MUNICIPAL COASON SOLVER STATE OF THE PARTY O

# CITY SANITATION PLAN





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#### 1. Introduction & Background

The National Urban Sanitation policy launched during 2008 that "All Indian cities and towns become totally sanitized, healthy and livable and ensure and sustain good public health and environmental outcomes for all their citizens with a special forms on hygienic and affordable sanitation facilities for the urban, poor and women."

#### Specific Goals include:

- 1. Awarness, Generation and Behaviour charge,
- 2. ODF Cities,
- 3. Integrated city wide sanitation,
- 4. Sanitation and safe disposal and
- 5. Proper operation & maintenance of all sanitary installations.

Basing on this policy, CSP for Anantapuramu city is prepared to provide city wide systemic approach the frame work to achieve the goals contemplated under NSUP.

## Objectives of CSP:

The CSP is aimed at developing and maintaining a clean, safe and pleasant environment in Anantapuramu city to promote social, economic and physical well being of all sections of population.

#### The Principal Components of city wide approach include

- a) Collection and proper disposal and transportation of the wastes.
- b) Storm water management.
- c) To Ensure ODF city.

#### 2 City Sanitation Task force (CSTF)

#### Member of (CSTF)

The CSTF has to be constituted to mobilize stake holders to elevate the consciousness about sanitation in the mind of municipal agencies, Government agencies and amongst the people of the city. CSTF will organize a multi stake holder, multi-party meeting in the preparatory stage and take a formal resolution to make the city 100% sanitized. CSTF has been constituted among the stake holder groups, key officials like Commissioner, Municipal Health Officer, S.E (PH), Environmental Engineer, Sanitary Supervisor, Corporators, Association presidents, Safai karmachari union office bearers, Commercial heads, Bar Associations etc. The council has unanimously approved the resolution vide CR No. 54, Dated.29.11.2016.

SI.No	Name Sarvasri	Designation	Position in CSTF
1	Smt.M.Swaroopa	Hon'ble Mayor	CSTF Chairman
2	Sri.E.Surendrababu	Commissioner, Anantapuramu	CSTF Convener
		Municipal Corporation	9849905852
3	Dr. Venkatarama	Representative From Health	Health Standing
	DM&HO, Anantapuramu	Department & or Government Hospital	Committee Chairman
			9849902397
4	Sri.R.Ankaiah	Representative from Anantapuramu of	Sanitation Standing
	Superintendent Engineer	PWD (Engineering)	Committee chairman
	Public Health		9849905734
	O/o Public Health office		
5	Dr.K.Gangadhar Reddy	Municipal Health Officer	Solid Waste
			Management Standing
			Committee chairman
			9849908168
6	Smt.Rahamath Bee	Standing Committee Member &	Standing Committee
		Corporator	Chairman for strategy
			planning, M&E and
			IEBC Activities
	1	into the aforesaid committees as per their	
07	Sri.N.Gangi Reddy	Sanitary Supervisor	Member
			9849907873
08	Sri.S.Sudhakar,	S.S. Association President	Member
09	Sri.Kistappa, Dy.EE	Representatives from NGOs working on	Member
		water, sanitation, urban development,	
		slums, health and environment	
10	Sri.J.Surendranath	Environmental Engineer	Member
11	P.Rangaiah	Representatives from Merchant / Trade	Member
40		Association / Chambers of commerce	9849014386
12	Paila Reddy	Representative from Educational	Member
	SKU Professor, ATP	Institutions / Engineering Colleges /	9441074572
42	C. P Oh I	Universities	NA l
13	Sri.Penna Obulesu	Representative from NGO's /	Member
	President Safai Karmachari	Associations of public health workers,	
		sewerage sanitary workers, recycling	
1.4	Smt Sarala	agents	Mombor
14 15	Smt.Sarala, B.Sudarshan	Corporator	Member Member
16	Sri.Subhakumar	Corporator  Representative from local police	Member
10		Representative from local police	IVICITIDEI
	C.I. public urban	department (above the level of a sub inspector)	
17	Ramireddy, Advocate	Representative of the lawyers bar /	Member
1/	Lawyer Bar / President	association or a local lawyer interested	IVICIIIDCI
	Lawyer bar / Fresident	in environmental promotion	
	1	in chandinental promotion	

# 3. City Profile:

Anantapur District is a district in the Rayalaseema region of Andhra Pradesh, India. The district headquarters is located at Anantapur City As of 2011 Census, the district had a population of 40,83,315, of which 28.09% is urban and a literacy rate of 64.28%.[2] It is the largest district in terms of area in Andhra Pradesh and 7th largest district in India respectively.

Area which comes under Ananthapuram district was once a crucial part of the Vijayanagara Empire. After the fall of the Vijayanagara rulers, it eventually came under the control of the Nizams of Hyderabad. British India took control of the region as part of a treaty with the Nizam. Ananthapuram district created in 1882 with Sir Thomas Munro as its first Collector.

Anantapur city is 354 km from Hyderabad, 200 km from the neighboring state capital of Bangalore. Anantapur connects Hyderabad and Bangalore through National Highway-7. Bangalore International Airport is nearest international airport to Anantapur.

Table 1: Ward data

			No of		Populatio	n	Density
Ward. No.	Name	Area (Hectare)	No. of House holds	Total	Male	Female	(persons / Hectare)
1	M.G. Colony, Yerranela kottalu, Revenue Colony, Shirid inagar	47.18	1250	5214	2610	2605	110.51
2	Nirmalanand nagar, HLC canal, Band Hats, Bindela colony, Vinayaka nagar, Arveti nagar, Bhagya nagar	100.67	1264	5224	2625	2600	51.89
3	Venugopal nagar, Tarakapuram kottalu, Tarakapuram	42.06	1245	5099	2520	2580	121.23
4	Ramachandra nagar, Revenue colony, Shiridi nagar	19.73	1310	5114	2605	2510	259.20
5	Srinivasa nagar, Khaja nagar, Chapalagunta colony, RTC Busstand road, RF road	28.85	1281	5111	2501	2609	177.16
6	Neeruganti veedhi , Venugopal nagar	15.29	1265	4999	2450	2550	326.95
7	Neeruganti veedhi	8.44	1244	5329	2676	2654	631.40
8	Rani nagar, Vinayaka nagar	7.88	1266	5411	2778	2634	686.68
9	Ferro nagar, Bhavaninagar Srikrishna devaraya nagar,	32.34	1238	5278	2650	2629	163.20

	vinayaka nagar						
10	Rajamma colony, Ambarapu veedhi, Gadangi veedhi, Tadipatri road, Gooty road	13.77	1277	5480	2780	2701	397.97
11	Ambarapu veedhi, Amudala street, Gandhi Bazar	8	1345	5176	2595	2582	647.00
12	Thilak road, Kuruba veedhi, bramhana veedhi	10.39	1224	5065	2465	2601	487.49
13	Uma nagar, Roshan Nagar, Ramaswamy Temple area, Thilak road, Gooty road, Neeruganti veedhi	10.99	1205	4963	2410	2554	451.59
14	Subash road, Rajaji Veedhi, Uma nagar	5.99	1288	5462	2695	2768	911.85
15	Kamala nagar, Raju road, RF road, Subash road	24.21	1296	5139	2525	2615	212.27
16	Kamalanagar, Municipal colony, Srinivasa nagar, Venkata Reddy colony, DCMS road, RF road, Subash road	38.06	1366	5274	2690	2585	138.57
17	Gulzarpet, Adimurthy nagar, Subash road	21.43	1200	5430	2797	2634	253.38
18	Gulzarpet, Patel road, Sing street, Umapthi road, court road, malleswari road, Subash road	17.6	1198	4934	2445	2490	280.34
19	Prakash road, Rahamath nagar, Baba nagar, Govt Hospital road	24.35	1234	5209	2505	2705	213.92
20	Obuladeva nagar, Sai nagar, Subash road, Rajini bar street	72.47	1269	5295	2700	2596	73.06
20	Sai nagar, Ammavari Cheruvu kottalu	13.99	1287	5418	2715	2704	387.28
22	Boya street, Sangamesh nagar, Surya nagar road	13.49	1247	5304	2665	2640	393.18
23	Vegetable street, memin street, Asar street, Ambedkar nagar, munna nagar	2.25	1213	5051	2550	2502	2244.89
24	Collector office road, Sangamesh nagar, Maruvakomma colony, buddappa nagar colony, Drivers colony	15.22	1222	5223	2614	2610	343.17
25	Ashok nagar , Drivers colony	15.98	1263	5197	2634	2564	325.22
26	Ammavari cheruvu kottalu, Sai nagar	13.76	1295	5266	2697	2570	382.70

27	Harihara nagar, Ashok nagar,	35.06	1299	5272	2735	2538	150.37
28	Jesus nagar, Vidyut nagar Venkateswar nagar, Novodaya	44.05	1306	5368	2693	2676	121.86
29	colony, Housing Board colony Vincent ferror colony, Vijayanagar colony, Engineering college road, R.D.T area, Sarada nagar	91.01	1287	5275	2632	2644	57.96
30	Bangalore road, JNTU college road, Tarakanath colony , Sarada nagar, SBI colony, Navodaya colony	42.78	1225	5114	2515	2600	119.54
31	Housing board colony, Hamali colony	64.71	1241	5239	2704	2536	80.96
32	Vidyut nagar, obuladeva nagar, Adarsh nagar, new Vidyut colony,F.C.I. colony, Shivaji nagar, prasannaya palli road	76.01	1150	4942	2407	2478	65.02
33	Govt Hospital road, obuladeva nagar, Aravind nagar, Krupananda nagar	28.88	1227	5406	2739	2668	187.19
34	Prasannayapalli road, Krupananda nagar, Srikrishna devaraya nagar, Naik nagar	23.84	1256	5217	2558	2660	218.83
35	Ramnagar, Maruthi nagar, Railway trac , Mangalavari colony	76.44	1210	5056	2497	2560	66.14
36	Mangalavari colony, Venkata rao nagar, Adarsh colony, Srinagar colony, Andhra Bank colony, 80 feet Ayyappa swamy temple road	62.18	1293	5306	2688	2619	85.33
37	Ramnagar main road, Ram nagar, Railway track line	39.67	1230	5218	2604	2615	131.54
38	Kovur nagar, Mahammad nagar	37.07	1208	5213	2611	2603	140.63
39	Lakshmi nagar, Kovur nagar, PTC compound	75.63	1294	5407	2701	2707	71.49
36 37 38 39 40	Ballary road, Kld road, N.H. 7,Satyadeva nagar, Vadde colony, Azad nagar, Parvathama colony	47.99	1318	5204	2612	2593	108.44
41	NH7, George pet, Ballary road, Hanuman road, Yuvajana colony, Kylasam road	44.45	1305	5029	2511	2524	113.14

42	Indira nagar, LB nagar, Hyderavali colony, Kylasam road, 6throad, Ballary road, NH7	24.28	1358	5408	2713	2697	222.73
43	5 <sup>th</sup> road, Georgpet, Yerukalavari colony	8.07	1264	5163	2648	2517	639.78
44	5 <sup>th</sup> road, 1 <sup>st</sup> road, Georgpet	10.5	1255	5384	2778	2608	512.76
45	Georgpet, 1 <sup>st</sup> road, 5 <sup>th</sup> road, Railway track.	37.12	1289	5174	2584	2591	139.39
46	Nehrupoormen colony, 5 <sup>th</sup> road, Somanath nagar road	11.29	1236	5108	2508	2602	452.44
47	Nehrupoormen colony, Somanath nagar , Sunitha nagar part	14.42	1159	5204	2607	2598	360.89
48	Rajak nagar, KK nagar, Santhi nagar, Somanath nagar road	36.66	1209	5201	2609	2593	141.87
49	2 <sup>nd</sup> road, Indira Gandhi kottalu, Ganga nagar, RK nagar, Thirumala nagar	30.28	1257	5204	2614	2592	171.86
50	1 <sup>st</sup> road, HLC colony, Dwaraka nagar, Sunitha nagar part, pedda mutyalamma colony, 2 <sup>nd</sup> road	47.07	1323	5227	2612	2616	111.05
		1633.85	62991	261004	130777	130227	

Table 2: Slum data

			Cottono			I	Populatio	n	Density
Sr. No.	Slum Name	Location / Ward	Category (Notified, Recognized, Identified)	Area (Hectare)	No. of Househol ds	Tota 1	Male	Fema le	(person s / Hectare
1	Ashok nagar	25	Notified	15.98	130	632	355	277	325.22
2	Rani nagar (Ferror colony)	19	Notified	24.35	541	2546	1491	1055	213.92
3	Buddappa Nagar	24	Notified	15.22	253	1351	740	611	343.17
4	Naik Nagar	34	Notified	23.84	139	686	412	274	218.83
5	Yuvajana colony	41	Notified	44.45	244	1175	705	470	113.14
6	Hamali colony	31	Notified	42.78	23	104	62	42	119.54
7	Maruvakomma colony	24	Notified	8.44	320	254	152	102	631.40

8	Erukalavari colony	43	Notified	8.07	201	1094	656	438	639.78
9	Vinayaka nagar	2	Notified	100.67	323	1827	1096	731	51.89
10	Ambedkar nagar	23	Notified	2.25	358	2380	1428	952	2244.8 9
11	Rani nagar (Harijanavada)	8	Notified	7.88	53	253	152	101	686.68
12	Krupananda nagar	34	Notified	23.84	98	492	295	197	218.83
13	Neerganti street I	3/7	Notified	8.44	148	703	422	281	631.40
14	Neerganti street II	7/3	Notified	15.29	161	930	558	372	326.95
15	Tharakapuram	6	Notified	42.06	135	723	434	289	121.23
16	Tharimala	12	Notified	10.39	115	500			
	Nagireddy colony						300	200	487.49
17	Munna nagar	22	Notified	2.25	490	2692	1615	1077	2244.8 9
18	Rangaswamy nagar	47	Notified	10.99	336	1815	1089	726	451.59
19	Obuldeva nagar	20	Notified	76.01	532	2240	1344	896	65.02
20	Krishnadevara ya nagar	34	Notified	23.84	167	820	492	328	218.83
21	Nallappa reddy colony	36	Notified	62.18	175	832	499	333	85.33
22	Rani nagar (CD Hospital)	10	Notified	13.77	333	1652	991	661	397.97
23	Lakshmi nagar	39	Notified	2.25	550	2643	1586	1057	2244.8 9
24	Maruthi nagar	35	Notified	76.44	807	6038	3623	2415	66.14
25	Navodaya colony	28	Notified	44.05	757	4055	2433	1622	121.86
26	Ammavaricher uvu kottalu	21	Notified	13.99	264	1267	760	507	387.28
27	Roshna nagar	14	Notified	5.99	90	394	236	158	911.85
28	Rahamath nagar	19	Notified	24.35	415	1946	1168	778	213.92
29	Sunitha nagar	40	Notified	47.99	88	437	262	175	108.44
30	Rajaka colony (Ganga nagar)	49	Notified	30.28	183	826	496	330	171.86
31	Rajaka nagar	48	Notified	36.66	134	699	419	280	141.87
32	Indira Gandhi nagar	49	Notified	30.28	448	2185	1311	874	171.86
33	Mahatma Gandhi colony-	1	Notified	47.18	822	5439	3263	2176	110.51
i I									

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	1								
34	Mangalavari colony	35	Notified	62.18	200	2125	1275	850	85.33
35	Maruthi nagar (Railway Track)		Notified	76.44	244	1915	1149	766	66.14
36	Sreenivasa nagar	5	Notified	28.85	320	1601	961	640	177.16
37	Arunodaya colony	50	Notified	47.07	111	619	371	248	111.05
38	Khaja nagar	5	Notified	28.85	101	612	367	245	177.16
39	NTR colony	42	Notified	24.28	181	854	512	342	222.73
40	Indira nagar	42	Notified	24.28	622	3246	1948	1298	222.73
41	Janashakthi nagar	41	Notified	44.45	253	1370	822	548	113.14
42	Azad nagar	40	Notified	47.99	422	2075	1245	830	108.44
34 35 36 37 38 39 40 41 42 43	Nehru poormen colony	46	Notified	8.07	329	1944	1166	778	639.78

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			ļ	1			1		"
Non N	Notified Slums		ļ	1			1		
44	Hyder vali	42	Non notified	24.28	22	86	F2	24	222.73
45	colony	40	T uifind	27.10		400	52	34	
45	Satyadevaraya nagar	40	Non notified	37.12	69	409	245	164	139.39
46	Besides		Non notified	11.29	24	174			
	Judicial	İ	ļ	ĺ		'	1		452.44
	Colony	<del></del>		<u> </u>	<u> </u>	<u> </u>	104	70	
47	MGM colony	41	Non notified	14.42	31	137	82	55	360.89
48	Mallalamma kottala	15	Non notified	24.21	57	326	196	130	212.27
49	Sangamesh nagar kottala	22	Non notified	13.49	28	153	92	61	393.18
50	Vincent Ferror nagar	29	Non notified	91.01	137	620	372	248	57.96
51	Surya nagar,	31	Non notified	64.71	45	192	<u> </u>	2.5	<del>                                      </del>
_	Beside Hamali	i	1,0=====	1			1		80.96
	colony	İ	ļ	ĺ		'	115	77	
52	Sri Krishna	9	Non notified	32.34	75	106			163.20
	devaraya nagar	ı <u> </u>				'	64	42	
53	Bhagya nagar	9	Non notified	32.34	125	653	392	261	163.20
54	Bhavani nagar	9	Non notified	32.34	156	776	466	310	163.20
55	DCMS kottala	16	Non notified	38.06	19	97	58	39	138.57
56	Pedda	47	Non notified	14.42	52	264			
	muthyalamma	İ	ļ	ĺ		'	1		360.89
	colony	i		<u> </u>		<u> </u>	158	106	
57	Hanuman colony	41	Non notified	44.45	110	420	252	168	113.14
58	Ammavari	21	Non notified	13.99	108	402		100	+
	cheruvu	<i>_</i> 1	140II IIOIIIIO	13.77	100	702	1		387.28
	kottala-2	İ	ļ	ĺ		'	241	161	307.23
59	Shiridi nagar	1	Non notified	47.18	121	838	503	335	110.51
60	Sangamitra	35	Non notified	76.44	232	1211			
	nagar						727	484	66.14
61	Venkata reddy	16	Non notified	38.06	111	621	373	2.10	138.57
	colony					!	373	248	

Population forecasting –ULB to calculate city population for current year and population projection for short term (5 years), intermediate term (15 years) and long term (30 years). While projecting the population, the ULB needs to account for density & distribution of population within several areas of the city.

# **WATER SUPPLY**

#### PRESENT SCENARIO OF WATER SUPPLY SYSTEM IN ANANTAPURAMU

- The Anantapuramu town population as per 2011 censue is 268503 and present population is about 3.00 lakhs.
- The main source of water supply to Anantapuramu is from PABR Dam. The main plant is at Muddalapuram which 25 Kms away from Anantapuramu. Capacity of filtration plant is 61 MLD.
- Storage capacity with 23 ELSR's is 15450 KL (15450 lakh liters) (single filling 15.45 MLD) (Populations served 1,15,000)
- Present supply is 41 MLD daily at the rate of 135 LPCD as per standards.
- Daily supply in 43 wards.
- Alternate duty supply in 7 wards (7,15,17,18,19,21 & 26).

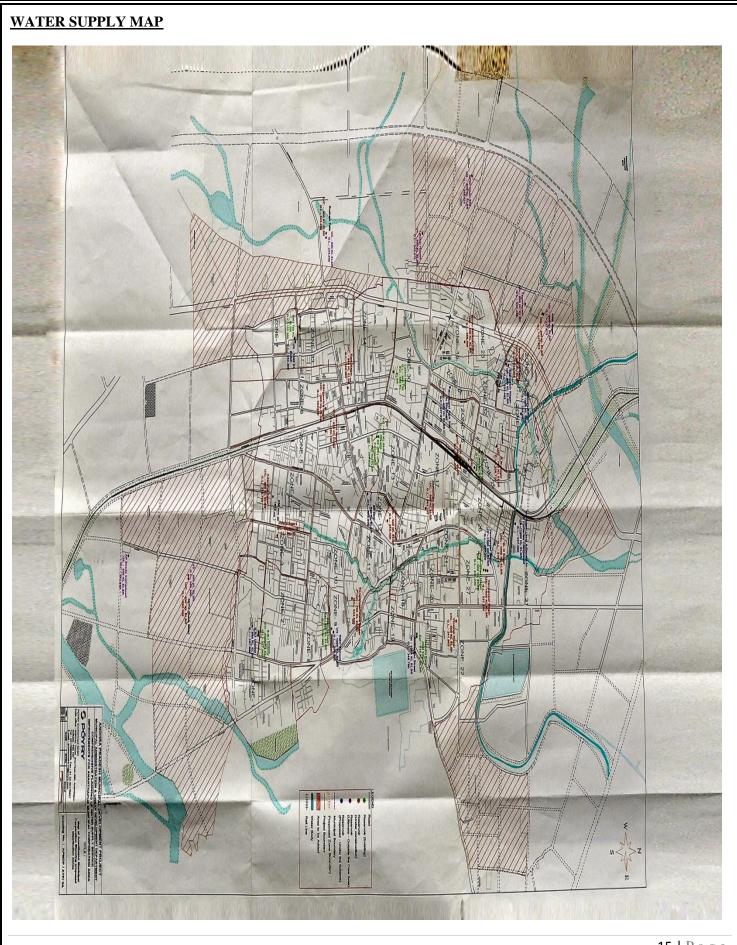
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Tabl	Table 4: Zonal level Water supply												
Zone No	Zone name	Reser voir Type	Cap acity (KL	Wards served	No. of HH	No. of conn ectio ns	Water Quali ty	Per capita supply (Adequa te, Inadequ ate)	Frequen cy of water supply	Ho urs of sup ply	Pressur e Adequa te/Inad equate	Rema rks	
Zone -1	SBI colony 1	ELSR	1000	28 (Part)	459	115	Portab le	Adequate	Once in a day	2	Adequat e		
Zone -2	SBI colony 2	ELSR	800	28 (Part)	784	196	Portab le	Adequate	Once in a day	2	Adequat e		
Zone -3	Vidyuth nagar	ELSR	500	25 (Part) 12 (Part)	100 9	252	Portab le	Adequate	Once in a day	2	Adequat e		
Zone 4	Adarsha nagar	ELSR	500	12 (Part)	550	138	Portab le	Adequate	Once in a day	2	Adequat e		
Zone 5	Aravind nagar	ELSR	950	11 (Part)	248	62	Portab le	Adequate	Once in a day	2	Adequat e		
Zone 6	Sangamitr a nagar	ELSR	500	6 (Part)	682	171	Portab le	Adequate	Once in a day	2	Adequat e		
Zone 7	Srinagar colony	ELSR	400	6 (Part)	682	171	Portab le	Adequate	Once in a day	2	Adequat e		
Zone 8	RMH school-1	ELSR	500	26, 27, 28 (Part)	918	230	Portab le	Adequate	Once in a day	2	Adequat e		
Zone 9	RMH School-2	ELSR	600	28 (Part)	458	115	Portab le	Adequate	Once in a day	2	Adequat e		
Zone 10	Sangames hwara nagar	ELSR	700	12 (Part) 28 (Part)	100	252	Portab le	Adequate	Once in a day	2	Adequat e		
Zone 11	Municipal Gym	ELSR	500	11 (Part) 12 (Part) 15 (Part)	997	249	Portab le	Adequate	Once in a day	2	Adequat e		
Zone 12	SE HLC	ELSR	500	11 (Part)	798	200	Portab	Adequate	Once in a day	2	Adequat e		

<b>I</b>												
				12 (Part)			le					
Zone 13	SE (PH) office	ELSR	900	7 (Part) 8, 9 ,10, 11 (Part)	173 7	434	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 14	Ram nagar	ELSR	900	6 (Part)	682	171	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 15	Hindu Dahana Vatika	ELSR	450	4 (Part)	311	78	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 16	MCH Centre	ELSR	800	2, 3	898	225	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 17	Kamala nagar	ELSR	500	13(Part ) 14, 15 (Part)	197	49	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 18	Ambarapu street	ELSR	600	20,23,2 4,25	850	213	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 19	Gandhi park	ELSR	910	16,21,2 2	210 0	525	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 20	Venugopal nagar 2	ELSR	500	19 (Part)	670	168	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 21	Venugopal nagar 3	ELSR	1000	17 (Part)	277	69	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 22	Vinayak nagar	ELSR	800	18 (Part)	117 8	295	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 23	Somnath nagar	ELSR	500	4 (Part)	311	78	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 24	Mpl park site	ELSR	500	5	536	134	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 25	Georgepet a	ELSR	450	1 (Part)	783	196	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 26	MG nagar	ELSR	1000	13 (Part)	830	208	Portab le	Adequate	Once in a day	2	Adequat e	

Zone 27	Venugopal nagar 1	ELSR	600	17 (Part), 19 (Part)	947	237	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 28	Gourav garden	ELSR	750	1 (Part)	783	196	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 29	Somnath nagar	ELSR	450	4 (Part)	311	78	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 30	Laxmi nagar	ELSR	500	6 (Part)	682	171	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 31	A Fisheries	ELSR	600	13 (Part), 17 (part), 18 (part)	228 5	571	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 32	RK nagar	ELSR	750	1 (part)	781	195	Portab le	Adequate	Once in a day	2	Adequat e	
Zone 33	Srinagar coloy	ELSR	500	6 (Part)	682	171	Portab le	Adequate	Once in a day	2	Adequat e	

**Non-Revenue Water** (**NRW**) – Here in the ULB identifies gaps and issues related to NRW. The ULB would identify reasons for high NRW i.e. real losses (eg. leakages in the transmission & distribution networks), apparent water losses (eg. illegal water connections, water theft, metering inaccuracies) and consumption which is authorized but not billed (eg. stand-posts). Following format (Refer Table 4) may prove useful for mentioning the cost recovery in water supply.

# **Main issues of Water Supply:**

- 1. Lack of continuous water supply.
- 2. Old pipe line system Leakages.

# 5. Access to Toilet

Under the Swachha Bharath – Swachha Andhra Corporation, Government is sanctioning for individual toilets whomever the want it they have sufficient space. Every body is now applying and mobilization is also needed for constructions of the IHHLs.

**Table 6: Coverage of Toilets (Individual & Community)** 

				No. of HHs		No of	urban poor I	HHs	
S 1. N o	Total HHs	Urban poor HHs	Having individual toilets	Dependent on community toilets	Practicing open defecation	Having individual toilets	Depende nt on commun ity toilets	Practic ing open defecat ion	Rema rks
1	66000	12616	45794	4895	2695	7215	3211	2190	

**Table 7: Community Toilets Blocks** 

Sr.	Locatio	No. of	No	of Seats	No of	f Urinals	Waste disposal arrangemen	Functiona 1 status	Design consideratio	Is complain	Owned &	User	Cost	
No ·	n / Ward	Populatio n dependent	Me n	Wome n	Me n	Wome n	t (sewered, septic tank, open drains, etc)	(water, lighting, etc)	n for men & women (privacy) – Yes / No	redressal system available ?	Maintained by	charge s (Rs)	Recover y (%)	Remark s
1	Uma nagar	108	5	5	5	5	Septic tank	Yes	Yes	Yes	NGO organizatio n	Rs.2/-		

Public Toilet Blocks - Herein the ULB identifies gaps & issues at existing Public Toilet blocks according to the following table:

**Table 8: Public Toilets** 

Sr.		No. of floating	No	of Seats	No o	f Urinals	Waste disposal arrangemen	Functiona 1 status	Design consideratio	Complain t	Owned &	User	Cost	
No ·	Locatio n / Ward	populatio n dependent	Me n	Wome n	Me n	Wome n	t (sewered, septic tank, open drains, etc)	(water, lighting, etc)	n for men & women (privacy) – Yes / No	redressal system available	Maintained by	charge s (Rs)	Recover y (%)	Remark s
1	Surya nagar	125	3	3	4	4	Septic tank	Yes	Yes	Yes		Rs.2/	80%	
2	PTC ground	98	2	2	3	3	Septic tank	Yes	Yes	Yes	NGO	Rs.2/	82%	
3	Police Comple x	138	3	3	4	4	Septic tank	Yes	Yes	Yes	organizatio n	Rs.2/	89%	
4	Old Veg. market	154	4	4	5	5	Septic tank	Yes	Yes	Yes		Rs.2/	93%	
5	Mp.l. Office	85	4	4	4	4	Septic tank	Yes	Yes	Yes		Rs.2/	78%	

# 6. Waste-water Management

**Waste-water disposal arrangements** – Herein the ULB identifies gaps & issues with respect to waste-water disposal arrangements for toilets according to the following table :

Table 9: Waste water disposal arrangements.

		V	Vaste water o	disposal arra	ngement	for toilets	(No.)		
Sl.N	No. of		Septio	c tank		Pit	Onan		No. of Insanitar
0	Househol ds	Sewerag e system	Connecte d to soak pit	Connecte d to open drain	Soak pit	Latrine s	Open drain s	Othe r	y latrines
1	66000	IHL	54786	11214	4877 5	6011	1121 4	-	

**Sanitation Flow Diagram (SFD)** – Here in the ULB presents the SFD for the entire city to get an overall understanding of the sanitation situation of the city across the entire sanitation value chain (collection, transportation, treatment, disposal/ reuse).

# **6.1 Sewerage management**

- **Sewer network & Pumping stations** Herein the ULB identifies the gaps & issues with respect to sewer network & pumping stations. The issues may include
  - o poor coverage of sewer network,
  - o poor collection efficiency of the sewer network,
  - o poor condition (breakage, blockage and etc.) of sewer network in few areas,
  - o poor condition of pumping stations,
  - o poor complaint redressal system, and
  - o Insufficient cost recovery.
- **Sewage Treatment Plants (STPs)** Herein the ULB identifies the gaps & issues with respect to STPs. ULB calculates the sewage generated by the city for current year and also forecasts the sewage generation for short term (5 years), intermediate term (15 years) and long term (30 years). The issues with respect to STPs may include
  - o inadequate design capacity of STPs to handle present / future sewage,
  - o use of inappropriate / outdated technology for treatment,
  - o sewage treatment not as per discharge norms,
  - o absence of sludge management facilities,
  - o no recycle / reuse of sewage / sludge and etc.

# **Table 10: Sewage Treatment Plants**

## **Main issues of Sewerage management:**

1. Lack of sewage treatment plant.

# **6.2 Septage management**

- **Septic Tanks** Herein the ULB identifies gaps & issues with respect to Septic Tanks existing in the city. The issues may include
  - o non-conformity of the design of existing septic tanks in the city to IS 2470 (Part 1)-1985,
  - o septic tanks are single chambered and are not water tight,
  - o septic tanks are broken and are of inadequate size,
  - o grey water is entering the septic tanks,
  - o septic tanks are inaccessible for cleaning,
  - o design of septic tanks is not controlled through building / planning rules
  - o absence of secondary treatment systems (eg. soak pits) for disposal of grey water & septic tank effluent.
- **Septage collection & conveyance** Herein the ULB identifies gaps & issues with respect to emptying (from septic tanks)& transportation of septage. The issues may include
  - o lack of data on private operators involved in dislodging & transportation of septage,
  - o the private operators are not authorized and not regulated,
  - o dislodging of septic tanks is not carried out regularly (once in every 2-3 years),
  - o dislodging service is inadequate to meet existing / future demand,
  - o poor complaint redressal system and absence of operational,
  - Health & safety standards for septage collection & conveyance. ULBs also need to identify no. of manual scavengers in the city and reason for engaging into manual scavenging.
- **Septage treatment & disposal / Reuse** Herein the ULB identifies gaps & issues with respect to septage treatment and its safe disposal. The issues may include
  - o absence of septage treatment facility,
  - o ill effects due to disposal of untreated septage
  - o improper reuse of untreated septage.

# **Main issues of Septage Management:**

- 1. Both black water and grey water flowing in the same drain.
- 2. Households Septic tanks are connected to open drains.

# 7. Solid waste management

# <u>Primary collection</u>:

In Anantapuramu Municipal Corporation there are 220 push carts are available for door to door garbage collection.

# **Secondary Collection:**

12 No's of Auto's 13 transaction, 10 Hire tractors, 6 Tippers, 02 Dumper placer directly transportation the garbage to compost yard.

- There is no segregation and technical treatment for Solid Waste Management.
- There is no suitable dump yard and technical land fill is not available.
- The amount of garbage collected daily is 125 M.tones.
- Waste to energy plant is also going to set up in Anantapuramu for SWM treatment.

# **PUSH CARTS**

# **DRAIN CLEANING**





# **SWEEPING**

# **TRANSPORTATION**





# PIGS CATCHING







- **Primary collection** Herein the ULB identifies gaps & issues with respect to primary collection of solid waste according to the table below The issues may include
  - o unavailability (partially & fully) of door to door collection system,
  - o no source segregation,
  - o poor complaint redressal system and lack of operational,
  - o health & safety standards. Issues with respect to street sweeping and cleaning of surface drains also need to be identified here

**Table 12: Primary Collection of Solid waste** 

Ward No.			Total		If I	Household Door	to Door colle	ction system is a	ıvailable			sehold Door to system is no		
	Name	No. of HHs	waste generated (MT/day)	No. of HHs covered	Qty. of waste collected (MT/day)	Source segregation (Yes/No)	Waste collection frequency	Waste collection charges (Rs./month)	Existing manpower (Nos.)	Equipments used (Nos.)	Method of disposal	Qty of waste disposed (MT/day)	Location of Disposal	Remarks
1	M.G. Colony, Yerranela kottalu, Revenue Colony, Shirid inagar	1388	2.25	1277	2.16	Yes	Daily		8	5	-	-	-	-
2	Nirmalanand nagar, HLC canal, Band Hats, Bindela colony, Vinayaka nagar, Arveti nagar, Bhagya nagar	1268	2.30	1167	2.21	Yes	Daily	House holds Rs.30/-,	9	7	-	-	-	-
3	Venugopal nagar, Tarakapuram kottalu, Tarakapuram	1388	2.64	1277	2.53	Yes	Daily	Shops – Rs.50/- & Hotels	9	6	-	-	-	-
4	Ramachandra nagar, Revenue colony, Shiridi nagar	1298	2.21	1194	2.12	Yes	Daily	Rs.100/-	8	7	-	-	-	-
5	Srinivasa nagar, Khaja nagar, Chapalagunta colony, RTC Busstand road, RF	1328	2.86	1222	2.75	Yes	Daily		8	6	-	-	-	-

road  Neeruganti veedhi , Venugopal nagar  Neeruganti veedhi	1352	2.68							$\top$	T .	$\top$	Τ ,	
, Venugopal nagar	1352	2.68	┰ ,		1								
Neeruganti veedhi	1 '		1244	2.57	Yes	Daily		9	5	-	-	-	-
	1329	2.22	1223	2.13	Yes	Daily		8	6	-	-	-	-
Rani nagar, Vinayaka nagar	1343	2.45	1236	2.35	Yes	Daily		10	5	-	-	-	-
Ferro nagar, Bhavaninagar Srikrishna devaraya nagar, vinayaka nagar	1328	2.50	1222	2.40	Yes	Daily		12	6		-	-	-
Rajamma colony, Ambarapu veedhi, Gadangi veedhi, Tadipatri road, Gooty road	1312	2.09	1207	2.01	Yes	Daily	House holds Rs.30/-,	10	7	-	-	-	-
Ambarapu veedhi, Amudala street, Gandhi Bazar	1328	2.89	1222	2.77	Yes	Daily	Shops – Rs.50/-	8	6	-	-	-	-
Thilak road, Kuruba veedhi, bramhana veedhi	1331	2.05	1225	1.97	Yes	Daily	Rs.100/-	9	5	-	-	-	-
Uma nagar, Roshan Nagar, Ramaswamy Temple area, Thilak road, Gooty road, Neeruganti veedhi	1358	2.56	1249	2.46	Yes	Daily		12	6	-	-	-	-
Subash road, Rajaji Veedhi, Uma nagar	1290	2.94	1187	2.82	Yes	Daily		8	6	-	-	-	-
,	Ferro nagar, Bhavaninagar Srikrishna devaraya nagar, vinayaka nagar  Rajamma colony, Ambarapu veedhi, Gadangi veedhi, Tadipatri road, Gooty road  Ambarapu veedhi, Amudala street, Gandhi Bazar  Thilak road, Kuruba veedhi, bramhana veedhi  Uma nagar, Roshan Nagar, Ramaswamy Temple area, Thilak road, Gooty road, Neeruganti veedhi  Subash road, Rajaji Veedhi,	Ferro nagar, Bhavaninagar Srikrishna devaraya nagar, vinayaka nagar  Rajamma colony, Ambarapu veedhi, Gadangi veedhi, Tadipatri road, Gooty road  Ambarapu veedhi, Amudala street, Gandhi Bazar  Thilak road, Kuruba veedhi, bramhana veedhi  Uma nagar, Roshan Nagar, Ramaswamy Temple area, Thilak road, Gooty road, Neeruganti veedhi  Subash road, Rajaji Veedhi, 1290	Ferro nagar, Bhavaninagar Srikrishna devaraya nagar, vinayaka nagar  Rajamma colony, Ambarapu veedhi, Gadangi veedhi, Tadipatri road, Gooty road  Ambarapu veedhi, Amudala street, Gandhi Bazar  Thilak road, Kuruba veedhi, bramhana veedhi  Uma nagar, Roshan Nagar, Ramaswamy Temple area, Thilak road, Gooty road, Neeruganti veedhi  Subash road, Rajaji Veedhi, 1290 2.43  2.43  2.43	Ferro nagar, Bhavaninagar Srikrishna devaraya nagar, vinayaka nagar  Rajamma colony, Ambarapu veedhi, Gadangi veedhi, Tadipatri road, Gooty road  Ambarapu veedhi, Amudala street, Gandhi Bazar  Thilak road, Kuruba veedhi, bramhana veedhi  Uma nagar, Roshan Nagar, Ramaswamy Temple area, Thilak road, Gooty road, Neeruganti veedhi  Subash road, Rajaji Veedhi, 1290 2.94 1187	Ferro nagar, Bhavaninagar Srikrishna devaraya nagar, vinayaka nagar  Rajamma colony, Ambarapu veedhi, Gadangi veedhi, Tadipatri road, Gooty road  Ambarapu veedhi, Amudala street, Gandhi Bazar  Thilak road, Kuruba veedhi, bramhana veedhi  Uma nagar, Roshan Nagar, Ramaswamy Temple area, Thilak road, Gooty road, Neeruganti veedhi  Subash road, Rajaji Veedhi, 1290 2.43  1230 2.43  1222 2.40  2.40	Ferro nagar, Bhavaninagar Srikrishna devaraya nagar, vinayaka nagar 1328 2.50 1222 2.40 Yes   Rajamma colony, Ambarapu veedhi, Gadangi veedhi, Tadipatri road, Gooty road 1312 2.09 1207 2.01 Yes   Ambarapu veedhi, Amudala street, Gandhi Bazar 1328 2.89 1222 2.77 Yes   Thilak road, Kuruba veedhi, bramhana veedhi 1331 2.05 1225 1.97 Yes   Uma nagar, Roshan Nagar, Ramaswamy Temple area, Thilak road, Gooty road, Neeruganti veedhi 1358 2.56 1249 2.46 Yes   Subash road, Rajaji Veedhi, 1290 2.94 1187 2.82 Yes	Ferro nagar, Bhavaninagar Srikrishna devaraya nagar, vinayaka nagar 1328 2.50 1222 2.40 Yes Daily  Rajamma colony, Ambarapu veedhi, Gadangi veedhi, Gooty road 1312 2.09 1207 2.01 Yes Daily  Ambarapu veedhi, Amudala street, Gandhi Bazar 1328 2.89 1222 2.77 Yes Daily  Thilak road, Kuruba veedhi, bramhana veedhi Uma nagar, Roshan Nagar, Ramaswamy Temple area, Thilak road, Gooty road, Neeruganti veedhi Subash road, Rajaji Veedhi, 1290 2.94 1187 2.82 Yes Daily	Ferro nagar, Bhavaninagar Srikrishna devaraya nagar, vinayaka nagar   1328   2.50   1222   2.40   Yes   Daily	Rani nagar, Vinayaka nagar	Rani nagar, Vinayaka nagar   1343   2.45   1236   2.35   Yes   Daily   10   5	Rani nagar, Vinayaka nagar	Rani nagar	Rani nagar

15	Kamala nagar, Raju road, RF road, Subash road	1388	3.86	1277	3.71	Yes	Daily		9	7	-	-	-	-
16	Kamalanagar, Municipal colony, Srinivasa nagar, Venkata Reddy colony, DCMS road, RF road, Subash road	1268	3.01	1167	2.89	Yes	Daily		8	7	-	-	-	-
17	Gulzarpet, Adimurthy nagar, Subash road	1388	2.63	1277	2.52	Yes	Daily		8	5	-	-	-	-
18	Gulzarpet, Patel road, Sing street, Umapthi road, court road, malleswari road, Subash road	1342	2.08	1235	2.00	Yes	Daily		9	6	-	-	-	-
19	Prakash road, Rahamath nagar, Baba nagar, Govt Hospital road	1387	2.36	1276	2.27	Yes	Daily	House holds Rs.30/-,	9	5	-	-	-	-
20	Obuladeva nagar, Sai nagar, Subash road, Rajini bar street	1282	2.41	1179	2.31	Yes	Daily	Shops – Rs.50/- & Hotels	8	6	-	-	-	-
21	Sai nagar, Ammavari Cheruvu kottalu	1342	2.20	1235	2.11	Yes	Daily	- Rs.100/-	8	6	-	-	-	-
22	Boya street, Sangamesh nagar, Surya nagar road	1327	2.54	1221	2.44	Yes	Daily		9	5	-	-	-	-
23	Vegetable street, memin street, Asar street, Ambedkar nagar,	1388	2.32	1277	2.23	Yes	Daily		9	6	-	-	-	-

	munna nagar													
24	Collector office road, Sangamesh nagar, Maruvakomma colony, buddappa nagar colony, Drivers colony	1359	2.11	1250	2.03	Yes	Daily		10	5	-	-	-	-
25	Ashok nagar , Drivers colony	1298	2.74	1194	2.63	Yes	Daily		11	5	-	-	-	-
26	Ammavari cheruvu kottalu, Sai nagar	1313	2.40	1208	2.30	Yes	Daily		12	7	-	-	-	-
27	Harihara nagar, Ashok nagar, Jesus nagar, Vidyut nagar	1328	2.29	1222	2.20	Yes	Daily		9	6	-	-	-	-
28	Venkateswar nagar, Novodaya colony, Housing Board colony	1337	2.03	1230	1.95	Yes	Daily	House holds Rs.30/-,	8	7	-	-	-	-
29	Vincent ferror colony, Vijayanagar colony, Engineering college road, R.D.T area, Sarada nagar	1298	2.90	1194	2.78	Yes	Daily	Shops – Rs.50/- & Hotels Rs.100/-	9	5	-	-	-	-
30	Bangalore road, JNTU college road, Tarakanath colony , Sarada nagar, SBI colony, Navodaya colony	1296	2.89	1192	2.77	Yes	Daily		8	6	-	-	-	-
31	Housing board colony, Hamali	1298	2.25	1194	2.16	Yes	Daily		8	5	-	-	-	-

	1					I		Ī						
	colony													
32	Vidyut nagar, obuladeva nagar, Adarsh nagar, new Vidyut colony,F.C.I. colony, Shivaji nagar, prasannaya palli road	1282	2.30	1179	2.21	Yes	Daily		9	5	-	-	-	,
33	Govt Hospital road,obuladeva nagar, Aravind nagar, Krupananda nagar	1331	2.25	1225	2.16	Yes	Daily		9	8	-	-	-	-
34	Prasannayapalli road, Krupananda nagar, Srikrishna devaraya nagar, Naik nagar	1297	2.08	1193	2.00	Yes	Daily		9	5	-	-	-	-
35	Ramnagar, Maruthi nagar, Railway trac , Mangalavari colony	1326	2.33	1220	2.24	Yes	Daily		8	6	-	-	-	-
36	Mangalavari colony, Venkata rao nagar, Adarsh colony, Srinagar colony, Andhra Bank colony, 80 feet Ayyappa swamy temple road	1297	2.89	1193	2.77	Yes	Daily	House holds Rs.30/-, Shops – Rs.50/-	8	7	-	-	-	-
37	Ramnagar main road, Ram nagar, Railway track line	1268	2.54	1167	2.44	Yes	Daily	Rs.100/-	8	6	-	-	-	-
38	Kovur nagar,	1273	2.54	1171	2.44	Yes	Daily		9	6	-	-	-	-

	Mahammad nagar													
39	Lakshmi nagar, Kovur nagar, PTC compound	1279	2.38	1177	2.28	Yes	Daily		9	5	-	-	-	-
40	Ballary road, Kld road, N.H. 7,Satyadeva nagar, Vadde colony, Azad nagar, Parvathama colony	1266	2.22	1165	2.13	Yes	Daily		8	5	-	-	-	-
41	NH7, George pet, Ballary road, Hanuman road, Yuvajana colony, Kylasam road	1357	2.39	1248	2.29	Yes	Daily		8	5	-	-	-	-
42	Indira nagar, LB nagar, Hyderavali colony, Kylasam road, 6throad, Ballary road, NH7	1328	2.42	1222	2.32	Yes	Daily		9	7	-	-	-	-
43	5 <sup>th</sup> road, Georgpet, Yerukalavari colony	1266	2.44	1165	2.34	Yes	Daily		9	7	-	-	-	-
44	5 <sup>th</sup> road, 1 <sup>st</sup> road, Georgpet	1280	2.86	1178	2.75	Yes	Daily		8	6	-	-	-	-
45	Georgpet, 1 <sup>st</sup> road, 5 <sup>th</sup> road, Railway track.	1315	2.25	1210	2.16	Yes	Daily	House holds Rs.30/-,	8	6	-	-	-	-
46	Nehrupoormen colony, 5 <sup>th</sup> road, Somanath nagar road	1297	2.67	1193	2.56	Yes	Daily	Shops – Rs.50/- & Hotels	9	5	-	-	-	-

47	Nehrupoormen colony, Somanath nagar , Sunitha nagar part	1297	2.54	1193	2.44	Yes	Daily	Rs.100/-	10	6	-	-	-	-
48	Rajak nagar, KK nagar, Santhi nagar, Somanath nagar road	1327	2.89	1221	2.77	Yes	Daily		11	6	-	-	-	,
49	2 <sup>nd</sup> road, Indira Gandhi kottalu, Ganga nagar, RK nagar, Thirumala nagar	1312	2.44	1207	2.34	Yes	Daily		10	6	-	-	-	-
50	1 <sup>st</sup> road, HLC colony, Dwaraka nagar, Sunitha nagar part, pedda mutyalamma colony, 2 <sup>nd</sup> road	1322	2.91	1216	2.79	Yes	Daily		9	5	-	-	-	-

**Secondary collection** – Herein the ULB identifies gaps & issues with respect to secondary collection of solid waste according to the following tables : **Table 13: Secondary Collection of Solid waste** 

Ward No. & Name	Ward population	Waste generated (MT/day)	If Community bins are available for secondary collection				If Community bins are not available for secondary collection				
			No. of community bins available	Location of bins	Capacity of bins (MT)	Collection frequency	System of collection (type and number of vehicle used)	Reason for unavailability of bins	Disposal arrangement	Location of disposal	Remarks
50	66000	125	23 bins 45 tralies		0.5tonne 1.5tonne	Daily	Auto -12 no's Tipper 06 no's Dumper Placer 02 no's Tractors – 13 no's Hire tractors 10	-	-	-	

# 8. Storm water management

- **Storm water drainage system**-Herein the ULB identifies gaps & issues with respect to storm water drainage system according to the table below. The issues may include
  - o poor functional status of storm water drains (eg. broken),
  - o clogging of storm water drains due to solid waste dumping,
  - o waste water discharged into storm water drains and etc.

Table 14: Storm water drainage system

	Length of roads (km)	Constructed Drains							
Zone / Catchm ent		Length (km)	Type (Surface, covered, etc.)	Functional status	Disposal arrangement	Length (km)	Functional status	Disposal arrangement	Remarks
1	361.9			Good levels with flowing with gravity levels	Maruva vanka & Nadimi vanka	262.42	Flowing natural	Maruva vanka & Nadimi vanka	

# MARUVA VANKA



# **NADIMI VANKA**



- **Water logging / flooding**—Herein the ULB identifies gaps & issues with respect to water logging according to the following table

**Table 15: Water logging / Flooding** 

Zone	Location / wards	Frequency (No. per year)	Reasons	Remarks
	Janasakthi nagar, Uma nagar, Rani nagar, Bhavani nagar, Somnath nagar, Shiridi nagar	Yearly once	Low-lying areas	

## **Main issues of Storm Water Management:**

- 1. No Proper connecting drains
- 2. Lack of UGD scheme

#### **Main issues of Water Bodies:**

1. All sullage drains and storm water drains existing in the town, the flows are letting out in to Maruva vanka and Nadimi Vanka and hence connecting at tail ends of Tadakaleru.

# 9 Environmental management of water bodies





#### 10. Institutional & Governance

This section will identify gaps and issues related to Institution and Governance with relevance to sanitation related sector:

- **Institutional arrangement** – Herein the ULB identifies issues related to Institutional arrangement with relevance to sanitation sector. The following table indicates all responsible institutions (state and city level) for each part of the planning and delivery of sanitation services and should help with the analysis.

Table 16: Institutional arrangements for all water and sanitation services

Urban Services	Institutions in charge of planning	Institutions in charge of implementation	Institutions in charge of O&M	Institutions in charge of collecting user charges
Water Supply	Engineering Section	Engineering Section	Engineering Section	Revenue section
Sewerage	Engineering Section	Engineering Section	Engineering Section	
Septage Management	Engineering Section	Engineering Section	Engineering Section	
Storm Water Drainage	Engineering Section	Engineering Section	Engineering Section	
SWM	Public Health Section	Public Health Section	Public Health Section	
<b>Public Toilets</b>	Engineering Section	Engineering Section	Engineering Section	

Issues under institutional arrangements may include

- o vacant post related to sanitation sector in the ULB,
- o lack of coordination between various sanitation related departments of ULB,
- o poor inter-institutional coordination mechanism (ULB, Parastatals, PHED, NGOs, SPCB),
- overlapping / diffused / unclear roles & responsibilities (with respect to planning, implementation, O&M and M&E) concerning water supply, public toilets, waste water, septage management, storm water, water bodies & solid waste management.
- **Governance** Herein the ULB identifies issues related to Governance with relevance to sanitation sector. The issues may include
  - o weak regulations & its poor enforcement,

- o poor citizen grievance redressal system,
- o improper management of private service providers,
- o lack of e-governance,
- o absence of reforms leading to poor services
- o absence of required municipal bye-laws
- **Inclusiveness** Herein the ULB identifies issues related to inclusiveness of the existing sanitation system. This section should show the issues especially important to women and the urban poor and their access to sanitation services
  - inadequate community participation,
  - no involvement of women & urban poor in planning processes
  - Lack of sanitation services in slum settlements
  - weak policies or schemes for sanitation service delivery to women & urban poor
  - inadequate implementation of these policies
  - lack of budgets reserved for urban poor and women.

For analyzing the situation of governance in the city, please follow the SWOT (Strengths, Weaknesses, Opportunities, Threats) Analysis.

## Strengths

Examples (to be replaced):

- -) Bye-law for waste water recycling in place
- -) CSTF is formed

#### Weaknesses

Examples (to be replaced):

- -) No clear division of responsibilities in ULB -)absence of required municipal bye-laws
- **SWOT** Analysis

#### **Opportunities**

Examples (to be replaced):

- -) New recruitment sactioned by state government
- -) Slum Level Federation is part of CSTF and can provide slum perspective

#### **Threats**

Examples (to be replaced):

- -) No budget available for possible projects in slum settlements
  - -) Lack of interest of other dept. in cooperation

#### **Main issues of Governance:**

- 1. Lack of enforcement of Rules & Regulations.
- 2. Lack of co-ordination & communication between the departments.
- 3. Lack of capacity enhancement.

#### 11. Municipal Finance

This section will identify gaps and issues related to Municipal finances with relevance to sanitation related sectors. The issues may include

- poor cost recovery from water supply, public toilets, waste water and solid waste management,
- poor collection efficiency for cost of services,
- lack of budget for efficient O&M of existing assets,
- poor asset management,
- dependency on state / central support for implementing / improving sanitation services,
- excessive expenditure for managing solid waste,
- high establishment cost for managing sanitation services,
- lack of financial reforms (eg. double entry accounting) & monitoring mechanisms for transparency
- lack of incentive &punitive measures to increase fund flow.

#### Main issues of Municipal Finance:

- 1. Poor recovery of taxes.
- 2. Poor collection efficiency for cost of services.

#### 12. Capacity Enhancement

This section will identify gaps and issues related to Capacity Enhancement of Institution / Human resources for improving the sanitation services. The issues may include

- lack of sufficient staff in various categories,
- lack of capacities (technical & managerial)
- lack of capacities for new technologies and innovative projects
- lack of planned capacity building strategy for improving sanitation services

The ULB identifies gaps and issues related to capacities with relevance to sanitation related sector following the table below:

**Table 17: Capacity assessment** 

Institution/Depart ment(Engineering, Sanitation, Poverty Alleviation, etc)	Tasks to be performed	Permanent Staff	Contractual Staff	Gaps in Number	Gaps in Skills
Sanitation	To be provided	208	409		1. Lack of technical sanitary inspectors in ULB 2. Lack of sufficient staff 3. Lack of capacity for new technology and innovative projects.

## **Main issues of Capacity Enhancement:**

- 1. Lack of sufficient skilled staff in various categories.
- 2. Lack of capacities both technical and management.
- 3. Lack of capacities for new technology and innovative projects.

### 13. Health and Hygiene





# **SPRAYING**



# **Fogging**



#### **PYRETHRUM SPRAYING**

#### **LARVA EVACUATION**





### Main issues for Health and Hygiene:

- 1. Lack of Public awareness on health & Hygiene.
- 2. Prevalence of water born diseases.
- 3. Epidemics especially during monsoon.
- 4. Lack of co-ordination with NGO's & SHG's working on health.

## 14. City-wide Key Issues

Herein the ULB tries to summaries the issues described in above chapters in brief & crisp manner.

The ULB tries to identify the inter linkages between various issues in all the sectors (chapter 4 to 13) and finally summarizes & prioritizes the issues in the context of whole city and for achieving the vision. There should be maximum 8-10 city-wide issue! For each key issue, the ULB describes a brief rational for arriving at that key issue. The rationale includes the summary of the results from the data analysis, which gives evidence for this key issue.

Key Issue 1	Lack of Technical treatment of Solid Waste Management				
Rationale for	Waste to energy plant has been sanctioned and the above problem may be				
this key issue	solved.				

Key Issue 2	Water supply problem in some parts of the town
110) 1886.0 =	y weet supply process in some pures of the town
Rationale for	APMDP Scheme work is going on in the town and the problem may be
this key issue	solved.
tills key issue	solved.
Key Issue 3	ODF 100% by 2016
Key Issue 5	OD1 100% by 2010
Rationale for	Construction of IHHLs, Community Toilets & Public Toilets
this key issue	,
-	
Key Issue 4	Strom water management
Rationale for	Lack of UGD scheme, DPR has been prepared.
this key issue	- <del>-</del>
J	

### 15. City-wide Sanitation Vision

Herein the ULB prepares the vision which the city aspires to achieve in 30 years. The vision statement is to be developed with the CSTF to get all relevant stakeholders about.

### 16. Goals corresponding to city wide key – issues.

The sanitation vision is being concretized through goals, which ideally specify the situation to be achieved within a specified time frame. These goals correspond directly to the key issues which the ULBs have identified in chapter 14. The goals should follows the SMART rules (S.Specific, M-Measurable, A-Attainable, R-Relevant, T-Time bound).

**Table 19: Examples of potential goals** 

(Inputs in the columns are examples. Please adapt it for your city accordingly)

Key issues
Proper segregation and treatment – Not done.
Suitable dump yard – Technical land fill not
available
G.O No.279
Achievement of 100% ODF by 2016
Lack of Septic treatment for both black and
grey water are mixing in to the same drain
Lack of Enforcement of laws
Lack of Human Resource management
Lack of Cost recovery

# Please list the main goals for your city's CSP below:

SANITATION GOALS
Scientific treatment of 100%
Solid Waste Management. 100% ODF by
2016.
Convenience & Construction of drains by
2020
construction of Septic tanks. Capacity
development
Outsourcing and maintaining & percentage of
staff.
Cost recovery in time line by 20%.

# 17. Action Plan

Goal	Short term action	Responsible	Medium term	Responsible	Long term action	Responsible
		agency	action	agency		agency
100% ODF	Design awareness campaign for ODF and promote for construction of IHHLs	SHG's, NGO's, respective staff	Constructions of community toilets and Pay & use toilets	SHG's & NGO's	Construction of IHHLs	SHG's, NGO's, respective staff
100% Door to Door garbage collection	Primary collection and segregation	P.H.Staff	Removal of bins and other procedures of secondary collection	P.H.Staff	Primary collection and segregation from Door to Door and transportation directly to compost yard, treatment procedures should be done	P.H.Staff
Ensure Proper waste water (Sewreg & Septage) management	1. Identified and nominating of nodal department for septal management in ULB 2. There should not be mixing of gray with black water 3. Action on insanitary conditions 4. Proper septic tank management	Engineering section & PH.Section	1.Preparing & operational management for septic tank empting pride operators 2.Oraganize association of private desiding operators 3.Prepare bye laws for controlling illed open disposal of septage by pried operators	Engineering section & PH.Section	1.UGD 2.Construction & Commissing of STP	Engineering section

## 18. Cost estimates and investment plan for CSP

	2016–17 బడ్జెట్ వివరవ	သလ		ටාං.වදුිවෙන්
కోడ్.నెం:	ပိဆည်းရှိ နာထာ့ဗာ	2015-16 ಐಡ್ವರ್ಟ್ ಅಂచನಾ	2015-16 నవరించిన బడ్జెట్	2016-17 బడ్జెట్ అంచనా
	నిర్వహణ ఖర్చులు		20	as
3030	పారి-శుద్ధ్యపు పరికరములు కొనుగోలు కొరకు	0.00	10.00	10.00
3031	ఫాగింగ్ మిషన్ కొనుగోలు కొరకు	0.00	0.00	8,00
	మొత్తం (3030 - 3031)	-	10.00	18.00
3032	యం.సి.డబ్ల్యు సెంటర్ల నిర్వహణ	5.00	5.50	5.00
3033	జనన మరణాలను కంప్యూటరీకరణ చేయుటకు	0.00	2.00	5.00
3034	పల్స్ పోలియో ఖర్చులు	1.50	1.50	2.00
	మొత్తం (3032 - 3034)	6.50	9.00	12.00
3035	జంతుకళేభరాలు నిర్మూలన	1.00	0.00	1.00
3036	స్లాటర్ హౌస్ నిర్వహణ ఖర్చులు	0.00	0.00	1.00
3037	ఫాగింగ్ మరియు స్పెయింగ్ మందుల కొనుగోలు కొరకు	22.00	0.00	12.00
3038	ఇతర ఖర్చులు	15.00	0.00	10.00
	మొత్తం (3035 - 3038)	38.00	0.00	24.00
8039	మానవ మృత కళేబరాల నిర్మూలన	3.00	0.50	1.00
040	సున్నం, బ్లీచింగ్ పౌడర్ తదితర వాటికి	0.00	15.00	25.00
041	పారిశుద్ద్య అవుట్సోర్సింగ వర్మర్ల వేతనములు / పారిశుద్ద్య (ప్రైవేటీకరణ	600.00	480.00	600.00
042	యన్.యం.ఆర్స్ మరియు ఫిక్స్డ్ పే సిబ్బంది జీతాలు	6.00	20.00	20.00
043	పబ్లిక్ టాయిలెట్స్ నిర్వహణ	10.00	0.00	5.00
044	్రైవేట్ ట్రాక్టర్లు, ట్రాలీలు బాడుగ	100.00	100.00	140.00
	పారిశుద్ద్య కార్మికులకు దుస్తులు, చెప్పులు, కొబ్బెర నూనె సబ్బులు తదితర వాటి కొరకు	22.00	40.00	30.00
046	టైసైకిళ్ళు, పుష్కాట్ర్, డంపర్ బిన్స్ తదితర వాటి నిర్వహణ కొరకు	0.00	5.00	10.00

	2016-17 బడ్జెట్ వివరములు								
కోడ్.నెం :	రెవెన్యూ ఖర్చులు	2015-16 బడ్జెట్ అంచనా	2015-16 నవరించిన బడ్జెట్	రుం.లక్షలలాశ 2016-17 బడ్జెట్ అంచనా					
3047	డంపర్ బిన్స్, టైసైకిళ్ళు, పుష్కార్ట్స్, ప్లాస్టిక్ బిన్స్ తదితర కొనుగోలు/ నిర్వహణ కారకు	10.00	50.00	30.00					
3048	స్పీపింగ్మిషన్ కోనుగోలు / నిర్వహణ	0.00	45.00	5.00					
3049	ప్రత్యేక పారిశుధ్యమునకు / గార్బేజ్ క్లియరెన్స్	15.00	5.00	20.00					
3050	అంటువ్యాధుల నిర్మూలన కౌరకు	3.00	2,00	5.00					
3051	కుక్కల, పందుల, కోతుల, వీధి జంతువుల నిర్మూలన కొరకు	15.00	15.00	20.00					
3052	డంప్యార్జు నిర్వహణ	30.00	25.00	25.00					
	మొత్తం (3039 - 3052)	814.00	802.50	25.00					
53	వాహనము ఇన్సూరెన్స్ మరియు రిజి(స్టేషన్	9.00	9.00	<b>936.00</b> 12.00					
54	పెట్రోలు, డీజలు ఖర్చులు	96.00	96.00	100.00					
55	వాహనాల రిపేర్లకొరకు	29.00	28.00	35.00					
	మొత్తం (3053 - 3055)	134.00	133.00						
	ಮುತ್ತಂ (3030 - 3055)	992.50	954.50	147.00 1137.00					

<b>IEC Activities :</b>			
Giving awaren Waste Management, S	ness to the children Seasonal Diseases a		

Key	Issue 1:	Waste-water is not properly managed (i.e. treatment of waste-water), leading to unhy				•	
Goa	l :	Ensure proper waste-water (sewage & s	septage)		-		Jules
S.	Action F	conveyance, treatment & disposal) by 2 Points	Year 1	Year 2	Year 3	Year 4-5	Year
No.	<b>F</b> .1 //	Local at 10 MIOD and a feet in feet in feet	(Dec17) ✓	(Dec 18)	(Dec 19)	(Dec21)	5-10
1		hrough study) if UGD system is feasible & for the city. If Not feasible until when?	<b>V</b>				
2		ossibility of refurbishment of existing defunct	✓				
		ewer network (if any)					
3	Repair & network (i	Restoration of existing defunct STPs & Sewer if any)	<b>✓</b>	✓			
4		Ily segregated municipal budget heads related water services	<b>√</b>	✓			
5		ion and nomination of Nodal department for Management in the ULB	<b>✓</b>				
6	Explore feasibility for setting up a Septage Treatment Plant including identification of land & project design						
7	Building o	capacities within ULB for Septage management	<b>✓</b>	<b>√</b>			
8	Construct Plant (if a	ion & Commissioning of Septage Treatment pplicable)		✓	<b>✓</b>		
9	_	a registry / association of informal / private g operators	<b>√</b>	✓			
10		SOP / Operation Manual for septic tank private operators	<b>✓</b>				
11	Prepare b	bye-laws for controlling illegal open disposal of by private desludigng operators	✓				
12		e user charges for emptying of septic tanks	✓				
13	Explore o	ptions (study) for treatment of grey water & (effluent) from septic tanks		✓			
14	Initiate pro	oject for treatment for grey water & overflow from septic tanks in selected areas			✓		
15	Initiate pro	oject for treatment for grey water & overflow from septic tanks in entire town (in phased					<b>√</b>
16	· ·	euse and recycle opportunities	✓				
17		suse and recycle of atleast 20% of waste-water				✓	✓
18	environme	o untreated waste-water enters the ent (water bodies / land) – 100% safe nent of waste-water					<b>✓</b>
19		rigorous IEC activities for all stakeholders	✓	✓			
20		citizen care unit for septage management	<b>✓</b>				

ĸey	Issue 2:	Prevalence of insanitary toilets and improper Toilets, leading to detrimental environmental				na Commi	ınıty
Goa	l :	Ensure all existing and new toilets (IHHT				nd proper	rly
		maintained (to cover the current and futu		•	-	•	
S. No.	Action F	Points	Year 1 (Dec17)	Year 2 (Dec18)	Year 3 (Dec19)	Year 4-5 (Dec21)	Yea 5-10
1	environm	out an independent study to understand the ent and health hazards to the city due to waste-water management	<b>✓</b>				
2	Employm	00% enforcement of 'The Prohibition of ent as Manual Scavengers and their ation Act, 2013	<b>✓</b>				
3	Ensure pr	rovision of safe sanitation services for labourers ne Andhra Pradesh Municipalities Act, 1965'	<b>√</b>	<b>√</b>			
4	colonies, Institution	oye-laws for ensuring all upcoming Gated Apartments, Commercial establishments, as and Bus & Taxi stands plan for independent ation systems	✓				
5	Ensure U upcoming establishr	LB to give building permission only for all gated colonies, Apartments, Commercial ments, Institutions and Bus & Taxi stands with independent safe sanitation systems.	✓	✓			
6	Commerc	ll existing Gated colonies, Apartments, cial establishments, Institutions and Bus & Taxi ograde to safe sanitation systems.	<b>✓</b>	<b>✓</b>	✓		
7	digester,	est alternate safe sanitation systems (DRDO Bio- Aerobic Bio-tanks, Decentralized Treatment ) in Govt. institutions	<b>✓</b>	<b>✓</b>	<b>✓</b>		
8	Public / C	ipscaling of alternate safe sanitation systems in community Toilets, Gated Colonies, Apartments, cial establishments, Institutions		✓	✓		
9	Plan & Ini water in F	itiate steps for reuse / recycle of treated waste- Public / Community Toilets, Apartments, cial establishments, Institutions			✓	✓	<b>√</b>
10	Formation	of committee / task force for ensuring proper & maintenance of public and community toilets	<b>✓</b>				
11	Ensure al sanitation	ll community and public toilets have safe	<b>√</b>	<b>✓</b>			
12	Ensure de Public and	edicated Municipal budget for proper O&M of deficient of the Community Toilets	<b>√</b>	<b>✓</b>			
13	open pub	nent of mobile toilets by ULB for public during lic gatherings	<b>✓</b>				
14	discoursir	initiate steps (eg. spot fines) for controlling / ng open urination especially in public areas	<b>✓</b>				
15	tanks (as constructi Ensure se	oye-laws for standardization & design of septic per AP Building rules, 2012) for upcoming new ions. eptic tanks are planned & constructed as per before allocating building permission by the ULB	<b>✓</b>				
16	Prepare r	egistry (at ULB) of plumbers & masons skilled uction of septic tanks	<b>√</b>	<b>✓</b>			

17	Conduct training programmes for plumbers and masons regarding scientific designing of septic tanks	<b>✓</b>	<b>✓</b>		
18	Formation of dedicated committee / task force for ensuring safe sanitation in slum areas	<b>√</b>			
19	Identification of all insanitary sanitation systems (single pit latrines, damaged / defunct / ill constructed septic tanks, pit latrines / soak pits in high ground water table areas etc.) in the city	<b>✓</b>	<b>✓</b>		
20	Explore possibility (through study) of upgradation of all insanitary sanitation systems to sanitary sanitation systems		<b>✓</b>		
21	Upgradation of all insanitary sanitation systems to sanitary sanitation systems		<b>✓</b>	<b>✓</b>	
22	Explore CSR funding possibilities from Industry and Trade & Commerce associations for conversion of insanitary sanitation systems to safe sanitation systems		<b>✓</b>		
23	Involve Police department for lawful exercise / enforcement of bye-laws / Municipal Act	✓	<b>√</b>	<b>√</b>	
24	Organize rigorous IEC activities for all stakeholders.	✓	✓		
25	Take support from NGOs / CBOs/ SLFs, Ward Sabhas / Area Sabhas, RWAs, SLFs / TLFs, Industry and Trade & Commerce associations, NCC / NSS, Schools, town clubs and local Eminent personalities for IEC activities and regular monitoring	✓	<b>√</b>		
26	Formalize partnership with local academic and professional institutes (Colleges, ITIs, etc.) for supporting the ULBs in achieving improved sanitation (waste-water & solid waste management)	<b>✓</b>	<b>✓</b>		

Key	Issue 3:	Insufficient and inefficient Storm water mana	agement	leading t	o unheal	thy towns	
Goa	l:	Ensure comprehensive and efficient Stor	m water	manage	ement by	2019	
S. No.	Action F	Points	Year 1 (Dec17)	Year 2 (Dec18)	Year 3 (Dec19)	Year 4-5 (Dec21)	Year 5-10
1	Prepare N	Master Plan for Storm water management	✓				
2	Mapping	of existing Storm water drainage network	✓				
3		tion of funds for retrofitting & augmentation of ter drainage network	<b>√</b>				
4		DPR for retrofitting & augmentation of storm inage network	<b>√</b>				
5	Retrofittin	g of major drains	✓	✓			
6	Augmenta	ation of storm water drainage network		✓	✓		
7	Identificat	tion & Mapping of illegal Encroachment areas	<b>√</b>				
8	Plan and areas nea	initiate steps for clearing of illegal Encroachment ar drains	<b>✓</b>	<b>✓</b>			
9	Frame by	e-laws for controlling littering in drains	✓				
10	waste into	o ensure that sweepers do not dispose solid or drains, same staff that is responsible for street to be made responsible for cleaning surface drains (upto a depth of 45-60 cm)	<b>✓</b>				

11	Establish a monitoring system for cleaning & desilting of storm water drains (especially pre-monsoon) Ensure regular de-clogging of bottleneck points	<b>✓</b>	<b>√</b>			
12	Procurement of additional equipments / tools / vehicles (only if required) for desilting & de-clogging of storm water drains	<b>✓</b>	<b>✓</b>			
13	Ensure fully segregated Municipal budget for proper maintenance of Storm water drainage network	✓	<b>√</b>			
14	Identification & Mapping of water-logging areas in the entire town	<b>✓</b>				
15	Plan and initiate steps for eliminating incidences of water- logging in the entire town	<b>✓</b>	✓			
16	Ensure zero incidences of water logging in the town			✓	✓	
17	Initiate ground water recharge measures (eg. rainwater harvesting) in Govt. Institutions	<b>√</b>	<b>√</b>			
18	Upscale ground water recharge systems in Gated Colonies, Apartments, Commercial establishments, Institutions, etc.		<b>√</b>	<b>√</b>		
19	Explore (through study) options for ground water recharge (Source control options, Rain water harvesting, permeable pavements, retention & detention zones, etc)	<b>✓</b>				
20	Initiate steps for ground water recharge at town level (i.e. roads & streets)			<b>✓</b>	<b>√</b>	
21	Identification of illegal untreated effluent outflows from local industries in storm water drains	<b>√</b>				
22	Eliminate illegal untreated effluent outflows from local industries in storm water drains with support from PCB	<b>√</b>	✓	✓	<b>√</b>	
23	Ensure all surface water bodies (Cheruvus, streams, rivers) are pollution free				<b>✓</b>	

Key Issue 4:		Poor cost recovery and collection efficiency poor services to the citizens / users	in water	supply re	elated se	rvices lead	ling to
Goa	l:	Achieve at least 90% cost recovery and 9 supply related services by 2020	00% colle	ection ef	ficiency	in water	
S. No.	Action P	Year 1 (Dec17)	Year 2 (Dec18)	Year 3 (Dec19)	Year 4-5 (Dec21)	Year 5-10	
1		Ily segregated municipal budget heads related upply services	✓				
2	clear iden	g practice enables proper monitoring (including tification of collection against specific bills) of collections for each connection within the ULB	✓				
3	financial y	e operating revenues are collected in the same rear, without allowing for dues to get ted as arrears (less than 10 %)	<b>✓</b>	<b>✓</b>			
4	Carry out	Water & Energy Audit for Water supply services	✓	✓			
5	(NRW) an	a study for Assessment of Non-Revenue Water ad developing strategy and implementation plans ion of NRW	<b>✓</b>				

6	Initiate steps for controlling NRW to 15-20 % especially reducing Apparent water losses (illegal water	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>✓</b>	
	connections, water theft, metering inaccuracies)&Real water losses (leakages in the distribution networks)					
7	Ensure procurement of energy efficient (eg. solar) electro- mechanical equipments (pumps, motors) for future Govt. works	<b>√</b>	<b>✓</b>	<b>√</b>	<b>√</b>	
8	Initiate steps for making WTP (Water Treatment Plant) more energy efficient		<b>√</b>	<b>✓</b>		
9	Initiate practice of using Water efficient fixtures in future procurement for Govt. works	<b>✓</b>	✓			
10	Promote use of Water efficient fixtures especially in PT/CT, Gated Colonies, Apartments, Commercial establishments, Institutions, etc		<b>~</b>	<b>✓</b>		
11	Preach & practice use of waterless urinals in Pubic urinals, Commercial establishments, Institutions, Bus & Taxi stands	<b>✓</b>	<b>~</b>	<b>✓</b>		
12	Identify innovation schemes (incentives, rebate) for payment of dues for water supply charges	✓	<b>✓</b>			
13	Initiate schemes / incentives for reducing water usage, reuse of treated waste-water & practicing rainwater harvesting	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>✓</b>
14	Plan and initiate punitive measures for non-cooperation for water supply related services		<b>✓</b>	<b>✓</b>		
15	Mandatory installation of water meters for all non- residential users (Commercial establishments, Institutions and Industries)	<b>✓</b>	<b>✓</b>			
16	Explore feasibility and acceptability for water meters in residential areas (except slums)		✓	<b>✓</b>	✓	
17	Installation of water meters in residential areas (except slums) in phased manner (if possible)			✓	✓	
18	Ensure volumetric rate is charged for water supply services to all non-residential users (Commercials establishments, Institutions and Industries)	<b>✓</b>				
19	Prepare bye-law for differential rate for water usage and ensure adequate safeguards are included to take care of the interests of the vulnerable		<b>✓</b>			
20	Explore need for revision of user charges for all users (non-residential and residential)		<b>✓</b>			
21	Incrementally revise water supply user charges to improve cost recovery to 60%			<b>√</b>		
22	Incrementally revise water supply user charges to improve cost recovery to 90%				<b>✓</b>	
23	Ensure atleast 60% collection efficiency	✓	✓			
24	Achieve atleast 90 % collection efficiency from residential users		<b>✓</b>	<b>√</b>		
25	Achieve nearly 100 % collection efficiency from non- residential users (Commercial establishments, Institutions and Industries)		<b>✓</b>	<b>✓</b>		
26	If Municipal staff is insufficient for collection, explore possibility of outsourcing the activity of collecting water supply related charges to private operator through appropriate business model	<b>√</b>	<b>✓</b>			
27	If possible & viable, outsource the activity of collecting		✓	✓	✓	

	water supply related charges to private operator for entire town in phased manner				
28	Organize IEC campaign requesting cooperation from citizens for reducing wastage of water and payment of user charges	<b>✓</b>	<b>✓</b>		

Key	Issue 5:	Lack of skills / capacities (technical and mand departments makes it challenging for the Muland keep pace with the increasing demand sanitation sector.	unicipality	to perfo	rm day to	day fund	
Goal	:	Take-up upgradation of skills of all municactivity, aimed at achieving better compe	-			n and reg	ular
S. No.	Action P	oints	Year 1 (Dec17)	Year 2 (Dec18)	Year 3 (Dec19)	Year 4-5 (Dec21)	Year 5-10
1	capacity be conference all municipal Identificat	a system for inventory (Documentation) of building activities (trainings, workshops, less, exposure visit, etc.) undertaken / planned for bal staff including elected representatives ion & nomination of Nodal officer for maintaining arly updating the above system	<b>√</b>				
2	data sets	aff members responsible for filing & updating all collected under CSP, SLIP, Swachh an, GO 279, DPR	<b>✓</b>				
3	Conduct 7 staff	Fraining Needs Assessment for the Municipal		<b>✓</b>			
4		venues for capacity building with State under ogrammes SBM, AMRUT, etc.	<b>✓</b>				
5		egular review meetings with new sanitary n their challenges and achievements every 3	<b>✓</b>				
6	•	I new skills required of ULB staff members for s to be implemented		<b>✓</b>			
7		cal NGO to conduct training programme on y participation for ULB staff members		<b>√</b>			
8	Establish in the mur	an internship/trainee programme for local Youth nicipality.	<b>✓</b>				
9	implemen	incentives for municipal staff to achieve tation of CSP action points (award, participation , newspaper article)	<b>✓</b>				
10		competition for local Youth/IT College/Start-up online application for ULB and train municipal		<b>✓</b>			
11		e progress with respect to capacity building & opriate actions as required		<b>✓</b>	<b>✓</b>		

Key	Issue 6:	Lack of inefficient and unscientific sol	id waste	manage	ment lea	iding to	
		unclean and unhealthy city					
Goal	:	Achieve Service Level Benchmarks (as d management by 2020	lefined by	MoUD)	in Solid v	waste	
S. No.	Action Poi	nts	Year 1 (Dec17)	Year 2 (Dec18)	Year 3 (Dec19)	Year 4-5 (Dec21)	Year 5-10
1	<ul> <li>Definition</li> <li>Identification</li> <li>health we outsourc</li> <li>Tenderinand trans</li> </ul>	g & selection of private parties for collection sportation	<b>✓</b>				
2	processing fa applicable)	& possession of land for landfill facility, acility and material recovery facility (if	<b>✓</b>	<b>√</b>			
3		for source segregation to poor households	✓				
4		6 source segregation in phased manner	<b>✓</b>	<b>✓</b>	✓		
5	·	en dumping points in a phased manner	<b>✓</b>	✓			
6	•	onal protection equipments (uniforms, hand s, masks, etc.) to workers handling solid	<b>✓</b>				
7	<ul><li>banning</li><li>plastic</li><li>banning</li><li>managi</li><li>(marria</li></ul>	aws for ling littering & open dumping (spot fines) g of plastic carry bags as per the provision of waste management rules 2016 g burning of solid waste ing waste generated in public gatherings ges, etc.) lentation of SWM rules, 2016	<b>~</b>				
8	Involve Polic laws/Municip	e Dept. for exercise/enforcement of bye- oal Act	<b>√</b>	✓	<b>√</b>		
9	Plan for mat material	terial recovery facility for sorting of recyclable	<b>✓</b>	<b>✓</b>			
10		er management of plastic waste	✓	✓	✓		
11	<u> </u>	ste collection centres	✓	✓			
12	•	waste collection centres	✓				
13	•	tegy for managing disposable waste (eg. disposal waste, involve disposable waste etc.)	<b>✓</b>	<b>√</b>			
14	Initiate steps of disposal p	for extended responsibility of manufactures roducts		<b>✓</b>	<b>✓</b>		
15		to make unused / inefficient compost plant	<b>√</b>				
16		decentralized management of organic waste ses of Govt. institutions	<b>√</b>				
17	managemen	caling of decentralized organic waste t for Gated Colonies, Apartments, establishments and Institutions, etc.		✓	<b>✓</b>		

18	Explore support from NBCC (as per the request from SBM-MoUD) for Bio-mining / Bio-remediation or capping of old and abandoned dump site	<b>✓</b>				
19	Explore possibility of cooperation between ULBs & BSNL as per MoU between BSNL & MoUD for providing eSBM platform for SWM in ULBs.	<b>✓</b>				
20	Ensure revised master plan has land provisions for setting up processing facility & landfill site	<b>✓</b>				
21	Establish a system to recognize organizations of waste pickers & waste dealers & facilitate their participation in effective SWM Initiate registration of waste pickers & waste dealers	<b>√</b>				
22	Fix user charges for all non-residential users (Commercial establishments, Institutions and Industries)	<b>✓</b>				
23	Fix user charges for residential users		✓			
24	Initiate steps for improving the cost recovery & collection efficiency for SWM services		<b>√</b>	<b>√</b>	✓	
25	Organize rigorous IEC activities for all stakeholders.	✓	✓			
26	Take support from NGOs / CBOs/ SLFs, Ward Sabhas / Area Sabhas, RWAs, SLFs / TLFs, Industry and Commerce associations, NCC / NSS, Schools, town clubs and local Eminent personalities for IEC activities and regular monitoring	✓	<b>✓</b>			
27	Formalize partnership with local academic and professional institutes (Colleges, ITIs, etc.) for supporting the ULBs in achieving improved sanitation (WW&SWM)	<b>✓</b>	<b>✓</b>			
28	Ensure consistent improvement in all subsequent Swachh Sarvekshan ranking exercises. Bottom line being to be in the first 150 towns in the upcoming round.	<b>✓</b>	<b>✓</b>			
29	Mainstream Swachhata App rolled out by SBM, MoUD in the ULB / city	✓				

