

GOVERNMENT OF INDIA
MINISTRY OF URBAN DEVELOPMENT

LOK SABHA

UNSTARRED QUESTION NO. 4481

TO BE ANSWERED ON DECEMBER 14, 2016

WASTE MANAGEMENT

No. 4481 SHRI MUTHAMSETTI SRINIVASA RAO (AVANTHI):
SHRI N.K. PREMACHANDRAN:
SHRI YOGI ADITYA NATH:
SHRIMATI BUTTA RENUKA:
SHRI C. MAHENDRAN:
ADV. M. UDHAYAKUMAR:
SHRI KODIKUNNIL SURESH:

Will the Minister of URBAN DEVELOPMENT be pleased to state:

- (a) the estimated quantum of sewage, solid waste and garbage being generated and treated in urban areas in the country, city and State-wise;
- (b) the details of land fill sites and waste treatment plants in the country, city and State-wise;
- (c) the mechanism for proper collection, transportation, processing and disposal of solid wastes and treatment of sewage;
- (d) whether the Government proposes to implement new technologies for solid waste management and set up new sewage treatment plants and if so, the details thereof and the action taken/being taken by the Government in this regard;
- (e) whether the Government has received requests from States for financial or technical assistance for setting up treatment facilities for disposal of waste and improve drainage system during the last three years and the current year; and
- (f) if so, the details thereof, project, city and State-wise and the action taken/being taken by the Government thereon?

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ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF URBAN DEVELOPMENT

(RAO INDERJIT SINGH)

(a): As per the assessment made by Central Pollution Control Board (CPCB) for 2015, the sewage generation in the urban areas of the Country is estimated to be about 61,948 MLD (approx.) and sewage treatment capacity is for 23,277 MLD, which is about 37.6% of the total sewage generation. Further, as per the data available till Oct. 2016, the total amount of solid waste generated in the urban areas of the Country is about 1,58,878 MT/D, of which only 21.45% is being treated, currently. The State-wise generation & treatment of sewage is at Annexure-I and the State-wise generation & processing of solid waste is at Annexure- II.

(b): There are 7 functional Waste to energy plants with a capacity to produce 88.4 MW. Further, there are 45 functional/sub optimal compost plants in the country, currently, with a production capacity of about 5 lakh MT/annum. At present, total annual production of city compost from these plants is approximately 1.5 lakh MT/annum. The details of the functional/operational waste treatment plants are at Annexure-III.

(c) & (d): Under Swachh Bharat Mission (Urban), the State/UT Government may implement any scientifically proven new solid waste management technologies as per their requirement and actual site condition. Also, under "Atal Mission for Rejuvenation and Urban Transformation (AMRUT)", the State/UT Governments may set up new sewage treatment plants as per their requirement.

(e) & (f): Details of funds released under Swachh Bharat Mission (Urban) for solid waste management projects, under AMRUT, under Urban Infrastructure Development in Satellite Towns around Seven Mega Cities (UIDSST) for SWM and Sewerage/drainage project and under the 10% Lumpsum provision scheme for North East Region for SWM and Sewerage/drainage projects during the last three years and current year are at Annexure-IV, V, VI and VII respectively.

ANNEXURE REFERRED TO IN REPLY TO LOK SABHA UN-STARRED QUESTION NO. 4481 FOR 14.12.2016 REGARDING "WASTE MANAGEMENT"

ANNEXURE-I

Status of Sewage Generation and Treatment Capacity of Urban Population of India, March 2015

Sl. No.	State	Sewage Generation (MLD)	Installed Treatment Capacity (MLD)
1.	Andaman & Nicobar	22	0
2.	Andhra Pradesh	2871	247.27
3.	Arunachal Pradesh	50	
4.	Assam	703	0.21
5.	Bihar	1879	124.55
6.	Chandigarh	164	314.5
7.	Chhattisgarh	951	0
8.	Dadra & Nagar Haveli	26	-
9.	Daman & Diu	29	-
10.	Goa	145	74.58
11.	Gujarat	4119	3062.92
12.	Haryana	1413	852.7
13.	Himachal Pradesh	110	114.72
14.	Jammu & Kashmir	547	264.74
15.	Jharkhand	1270	117.24
16.	Karnataka	3777	1304.16
17.	Kerala	2552	152.97
18.	Lakshadweep	8	-
19.	Madhya Pradesh	3214	482.23
20.	Maharashtra	8143	5160.36
21.	Manipur	132	-
22.	Meghalaya	95	1
23.	Mizoram	90	10
24.	Nagaland	92	-
25.	Delhi	4155	2693.7
26.	Odisha	1121	385.54
27.	Pondicherry	136	68.5
28.	Punjab	1664	1245.45
29.	Rajasthan	2736	865.92
30.	Sikkim	24	31.88
31.	Tamil Nadu	5599	1799.72
32.	Telangana	1671	685.8
33.	Tripura	154	0.05
34.	Uttar Pradesh	7124	2646.84
35.	Uttarakhand	495	152.9
36.	West Bengal	4667	416.9
Total		61,948	23,277

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ANNEXURE-II

State-wise solid waste generation and waste processing in the urban areas of India

Sl. No.	State	Total waste generation (MT/D)	Total waste processing (%)
1.	Andhra Pradesh	6,440	8.0
2.	Andman & Nicobar Islands	100	35.0
3.	Arunachal Pradesh	181	15.0
4.	Assam	650	10.0
5.	Bihar	14,820	40.0
6.	Chandigarh UT	340	100.0
7.	Chhattisgarh	1,896	0.0
8.	Daman & Diu	85	0.0
9.	Dadra & Nagar Haveli	35	0.0
10.	NCT of Delhi	8,400	52.0
11.	Goa	183	52.0
12.	Gujarat	9,277	28.0
13.	Haryana	3,490	25.0
14.	Himachal Pradesh	300	25.0
15.	Jammu & Kashmir	1,792	2.0
16.	Jharkhand	3,570	15.0
17.	Karnataka	8,784	40.0
18.	Kerala	1,576	50.0
19.	Madhya Pradesh	5,079	14.0
20.	Maharashtra	26,820	10.0
21.	Manipur	176	50.0
22.	Meghalaya	268	58.0
23.	Mizoram	253	4.0
24.	Nagaland	270	0.0
25.	Odisha	2,460	2.0
26.	Puduchery UT	495	20.0
27.	Punjab	4,100	10.0
28.	Rajasthan	5,247	16.0
29.	Sikkim	49	0.0
30.	Tamil Nadu	15,272	16.0
31.	Telangana	6,628	49.0
32.	Tripura	407	0.0
33.	Uttar Pradesh	19,180	13.0
34.	Uttarakhand	1,400	0.7
35.	West Bengal	8,675	6.0
	Total/ Average	1,58,878	21.45

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ANNEXURE-III

City-wise Operational Waste to Energy Plants in the Country

S. No	State	Name of the City/ Town	Capacity (MW)
1	Maharashtra	Pune	10
2	Maharashtra	Solapur	3
3	New Delhi	Okhla	12
4	New Delhi	Ghazipur	16
5	Telangana	Karimnagar	12
6	Madhya Pradesh	Jabalpur	11.4
7	Delhi	Narela- Bawana	24
Total			88.4

City-wise Production Capacity and actual Production of Waste to Compost Plants in the Country

S. No.	State	City	Plant Compost Production Capacity (MT/Month)	Actual Compost Production Capacity (MT/Month)
1	Chhattisgarh	Dhamtari	113	42
2	Delhi	New Delhi	5775	628
3	Delhi	New Delhi	1650	42
4	Delhi	Okhla	2063	652
5	Goa	Panjim	107	19
6	Gujarat	Ahmedabad	825	50
7	Gujarat	Ahmedabad	1238	836
8	Gujarat	Bhavnagar	825	25
9	Gujarat	Dakor	3094	667
10	Gujarat	Godhra	150	129
11	Gujarat	Morbi	150	125
12	Gujarat	Patan	150	129
13	Gujarat	Porbandar	150	138
14	Gujarat	Surat	825	42
15	Gujarat	Surendra Nagar	150	138
16	Gujarat	Vadodara	825	25
17	Karnataka	Bangalore	3713	46
18	Karnataka	Belgaum	619	176
19	Karnataka	Mangalore	825	59
20	Karnataka	Mysore	1031	392
21	Karnataka	Shimoga	413	0
22	Kerala	Calicut	413	284

23	Madhya Pradesh	Indore	1031	667
24	Maharashtra	Pune	2063	189
25	Maharashtra	Nagpur	825	125
26	Maharashtra	Turbhe	2063	692
27	Rajasthan	Jaipur	1238	737
28	Tamil Nadu	Coimbatore	2681	1079
29	Tamil Nadu	Madurai	371	250
30	Tamil Nadu	Trichy	1238	166
31	Tamil Nadu	Conoor	37	27
32	Tamil Nadu	Erode	413	109
33	Tamil Nadu	Metupalyam	144	51
34	Tamil Nadu	Pollachi	248	66
35	Tamil Nadu	Udumplet	83	35
36	Telangana	Hyderabad	15,262	1593
37	Telangana	Suryapet	210	25
38	Uttar Pradesh	Moradabad	619	250
39	Uttar Pradesh	Muzafarnagar	495	333
40	Uttar Pradesh	Aligarh	454	292
41	Uttar Pradesh	Fatehpur	124	83
42	Uttar Pradesh	Lucknow	375	83
43	Uttar Pradesh	Allahabad	250	63
44	West Bengal	Haldia	1031	73
45	West Bengal	Kolkata	1500	1021
Total			57,853	12,651

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ANNEXURE-IV

FUNDS RELEASED UNDER SWACHH BHARAT MISSION (URBAN) FOR SOLID WASTE MANAGEMENT PROJECT

(Rs. in Crore)

Sl. No.	State/UT	2014-15	2015-16	2016-17	Total
1	A&N Islands		0.0648		0.0648
2	Andhra Pradesh	21.0200		185.9700	206.9900
3	Arunachal Pradesh	6.8400			6.8400
4	Assam				0.0000
5	Bihar	24.6600		71.9700	96.6300
6	Chandigarh		0.9800	1.3500	2.3300
7	Chhattisgarh		8.7941		8.7941
8	Dadra & Nagar Haveli				0.0000
9	Daman & Diu				0.0000
10	Delhi	4.3800	58.7300		63.1100
11	Goa	1.7000		2.0800	3.7800
12	Gujarat				0.0000
13	Haryana	12.5700		45.0850	57.6550
14	Himachal Pradesh	3.0000		6.1000	9.1000
15	Jammu & Kashmir	10.9000			10.9000
16	Jharkhand	9.3300		32.3190	41.6490
17	Karnataka		39.1400	18.1150	57.2550
18	Kerala				0.0000
19	Madhya Pradesh		52.9300		52.9300
20	Maharashtra		42.4300		42.4300
21	Manipur	9.6100			9.6100
22	Meghalaya	2.9800			2.9800
23	Mizoram	8.2100			8.2100
24	Nagaland	6.6800			6.6800
25	Odisha			18.9795	18.9795
26	Puducherry	1.0000			1.0000
27	Punjab	23.0000			23.0000
28	Rajasthan	33.6500		181.9500	215.6000
29	Sikkim	2.5200			2.5200
30	Tamil Nadu	13.1300	83.3900	108.4900	205.0100
31	Telangana	15.2200		50.0800	65.3000
32	Tripura				0.0000
33	Uttar Pradesh	37.5600			37.5600
34	Uttarakhand	5.0000			5.0000
35	West Bengal	34.5400			34.5400
	STATE/UT	287.5000	286.4589	722.4885	1,296.4474

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ANNEXURE-V

FUND RELEASE UNDER ATAL MISSION FOR REJUVENATION AND URBAN TRANSFORMATION (AMRUT)

(Rs. in crore)

Sl. No.	State/UTs	Total size of SAAP approved		Central Assistance		Central Assistance release	
		2015-16	2016-17	2015-16	2016-17	2015-16	2016-17
1	Andhra Pradesh	662.86	877.05	300.41	351.6	60.08	70.32
2	A & N Islands	3.18	3.6	3.18	3.6	0.64	0.72
3	Arunachal Pradesh	40.94	-	36.84	-	7.37	-
4	Assam	188.16	218.67	169.34	196.8	33.87	39.36
5	Bihar	664.20	775.2	332.10	387.6	66.42	77.52
6	Chandigarh	15.04	18	15.04	18	3.01	3.6
7	Chhattisgarh	573.40	740.38	276.47	308.58	55.29	61.72
8	Dadra & Nagar Haveli	3.41	3.6	3.41	3.6	0.68	0.72
9	Daman & Diu	4.56	5.75	4.56	5.75	0.91	1.15
10	Delhi	223.07	-	223.07	-	44.61	-
11	Goa	59.44	69.6	29.71	34.8	5.94	6.96
12	Gujarat	1204.42	1401	564.30	599.18	112.86	119.84
13	Haryana	438.02	525.4	219.01	254.4	43.80	50.88
14	Himachal Pradesh	88.23	101.33	79.41	91.2	15.88	18.24
15	Jammu & Kashmir	171.00	197.33	153.87	177.6	30.77	35.52
16	Jharkhand	313.36	376.8	137.95	165.81	27.59	33.16
17	Karnataka	1258.54	1624.72	592.29	771.6	118.46	154.32
18	Kerala	587.48	796.06	287.98	386.4	57.60	77.28
19	Lakshadweep	0.68	1.2	0.68	1.2	0.14	0.24
20	Madhya Pradesh	1655.81	2050.9	672.03	862.8	134.41	172.56
21	Maharashtra	1989.41	2489.91	914.92	1176	182.98	235.2
22	Manipur	51.43	60	46.29	54	9.26	10.8
23	Meghalaya	22.81	26.67	20.53	24	4.11	4.8
24	Mizoram	40.56	46.67	36.50	42	7.30	8.4
25	Nagaland	34.98	40	31.48	36	6.29	7.2
26	Odisha	461.30	530.4	228.14	265.2	45.63	53.04
27	Puducherry	18.97	21.6	18.97	21.6	3.79	4.32
28	Punjab	709.66	857.02	318.86	400.8	63.77	80.16
29	Rajasthan	919.00	1072.8	459.50	526.11	91.90	105.22
30	Sikkim	13.43	13.33	12.09	12.00	2.42	2.40
31	Tamil Nadu	3249.23	3834.49	1372.41	1582.8	274.48	316.56
32	Telangana	408.51	554.77	204.25	277.2	40.85	55.44
33	Tripura	36.62	49.33	32.96	44.4	6.59	8.88

34	Uttar Pradesh	3287.27	3895.16	1409.07	1638	281.81	327.6
35	Uttarakhand	269.93	197.33	133.68	177.6	26.74	35.52
36	West Bengal	1104.86	1393.69	552.43	642	110.49	128.4
	Total	20773.77	24869.76	9893.73	11540.23	1978.74	2308.05

URBAN INFRASTRUCTURE DEVELOPMENT IN SATELLITE TOWNS AROUND SEVEN MEGA CITIES (UIDSST)

(Fund released for solid waste management projects during the last three years)

(Rs. in Lakh)

Name of the State	Name of the project	Year of sanction	Estimated cost of Project	2013-14	2014-15	2015-16	2016-17 (8.12.16)
Gujarat (Sanand)	Solid waste management scheme for Sanand Nagarpalika Gujarat	2010-11	213.62	43.72	21.00	4.21	-
Haryana (Sonapat)	Municipal solid waste management scheme for Sonapat town	2010-11	2496.00	-	-	-	-
UP (Pilkhuwa)	Municipal solid waste management scheme for Pilkhuwa town	2010-11	897.70	-	179.54	179.54	-
Tamil Nadu (Sriperumbudur)	Integrated solid waste management project for Sriperumbudur	2011-12	443.77	88.75	88.75	88.75	-
Maharashtra (Vasai-virar)	Integrated solid waste management project for Vasai-virar	2010-11	3172.64	-	-	634.53	-
	Total		7223.73	132.47	289.29	907.03	-

URBAN INFRASTRUCTURE DEVELOPMENT IN SATELLITE TOWNS AROUND SEVEN MEGA CITIES (UIDSST)

(Fund released for sewerage / drainage projects during the last three years)

(Rs. in Lakh)

Name of the State / City	Name of the project	Year of sanction	Estimated cost of the project	Fund released			
				2013-14	2014-15	2015-16	2016-17 (as on 8.12.16)
Telangana (Vikarabad)	Underground drainage scheme for Vikarabad town, AP	2010-11	6474.00	696.19	1295.00	-	-
Gujarat (Sanand)	Sewerage scheme for sanand town	2010-11	5848.68	-	2339.48	-	-
UP (Pilkhuwa)	Pilkhuwa sewage scheme	2010-11	368.00	-	368.75	368.75	-
Tamil Nadu (Sriperembudur)	Providing comprehensive sewerage scheme for Sriperembudur	2011-12	5622.00	-	1124.40	1124.40	-
Maharashtra (Vasai-virar)	Underground sewerage scheme for Vasai-virar STP-2	2010-11	6622.63	-	1324.52	401.46	923.06
Karnataka (Hoskote)	Underground sewerage scheme for Hoskote	2011-12	4072.84	-	-	734.46	691.78
Total				828.66	6452.15	2629.07	1614.84

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ANNEXURE-VII

10% LUMPSUM SCHEME FOR NE STATES

(Fund released for solid waste management projects during the last three years)

(Rs. in Lakh)

Name of the State	Name of the project	Year of sanction	Estimated cost of project	2013-14	2014-15	2015-16	2016-17 (8.12.16)
Arunachal Pradesh	Solid Waste Management at Daporijo township	2013-14	597.68	-	161.37	-	-

10% LUMPSUM SCHEME FOR NE STATES

(Fund released for sewerage / drainage projects during the last three years)

(Rs. in Lakh)

Name of the State	Name of the project	Year of sanction	Estimated cost of the project	2013-14	2014-15	2015-16	2016-17 (as on 8.12.16)
Arunachal Pradesh	1. Development of storm water drainage, Khonsa, AP	2011-12	422.29	114.01	114.02	-	114.03
	2. Aalo storm water drainage scheme (Ph-II), AP	2011-12	929.05	334.46	209.04	-	-
Assam	1. Golaghat master plan area storm water drainage scheme Ph-I, Assam	2004-05	718.56	-	-	-	277.69
	1. C/o Karimganj Storm water drainage scheme (Ph-I), Assam	2007-08	1183.57	-	-	355.07	-
	2. C/o drainage system for Dhemaji town, Assam	2006-07	1217.00	-	-	-	-
	3. Tinsukia master plan area storm water drainage scheme, Assam	2006-07	1391.11	-	-	-	-
	Total			448.47	323.06	355.07	391.72