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**GOVERNMENT OF INDIA
MINISTRY OF URBAN DEVELOPMENT
LOK SABHA**

**UNSTARRED QUESTION NO. 78
TO BE ANSWERED ON FEBRUARY 24, 2016
MANAGEMENT OF SEWAGE**

**No. 78 SHRI SANTOSH KUMAR:
 SHRI MUKESH RAJPUT:
 SHRI DEVJI M. PATEL:
 SHRI DILIP PATEL:**

Will the Minister of URBAN DEVELOPMENT be pleased to state:

- (a) the quantum of sewage generated and treatment capacity available in urban areas in the country, city-wise;**
- (b) the details of the technology being used in sewage treatment plants in the country and the manner in which the sewage which is not treated are disposed off;**
- (c) the details of proposals for setting up of sewage treatment plant and under ground drainage have been received by the Government during the last three years and the current year, State-wise; and**
- (d) the details of proposals sanctioned and the funds released along with the works undertaken during the above period, city and State-wise?**

ANSWER

**THE MINISTER OF STATE IN THE MINISTRY OF URBAN DEVELOPMENT
(SHRI BABUL SUPRIYO)**

(a) & (b): The quantum of sewage generated from Class - I Cities and Class - II Towns is 38254.82 million litres per day (MLD) out of which only 11787.38 MLD (31%) is being treated and the remaining 26467.44 MLD is disposed into the water bodies without any treatment. The city wise details at Annexure-I.

The various technologies being used in sewage treatment plants are Activated Sludge Process (ASP), Membrane Bio Reactor (MBR), Sequential Batch Reactor (SBR), Oxidation, Anaerobic Digesters etc.

(c) & (d): The details of proposals received/sanctioned for setting up of sewage treatment plant and under ground drainage and fund released during the last three years and the current year, city and State-wise are at Annexure-II.

Annexure -I

ANNEXURE-I REFERRED TO IN REPLY TO LOK SABHA UNSTARRED QUESTION NO.78 TO BE ANSWERED ON 24.02.2016 REGARDING "MANAGEMENT OF SEWAGE"

(a) **Status of Sewage Generation and Treatment Capacity of Urban Population of India**
(Estimated as on March, 2015)

Estimation of sewage generation is computed based on the same factor as calculated in assessment of 2008 (calculated @ 148 LPCD). In case of Delhi, Sewage Generation is as per actual.

Sl.No	State	Sewage Generation of Urban Population in 2015 (MLD)	Installed Treatment Capacity (As on March, 2015) (MLD)
1.	Andaman & Nicobar Islands	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		61948	23277

(b) State-wise Break up of STPs

Sl. No.	State/UT	Capacity of Municipal STPs	No. of Municipal STPs	Operational Capacity (MLD)	No. of STPs Operational	Non-operational Capacity (MLD)	No. of STPs Non-operational	Under Construction Capacity (MLD)	No. of STPs Under Constructions	Proposed Capacity (MLD)	No. of STPs Proposed
1	Andhra	247.27	12	156.27	9	-	-	91	3	-	-
2	Arunachal	-	-	-	-	-	-	-	-	-	-
3	Andaman &	-	-	-	-	-	-	-	-	-	-
4	Assam	0.21	1	0.21	1	-	-	-	-	-	-
5	Bihar	124.55	6	99.55	5	25	1	-	-	-	-
6	Chandigarh	314.5	5	314.5	5	-	-	-	-	-	-
7	Chhattisgarh	-	-	-	-	-	-	-	-	-	-
8	Delhi	2693.7	35	2671.2	34	22.5	1	-	-	-	-
9	Daman Diu &	-	-	-	-	-	-	-	-	-	-
10	Goa	74.58	7	34.5	4	-	-	40.08	3	-	-
11	Gujarat	3062.92	51	2111.64	32	498	4	359.5	8	93.78	7
12	Haryana	852.7	41	805	38	2.7	2	45	1	-	-
13	Himachal	114.72	66	79.51	36	35.21	30	-	-	-	-
14	Jammu &	264.74	19	145.74	15	2	1	117	3	-	-
15	Jharkhand	117.24	15	117.24	15	-	-	-	-	-	-
16	Karnataka	1304.16	57	1112.05	44	-	-	192.11	13	-	-
17	Kerala	152.97	10	112.87	6	3	1	37.1	3	-	-
18	Lakshadweep	-	-	-	-	-	-	-	-	-	-
19	Maharashtra	5160.36	76	4683.9	60	344.5	10	131.96	6	-	-
20	Madhya	482.23	17	475.48	14	6.75	3	-	-	-	-
21	Manipur	-	-	-	-	-	-	-	-	-	-
22	Meghalaya	1	1	-	-	1	1	-	-	-	-
23	Mizoram	10	1	-	-	-	-	10	1	-	-
24	Nagaland	-	-	-	-	-	-	-	-	-	-
25	Odisha	385.54	13	158.04	7	-	-	227.5	6	-	-
26	Puducherry	68.5	6	17.5	3	-	-	51	3	-	-
27	Punjab	1245.45	86	921.45	38	15.2	4	276.7	31	32.1	13
28	Rajasthan	865.92	63	384.5	16	-	-	149.3	11	332.12	36
29	Sikkim	31.88	11	8	1	5	1	18.88	9	-	-

30	Tamil Nadu	1799.72	73	1140.83	33	5.17	1	521.08	28	132.64	11
31	Telangana	685.8	18	634.8	17	-	-	51	1	-	-
32	Tripura	0.05	1	0.045	1	-	-	-	-	-	-
33	Uttar Pradesh	2646.84	73	2372.25	62	89.59	7	170	3	15	1
34	Uttrakhand	152.9	24	90.75	10	-	-	39.15	12	23	2
35	West Bengal	416.9	28	235.36	16	181.54	12	-	-	-	-
Total		23277.36	816	18883.2	522	1237.16	79	2528.36	145	628.64	70
Note : ‘ - ‘ indicates that information not received from concerned SPCB/PCC											

Annexure-II

ANNEXURE-II REFERRED TO IN REPLY TO LOK SABHA UNSTARRED QUESTION NO.78 TO BE ANSWERED ON 24.02.2016 REGARDING "MANAGEMENT OF SEWAGE"

(a) Atal Mission for Rejuvenation and Urban Transformation (AMRUT)

(Rs. in crore)

Sl. No.	Name of the State	Total size of SAAP	Committed Central Assistance	Amount released as 1 st installment (20% of Central Assistance)
01	Rajasthan	919.00	459.50	91.90
02	Gujarat	1204.42	564.30	112.86
03	Andhra Pradesh	662.46	300.41	60.08
04	Jharkhand	313.36	137.95	27.59
05	Odisha	461.30	228.14	45.63
06	Madhya Pradesh	1655.81	672.03	134.41
07	Mizoram	73.00	36.50	7.30
08	Tamil Nadu	3249.23	1372.41	274.48
09	Kerala	575.96	287.98	57.60
10	Telangana	415.51	204.75	40.85
11	Chhattisgarh	573.40	276.47	55.29
12	West Bengal	1104.86	552.43	110.49
13	Haryana	438.02	219.01	43.80
14	Maharashtra	1989.41	914.92	182.98
15	Himachal Pradesh	158.82	79.41	15.88
16	Bihar	664.20	332.10	66.42
17	Uttar Pradesh	3287.26	1409.07	281.81
18	Karnataka	1258.54	592.29	118.46
19	Uttarakhand	269.93	133.68	26.74
20	Punjab	709.66	318.86	63.77
	Total		9091.70	1818.34

(b) North Eastern Region Urban Development Programme (NERUDP)

Sewage Treatment Projects received during 2014-15 and cleared in 2015-16 (Jan'2016)

Sl. No.	State	City	Projects	Funds sanctioned	Works undertaken
1	Mizoram	Aizawl	Septage Management	NIL (Works yet to commence)	Expected to commence by Apr'16
2	Tripura	Agartala	Septage Management		
3	Nagaland	Kohima	Septage Management		

(c) Jawaharlal Nehru Urban Renewal Mission (JNNURM)

Sewerage and Under Ground Drainage Projects sanctioned under UIG-JnNURM during last three years and current year

(Amount in lakhs)

S.no.	Name of the State	Name of the City	Project Title	Approved Cost	Date of CSMC / CCEA / CCI Meeting/Project Approval	FY of CSMC Meeting	Total ACA Commitment (Central Share)	As per MoF Release Order - ACA Released
1	Gujarat	Ahmedabad	Automation (SCADA based) of the sewerage system	2,773.69	2-Jul-13	2013-14	970.80	242.70
2	Gujarat	Ahmedabad	Water recycling and reuse project for Ahmedabad City – Providing 60 MLD tertiary treatment plant for Narol Industries	9,637.67	9-Oct-13	2013-14	3,373.20	843.30
3	Gujarat	Surat	Augmentation of Karanj sewerage treatment plant under east drainage zone of Surat	5,723.00	23-Apr-13	2013-14	2,861.50	1,144.61
4	Jharkhand	Ranchi	Sewerage and Storm Water Drainage System for Zone - I	30,225.91	21-Jan-14	2013-14	24,180.73	6,045.18
5	Maharashtra	Nanded	Sewerage Collection System in CIDCO, HUDCO area south Nanded	3,126.94	26-Mar-13	2012-13	2,501.55	750.46
6	Maharashtra	Nanded	Sewerage scheme for additional municipal corporation in Nanded	7,642.96	23-Apr-13	2013-14	6,114.37	1,747.06

S.no.	Name of the State	Name of the City	Project Title	Approved Cost	Date of CSMC / CCEA / CGI Meeting/Project Approval	FY of CSMC Meeting	Total ACA Commitment (Central Share)	As per MoF Release Order - ACA Released till date
7	Maharashtra	Pune	Providing Sewerage System for Newly Developed Area of PCMC	4,149.72	17-Dec-13	2013-14	2,074.86	518.71
8	Punjab	Amritsar	Providing Sewerage network and sewerage treatment plant for South East Zone	8,927.00	14-Feb-14	2013-14	4,463.50	1,116.00
9	Tamil Nadu	Chennai	Providing Underground sewerage scheme for Annai Sivagami Nagar in Thiruvottiyur in Chennai city	759.56	14-Feb-14	2013-14	265.85	66.46
10	Tamil Nadu	Chennai	Providing Underground sewerage scheme in Surapattu	3,299.88	14-Feb-14	2013-14	1,154.96	288.74
11	Tamil Nadu	Chennai	Providing Underground sewerage scheme in Muglivakam	4,630.68	14-Feb-14	2013-14	1,620.74	405.18
12	Tamil Nadu	Chennai	Providing Underground sewerage scheme in Nolambur	2,456.60	14-Feb-14	2013-14	859.81	214.95

Sewerage Projects sanctioned under UIDSSMT-JnNURM during last three years and current year

(Amount in lakhs)

S.no.	Name of State	Name of towns/cities	Approved Cost	Date of approval by	Total Commitment	Total ACA Released
1	Himanchal Pradesh	Nalagarh	1,636.50	28-Nov-13	1,309.20	654.60
2	Himanchal Pradesh	Baddi	3,334.34	28-Nov-13	2,667.47	1,333.74
3	Jammu & Kashmir	leh	5,939.00	05-Mar-13	5,345.10	2,672.55
4	Karnataka	Curumitkal	1,842.75	28-Jun-13	1,474.20	737.10
5	Karnataka	Birur	2,131.82	28-Jun-13	1,705.46	852.73
6	Karnataka	Sadalga	2,406.05	28-Jun-13	1,924.84	962.42
7	Karnataka	Kundapura	4,736.79	28-Jun-13	3,789.43	1,894.72
8	Karnataka	Muddebihal	3,781.86	28-Jun-13	3,025.49	1,512.74
9	Maharashtra	Shirampur	4,936.29	21-Feb-13	3,949.03	1,974.52
10	Maharashtra	Malkapur (Karad)	4,091.47	28-Jul-13	3,273.18	1,636.59
11	Maharashtra	Baramati	2,504.33	28-Jul-13	2,003.46	1,001.73
12	Maharashtra	Kalmeshwar	2,076.74	28-Jul-13	1,661.39	830.69
13	Maharashtra	Gondia	12571.77	30-Mar-13	10,057.42	5,028.71
14	Maharashtra	Aurangabad	36568.89	20-Jul-13	29,255.11	14,627.56
15	Maharashtra	Katol	4261.00	20-Jul-13	3,408.80	1,704.40
16	Maharashtra	Ichalakaranji	8260.20	20-Jul-13	6,608.16	3,304.10
17	Madhya Pradesh	Dewas	14,062.53	14-Mar-13	11,250.02	5,625.01
18	Rajasthan	Chirawa Phase-I	6,314.32	21-Jun-13	5,051.46	2,525.73
19	Rajasthan	Laxmangarh	6,963.55	21-Jun-13	5,570.84	2,785.42
20	Rajasthan	Nawalgarh Phase-I	8,211.28	21-Jun-13	6,569.02	3,284.51
21	Rajasthan	Suratgarh Phase-I	7,547.64	21-Jun-13	6,038.11	3,019.06
22	Rajasthan	Nimbaheda	7,773.21	21-Jun-13	6,218.57	3,109.28
23	Rajasthan	Jaitaran	3,471.06	21-Jun-13	2,776.85	1,388.42
24	Rajasthan	Bhadra phase-I	8,932.70	21-Jun-13	7,146.16	3,573.08
25	Rajasthan	Badi Sadri	2151.23	16-Dec-13	1,720.98	860.49
26	Rajasthan	Ramgarh Sekhawati	4489.24	16-Dec-13	3,591.39	1,795.70

S.no.	Name of State	Name of towns/cities	Approved Cost	Date of approval by	Total Commitment	Total ACA Released
27	Rajasthan	Fatehnagar-Sanawar-I	3674.93	16-Dec-13	2,939.94	1,469.97
28	Rajasthan	Kushalgarh	4153.56	16-Dec-13	3,322.85	1,661.42
29	Tamil Nadu	Mettur	5,651.66	04-Jun-13	4,521.33	2,260.67
30	Tamil Nadu	Thirupathur	7,682.91	04-Jun-13	6,146.33	3,073.17
31	Tamil Nadu	Arakkonam	7,745.16	04-Jun-13	6,196.13	3,098.07
32	Tamil Nadu	Jolarpet	3,399.48	04-Jun-13	2,719.58	1,359.79
33	Tamil Nadu	Chidambaram	5,738.37	04-Jun-13	4,590.70	2,295.35
34	Tamil Nadu	Sattur	2,957.53	04-Jun-13	2,366.02	1,183.01
35	Tamil Nadu	Periakulam	1,712.92	04-Jun-13	1,370.34	685.17

(d) 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			
				2012-13	2013-14	2014-15	2015-16 (as on 18.2.16)
Telangana (Vikarabad)	Underground drainage scheme for Vikarabad town, AP	2010-11	6474.00	598.81	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	364.66	-	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	-
Karnataka (Hoskote)	Underground sewerage scheme for Hoskote	2011-12	4072.84	-	-	-	734.46
Total				1598.00	828.66	6452.15	2227.61

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	2012-13	2013-14	2014-15	2015-16 (as on 18.2.16)
Arunachal Pradesh	1. Development of storm water drainage, Khonsa, AP	2011-12	422.29	-	114.01	114.02	-
	2. Aalo storm water drainage scheme (Ph-II), AP	2011-12	929.05	-	334.46	209.04	-
Assam	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	418.00	-	-	-
Total				418.00	448.47	323.06	355.07