

GOVERNMENT OF INDIA  
MINISTRY OF URBAN DEVELOPMENT

LOK SABHA

UNSTARRED QUESTION NO. 4454

TO BE ANSWERED ON MARCH 29, 2017

WASTE MANAGEMENT

No. 4454            SHRI DILIP PATEL:

Will the Minister of URBAN DEVELOPMENT be pleased to state:

(a) the details of waste-generate in Gujarat during the last three years and the current year so far, city-wise; and

(b) the details of projects undertaken for waste management in Gujarat during the above period along with the current status of these projects, city-wise?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF URBAN DEVELOPMENT  
(RAO INDERJIT SINGH)

(a): The details of city-wise waste generated in Gujarat during the last three years and the current year are at Annexure-I.

(b): The details of projects undertaken for waste management in Gujarat are at Annexure-II.

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ANNEXURE REFERRED TO IN REPLY TO LOK SABHA UNSTARRED QUESTION NO.4454 FOR ANSWER ON 29.03.2017

ANNEXURE-I

The details of Waste generated in Gujarat during the last three years and the current year so far city-wise.

Sl. No.	City Name	Total Waste Generated (TPD)				
		2013	2014	2015	2016	2017
1	Ahmedabad	2416	3021	3776	4720	5664
2	Bhavnagar	114	143	178	223	268
3	Gandhinagar	48	60	75	93	112
4	Jamnagar	171	214	267	334	401
5	Junagadh	68	84	106	132	158
6	Rajkot	293	366	457	572	686
7	Surat	922	1152	1440	1800	2160
8	Vadodara	627	784	980	1225	1470
9	Anand	31	38	48	60	72
10	Bharuch	46	58	72	90	108
11	Botad	16	20	26	32	38
12	Gandhidham	37	46	57	72	86
13	Godhara	23	29	36	45	54
14	Jetpur	20	26	32	40	48
15	Kalol	19	24	30	37	45
16	Mehsana	28	35	44	55	66
17	Morbi	23	29	36	45	54
18	Nadiad	47	59	74	92	110
19	Navsari	45	56	70	88	105
20	Palanpur	28	35	44	55	66
21	Patan	13	16	20	25	30
22	Porbandar	28	35	44	55	66
23	Surendranagar	42	53	66	83	99
24	Valsad	22	27	34	43	51
25	Vapi	32	40	50	63	76
26	Veraval	27	33	42	52	62
27	Amreli	23	29	36	45	54
28	Anjar	15	19	23	29	35
29	Ankleshwar	11	14	17	22	26
30	Bardoli	10	12	15	19	23
31	Bhuj	32	39	49	62	74
32	Bilimora	10	12	16	20	23
33	Borsad	8	11	13	17	20
34	Dabhoi	5	7	8	10	12
35	Dahod	19	23	29	37	44
36	Deesa	10	13	16	20	24
37	Dholka	18	22	28	35	41

Sl. No.	City Name	Total Waste Generated (TPD)				
		2013	2014	2015	2016	2017
38	Dhoraji	13	16	20	25	30
39	Dhrangadhra	7	9	11	14	16
40	Gondal	19	24	30	38	46
41	Himmatnagar	20	25	31	39	46
42	Kadi	12	15	19	24	28
43	Keshod	10	13	16	21	25
44	Khambhat	11	13	17	21	25
45	Mahuva	14	17	21	27	32
46	Mangrol	14	17	22	27	32
47	Modasa	6	8	10	12	14
48	Okha	10	13	16	20	24
49	Palitana	13	16	20	25	30
50	Petlad	10	13	16	20	24
51	Savarkundla	7	9	11	14	17
52	Siddhpur	9	12	15	19	22
53	Una	10	12	15	19	22
54	Unjha	6	7	9	11	13
55	Upleta	7	9	11	14	17
56	Vadhvan	9	11	14	17	20
57	Vijalpore	10	13	16	21	25
58	Viramgam	8	10	12	16	19
59	Visnagar	12	16	19	24	29
60	Bagasra	6	8	10	12	14
61	Balasinor	4	5	6	8	10
62	Bavla	4	5	6	8	10
63	Bhachau	6	7	9	11	13
64	Chaklasi	3	4	5	6	8
65	Chhaya	8	10	12	15	18
66	Dehgam	6	7	9	11	13
67	Dhandhuka	6	7	9	11	13
68	Dwarka	10	13	16	20	24
69	Gadhda	3	4	5	6	7
70	Gariyadhar	4	5	6	8	9
71	Halol	5	6	8	10	12
72	Idar	3	4	4	6	7
73	Jafrabad	3	4	5	6	7
74	Jambusar	5	6	8	10	11
75	Jasdan	6	8	10	12	14
76	Jhalod	3	3	4	5	6
77	Kapadvanj	7	8	10	13	16
78	Karamsad	6	7	9	12	14
79	Karjan	4	5	6	8	10
80	Khambhaliya	9	11	13	17	20
81	Khed Brahma	4	5	6	8	9
82	Kodinar	8	10	13	16	19
83	Limbdi	8	10	12	15	18

Sl. No.	City Name	Total Waste Generated (TPD)				
		2013	2014	2015	2016	2017
84	Lunavada	6	8	10	12	14
85	Manavadar	6	8	10	12	14
86	Mandavi	9	12	15	19	22
87	Mansa	7	9	11	14	17
88	Mehmadabad	5	6	7	9	11
89	Padra	5	6	7	9	11
90	Pardi	4	5	6	7	9
91	Radhanpur	6	8	10	13	15
92	Rajpipla	7	9	11	14	17
93	Rajula	6	8	10	12	15
94	Ranavav	9	11	14	17	21
95	Salaya	5	6	7	9	11
96	Sanand	9	12	14	18	22
97	Sihor	9	12	14	18	22
98	Talaja	5	6	8	10	12
99	Thangadh	7	9	11	14	16
100	Umreth	5	6	8	10	12
101	V.Vidyanagar	5	6	8	10	11
102	Vadnagar	3	3	4	5	6
103	Vyara	7	9	11	14	16
104	Wankaner	7	8	10	13	15
105	Amod	3	3	4	5	6
106	Anklav	2	2	3	3	4
107	Babra	3	4	5	6	7
108	Bantawa	2	2	2	3	4
109	Baravala	3	3	4	5	6
110	Bareja	4	5	7	8	10
111	Bayad	3	3	4	5	6
112	Bhabhar	4	5	6	8	9
113	Bhanvad	2	2	3	4	4
114	Bhayvadar	3	3	4	5	6
115	Boriyavi	3	3	4	5	6
116	Chalal	2	3	3	4	5
117	Chanasma	2	2	3	3	4
118	ChhotaUdaipur	3	3	4	5	6
119	Chorvad	6	8	10	12	15
120	Chotila	4	5	6	8	9
121	Dakor	5	7	9	11	13
122	Damnagar	2	2	3	4	4
123	DevagadhBariya	4	5	6	8	10
124	Dhanera	5	6	8	10	12
125	Dharampur	4	5	7	8	10
126	Dhrol	4	5	6	8	10
127	Gandevi	3	3	4	5	6
128	Halvad	4	4	6	7	8
129	Harij	4	4	6	7	8

Sl. No.	City Name	Total Waste Generated (TPD)				
		2013	2014	2015	2016	2017
130	Jamjodhpur	4	5	6	7	9
131	Jamraval	3	4	4	6	7
132	Kaalol	6	8	10	13	15
133	Kalavad	3	4	5	6	7
134	Kanjari	3	4	5	6	8
135	Kansad	2	2	3	3	4
136	Kathlal	5	6	8	10	11
137	Kheda	4	4	6	7	8
138	Kheralu	3	4	5	7	8
139	Kutiyana	3	3	4	5	6
140	Lathi	2	3	4	5	5
141	Mahudha	3	4	5	6	7
142	Maliyamiyana	3	4	4	5	5
143	Mandavi_S	3	3	4	5	6
144	Oad	4	4	6	7	8
145	Patdi	2	3	3	4	5
146	Pethapur	4	5	6	8	10
147	Prantij	4	4	6	7	8
148	Rapar	5	6	7	9	11
149	Santrampur	3	4	5	6	7
150	Savri	3	3	4	5	6
151	Shahera	4	4	6	7	8
152	Sikka	6	8	10	12	15
153	Sojitra	3	3	4	5	6
154	Songadh	3	4	5	7	8
155	Sutrapada	3	4	5	7	8
156	Talala	3	4	5	7	8
157	Talod	2	2	3	4	4
158	Tarsadi	3	4	5	7	8
159	Thara	3	3	4	5	6
160	Tharad	4	4	6	7	8
161	Thasra	3	3	4	5	6
162	Umargam	5	6	8	10	12
163	Vadali	4	5	6	8	9
164	Vallabhipur	3	3	4	5	6
165	Vanthali	2	2	2	3	4
166	Vijapur	3	3	4	5	6
167	Visavadar	2	2	2	3	4
168	Sachin	12	15	17	21	25
169	Kadodara	12	14	17	20	24
170	Bopal-Ghuma	23	28	33	40	48
	Total	6098	7620	9522	11899	14278

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ANNEXURE-II

The details of projects undertaken for waste management in Gujarat during the above period along with the current status to these projects, city-wise.

Sl. No.	Name of the City	Municipal waste feeding capacity (MT/D)
1	Deesa	17.5
2	Tharad	5
3	Kadi	10
4	Kheralu	5
5	Unja	10
6	Vadnagar	5
7	Vijapur	5
8	Visnagar	12.5
9	Chanasma	2.5
10	Harij	2.5
11	Patan	20
12	Radhanpur	7.5
13	Siddhapur	10
14	Himatnagar	10
15	Idar	5
16	Khedbrahma	5
17	Modasa	10
18	Pratij	5
19	Talod	2.5
20	Vadali	2.5
21	Bayad	2.5
22	Bagasara	7.5
23	Chalala	2.5
24	Lathi	2.5
25	Savarkundala	12.5
26	Gadhada	5
27	Gariyadhar	7.5
28	Mahuva	12.5
29	Talaja	5
30	Bhanvad	2.5
31	Dhrol	5
32	Dwarka	7.5

Sl. No.	Name of the City	Municipal waste feeding capacity (MT/D)
33	Jam Jodhapur	5
34	Jam Khambhaliya	7.5
35	Kalavad	5
36	Salaya	5
37	Bantva	2.5
38	Chorvad	5
39	Kodinar	7.5
40	Manavadar	5
41	Una	10
42	Vanthali	2.5
43	Visavadar	2.5
44	Kutiyana	2.5
45	Porbandar	40
46	Ranavav	5
47	Bhayavadar	2.5
48	Gondal	12.5
49	Jasdan	7.5
50	Morbi	40
51	Upleta	10
52	Wankaner	7.5
53	Dhrangadhra	12.5
54	Limbdi	7.5
55	Suredranagar	40
56	Thangadh	7.5
57	Vadhwan	12.5
58	Anjar	12.5
59	Bhachau	5
60	Mandvi	7.5
61	Rapar	5
62	Ankleshwar	15
63	Jambusar	7.5
64	Bardoli	10
65	Sonagadh	5
66	Dharampur	2.5
67	Pardi	5
68	Vapi	17.5
69	Bavla	5
70	Dhandhuka	5
71	Viramgam	10
72	Ankalav	2.5
73	Boriavi	2.5
74	Karamasad	5
75	Khambhat	12.5

Sl. No.	Name of the City	Municipal waste feeding capacity (MT/D)
76	Ode	2.5
77	Devgadh Bariya	2.5
78	Dahegam	7.5
79	Kalol	17.5
80	Mansa	5
81	Balasinor	7.5
82	Chaklasi	7.5
83	Dakor	5
84	Kapadvanj	7.5
85	Kheda	5
86	Mehmdavad	7.5
87	Rajpipla	7.5
88	Godhra	40
89	Halol	7.5
90	Kaalol	5
91	Dabhoi	10
92	Karjan	5
93	Padra	7.5
		782.5



Status of Gujarat State: Solid Waste Management

Sl. No.	Municipal Corporation/ ULBs	Approximate Total Waste Generated (TPD)	Approximate Waste to Processing (TPD)	Waste to Processing ( in TPD)				Waste to Energy ( under commissioning stage )	Proposed Eletricity Generation (in MW)	Remarks
				Vermi Composting	Mechanical Composting	Bio methanation	RDF Composting			
1	Ahmedabad Municipal Corporation	4000 Including 300 TPD C & D Waste	1252.00	0.00	302.00	0.00	650.00	3000 TPD(EOI to Abellon, Essel, JITF for WTE projects)	45.00	Out of 4000 TPD, Daily collection of 300 Tones of C & D Waste which is converted into recyclables by AMC under the PPP mode.
2	Vadodara Municipal Corporation	1200.00	200.00	0.00	0.00	200.00	0.00	900-1000 TPD	8.00	MoU done with Finish Waste Management Consortium for Waste Management Park during Vibrant Gujarat-2015. Proposed Year of Commencement is expected to be in the year 2018.

Sl. No.	Municipal Corporation/ ULBs	Approximate Total Waste Generated (TPD)	Approximate Waste to Processing (TPD)	Waste to Processing ( in TPD)				Waste to Energy ( under commissioning stage )	Proposed Electricity Generation (in MW)	Remarks
				Vermi Composting	Mechanical Composting	Bio methanation	RDF Composting			
3	Surat Municipal Corporation	1600.00	200.00			200.00		1000 TPD	10.00	Another 600 TPD and 500 TPD Waste to Energy plants are also planned on EPC basis.
4	Rajkot Municipal Corporation	535.00	0.00	0.00	0.00	0.00	0.00	350 TPD	2.00	At present RMC has entered into an agreement with Strot and Rochem Separation System India Pvt. Ltd. to generate 4 MW electricity from MSW. Civil work of the plant is going on and it will be completed up to September-2016.
5	Bhavnagar Municipal Corporation	200.00	135.00	0.00	15.00	120.00	0.00	250 TPD	2.00	EOI under process for capacity of 250 TPD Waste to Energy Plant.

Sl. No.	Municipal Corporation/ ULBs	Approximate Total Waste Generated (TPD)	Approximate Waste to Processing (TPD)	Waste to Processing ( in TPD)				Waste to Energy ( under commissioning stage )	Proposed Electricity Generation (in MW)	Remarks
				Vermi Composting	Mechanical Composting	Bio methanation	RDF Composting			
6	Jamnagar Municipal Corporation	250.00	-	-	-	-	-	-		Tenders have been invited for Waste to Energy Project.
7	Junagadh Municipal Corporation	110.00	-	-	-	-	-	-		Project Report for Development of Scientific land fill site along with treatment facility is under preparation. Once the report is available, feasibility option of Waste Processing or Waste to Energy would be decided.
8	Gandhinagar Municipal Corporation	75.00	6.00	6.00	-	-	-	-		Biomethanation Plant is under commissioning stage.
9	162 Nagarpalikas	2234.00	800.00	800.00	-	-	-	-		

Sl. No.	Municipal Corporation/ ULBs	Approximate Total Waste Generated (TPD)	Approximate Waste to Processing (TPD)	Waste to Processing ( in TPD)				Waste to Energy ( under commissioning stage )	Proposed Electricity Generation (in MW)	Remarks
				Vermi Composting	Mechanical Composting	Bio methanation	RDF Composting			
Total		10204.00	2593.00	806.00	317.00	520.00	650.00	5600 TPD (Waste to Electricity)	67 MW	