified. Authorization issued by GSPCB and land is already acquired.

		and setting up & operation of disposal facility at following locations:- (i) Behind SBI building at Patto Plaza and curing system near the Mandovi bridge at the existing composting facility. (ii) Near LIC building adjacent to STP of PWD. (iii) Panaji Municipal Market. CCP has set up decentralized composting units in Housing Societies as well as in Municipal market area and public gardens to treat the bio degradable waste. The CCP has also setup sorting centers at St. Inez, Panaji, near Hindu Crematorium.				Construction of Landfill site is completed. Total area utilized is 2200 sq.mts for construction of the landfill site.
2	Pernem Municipal Council, Pernem - Goa.	The Council has set up decentralized composting units for treatment of bio degradable waste. The Council has set up 5 metric tons per day garbage process unit with shredding and screening machine. Also 24 nos. of composting stations are set up having a capacity of 86 cu.m within the Municipal jurisdiction.	Monitoring is not carried out.	Site newly set-up	Site selected is in use.	
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	Monitoring is carried out.	Site newly set-up	Site selected is in use.	
4	Sanquelim Municipal Council, Sanquelim - Goa.	The Council has set up facility for treatment of bio-degradable waste and has completed construction of landfill site.	Monitoring is carried out.	Not carried out	Construction of Landfill site is in progress.	
5	Valpoi Municipal Council, Valpoi - Goa.	The Council has set up decentralized composting units for treatment of bio degradable waste.	Monitoring is not carried out as site has not been established.	Not carried out	Site identified/authorization issued by GSPCB and land is already acquired.	
6	Ponda Municipal Council, Ponda - Goa.	The Council has set up few decentralized composting units within the city, however, no facilities have been set up yet at the site due to opposition from the locals.	Monitoring is not carried out as site has not been established.	Not carried out	Site identified/authorization issued by GSPCB and land is already acquired.	
7	Mapusa Municipal Council	The Council has set up few decentralized	Monitoring is not carried out	Not carried out.	Site identified/authorization	

		composting units within the city. 09 Tonnes in composting units at Assagao Plareau site & at various places in all wards & 1.5 MT through Organic Waste Converter at Fish market, Mapusa.	out as site has not been established.		issued by GSPCB. The council has acquired the land admeasuring 32050.00Sq.mt. at Cunchelim for proposed setting up of the waste management facility and the construction of compound wall for the said acquired land is in progress.
	<b>SOUTH GOA DISTRICT</b>				
8	Mormugao Municipal Council, Mormugao - Goa.	The Council has established a treatment facility for treatment of bio degradable waste	Monitoring is not carried out as site has not been established.	Not carried out	Not yet set up
9	Margao Municipal Council, Margao - Goa.	The garbage management plant is in operation	Monitoring is not carried out as site has not been established.	Construction of the sanitary landfill is in progress.	Site identified/authorization issued by GSPCB and land is already acquired.
10	Quepem Municipal Council, Quepem - Goa.	The Construction work of setting up treatment facility for bio-degradable waste and landfill site is completed	Monitoring is not carried out	Not carried out	Site identified/authorization issued by GSPCB and land is already acquired.
11	Curchorem-Cacora Municipal Council, Curchorem - Goa.	The Council has constructed decentralized composting units for treating of bio degradable waste but are not properly functional. A temporary landfill site is in use.	Monitoring is not carried out as site has not been established.	Not carried out	Site identified/authorization issued by GSPCB and land acquisition in process.
12	Cuncolim Municipal Council, Cuncolim - Goa.	The Council has set up facility for treatment of bio-degradable waste and has completed construction of landfill site	Monitoring is carried out.	Site newly set-up	Site selected is in use.
13	Sanguem Municipal Council, Sanguem - Goa.	The Council has set up decentralized composting units for treatment of bio degradable waste but are not properly functional.	Monitoring is not carried out as site has not been established.	Not carried out	Site identified/authorization issued by GSPCB and land acquisition in process.
14	Canacona Municipal Council	The Council has set up facility for treatment of bio-degradable waste and has completed construction of landfill site.	Monitoring carried out by the Council	Site newly set-up	Site selected is in use.

Annexure-II

**SCHEDULE II**  
**[rules 6(1) and (3), 7(1)]**  
**MANAGEMENT OF MUNICIPAL SOLID WASTES**

Sr.No.	Name of Municipal Council/Corporation	Collection of Municipal Solid waste	Segregation of Municipal Solid Wastes	Storage of Municipal Solid wastes	Transportation of Municipal Solid wastes	Processing of Municipal Solid wastes	Disposal of Municipal Solid wastes
	NORTH GOA DISTRICT						
1	Corporation of City of Panaji	Complied	Complied	Complied	Complied	Partly Complied	Partly Complied
2	Pernem Municipal Council	Partly Complied	Not complied	Not complied	Complied	Partly Complied	Partly Complied
3	Bicholim Municipal Council	Partly Complied	Partly Complied	Complied	Complied	Partly Complied	Partly Complied
4	Sanquelim Municipal Council	Partly Complied	Partly Complied	Complied	Complied	Partly Complied	Partly Complied
5	Valpoi Municipal Council	Partly Complied	Not complied	Partly Complied	Partly Complied	Partly Complied	Partly Complied
6	Ponda Municipal Council	Complied	Complied	Not complied	Complied	Partly Complied	Partly Complied
7	Mapusa Municipal Council	Complied	Partly complied	Complied	Complied	Partly complied	Partly complied
	SOUTH GOA DISTRICT						
8	Mormugao Municipal Council	Partly Complied	Partly Complied	Complied	Complied	Partly Complied	Partly Complied
9	Margao Municipal Council	Complied	Partly Complied	Complied	Complied	Partly Complied	Partly Complied
10	Quepem Municipal Council	Complied	Complied	Partly Complied	Complied	Partly Complied	Partly Complied
11	Curchorem-Cacora Municipal Council	Partly Complied	Partly Complied	Partly Complied	Complied	Not complied	Not complied
12	Cuncolim Municipal Council	Complied	Complied	Complied	Complied	Partly complied	Partly Complied
13	Sanguem Municipal Council	Partly complied	Partly Complied	Not complied	Complied	Not complied	Not complied
14	Canacona Municipal Council	Complied	Partly Complied	Complied	Complied	Partly complied	Partly Complied

**Annexure-III**  
**SCHEDULE III**  
**[rules 6(1) and (3), 7(2)]**  
**SPECIFICATIONS FOR LANDFILL SITES**

Sr.No.	Name of Municipal Council/Corporation	Identification of Site/Issued Authorization by the GSPCB	Construction of Landfill Site
1	NORTH GOA DISTRICT Corporation of City of Panaji	Has identified site & also been issued authorization by the GSPCB	Has not established a landfill site.
2	Pernem Municipal Council	Has identified site & also been issued authorization by the GSPCB	Landfill site constructed.
3	Bicholim Municipal Council	Has identified site & also been issued authorization by the GSPCB	Has established a landfill site.
4	Sanquelim Municipal Council	Has identified site & also been issued authorization by the GSPCB	Has established a landfill site.
5	Valpoi Municipal Council	Has identified site & also been issued authorization by the GSPCB	Construction of landfill site is in progress.
6	Ponda Municipal Council	Has identified site & also been issued authorization by the GSPCB	Has not established a landfill site.
7	Mapusa Municipal Council	Has identified site & also been issued authorization by the GSPCB	Has not established a landfill site.
8	SOUTH GOA DISTRICT Mormugao Municipal Council	Has identified site & also been issued authorization by the GSPCB	Has not established a landfill site.
9	Margao Municipal Council	Has identified site & also been issued authorization by the GSPCB	Construction of landfill site is in progress.
10	Quepem Municipal Council	Has identified site & also been issued authorization by the GSPCB	Has established a landfill site.
11	Curchorem-Cacora Municipal Council	Has identified site & also been issued authorization by the GSPCB	Has established a temporary landfill site.
12	Cuncolim Municipal Council	Has identified site & also been issued authorization by the GSPCB	Has established a landfill site.
13	Sanguem Municipal Council	Has identified site & also been issued authorization by the GSPCB	Has not established a landfill site.
14	Canacona Municipal Council	Has identified site & also been issued authorization by the GSPCB	Has established a temporary landfill site.



806k

Annexure-IV

**SCHEDULE IV**  
**[rules 6(1) and (3), 7(2)]**  
**STANDARDS FOR COMPOSTING, TREATED LEACHATES AND INCINERATION**

Sr. No.	Name of Municipal Council/Corporation	Establishment of Composting Plant
	<b>NORTH GOA DISTRICT</b>	
1	Corporation of City of Panaji	Has established decentralized composting stations
2	Pernem Municipal Council	Has established of 24 Nos. of 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 about 2 nos of composting stations
6	Ponda Municipal Council	Has established composting stations
7	Mapusa Municipal Council	Has established composting stations
	<b>SOUTH GOA DISTRICT</b>	
8	Mormugao Municipal Council	Has established a composting plant
9	Margao Municipal Council	Has established integrated plant
10	Quepem Municipal Council	Has established composting units
11	Curchorem-Cacora Municipal Council	No composting being carried out.
12	Cuncolim Municipal Council	Composting is carried out
13	Sanguem Municipal Council	No composting being carried out
14	Canacona Municipal Council	Has established composting stations

## Annexure-V

### **Brief about initiatives related to Solid Waste Management**

In order to provide directions and to implement various measures towards resolving the solid waste management problems affecting the State of Goa, a High Level Task Force (HLTF) headed by the Hon'ble Chief Minister of Goa was constituted in the State vide an Order of the Department of Science, Technology and Environment dated 08<sup>th</sup> November 2012. In addition, a Monitoring-cum-Working Committee was constituted vide Order dated 09.03.2011 in order to support, consolidate and assist in the activities of various Govt. Departments, local Panchayati Raj Institutions, NGOs/VGOs who are working in the field of Solid Waste Management besides monitoring the enforcement of the Goa Non-Biodegradable Garbage (Control) Act 1996 and Rules 1997, the Plastic Waste (Management and Handling) Rules 2011.

The Solid Waste Management Cell was constituted under the Department of Science & Technology in order to provide secretarial assistance to the Monitoring-cum-Working Committee and also to perform all tasks related to setting up of Solid Waste Management Facilities in Calangute and Cacora.

The Monitoring-cum-Working Committee entered into a Memorandum of Understanding (MoU) on 5<sup>th</sup> June 2013 with M/s Vasavadatta Cement, Sedam, Karnataka for scientific disposal of plastic waste and other non-recyclable combustible waste through co-processing in Cement Kilns. As per this MoU, the Monitoring-cum-Working Committee is supposed to set up a strategy for collection, segregation and delivery of agreed quantity of plastic waste to M/s Vasavadatta Cement, Sedam, Karnataka for further disposal through co-processing in the cement kiln.