

ANANTAPURAMU MUNICIPAL CORPORATION



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. Awareness, Generation and Behaviour change,
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.

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

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

Ward. No.	Name	Area (Hectare)	No. of House holds	Population			Density (persons / Hectare)
				Total	Male	Female	
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
21	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, Jesus nagar, Vidyut nagar	35.06	1299	5272	2735	2538	150.37
28	Venkateswar nagar, Novodaya colony, Housing Board colony	44.05	1306	5368	2693	2676	121.86
29	Vincent ferrer 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 track, 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
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, 6th road, Ballary road, NH7	24.28	1358	5408	2713	2697	222.73
43	5 th road, Georgpet, Yerukalavari colony	8.07	1264	5163	2648	2517	639.78
44	5 th road, 1 st road, Georgpet	10.5	1255	5384	2778	2608	512.76
45	Georgpet, 1 st road, 5 th road, Railway track.	37.12	1289	5174	2584	2591	139.39
46	Nehrupoormen colony, 5 th 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 nd road, Indira Gandhi kottalu, Ganga nagar, RK nagar, Thirumala nagar	30.28	1257	5204	2614	2592	171.86
50	1 st road, HLC colony, Dwaraka nagar, Sunitha nagar part, pedda mutyalamma colony , 2 nd road	47.07	1323	5227	2612	2616	111.05
		1633.85	62991	261004	130777	130227	

Table 2: Slum data

Sr. No.	Slum Name	Location / Ward	Category (Notified, Recognized, Identified)	Area (Hectare)	No. of Households	Population			Density (persons / Hectare)
						Total	Male	Female	
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	2244.89
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 Nagireddy colony	12	Notified	10.39	115	500	300	200	487.49
17	Munna nagar	22	Notified	2.25	490	2692	1615	1077	2244.89
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	2244.89
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

	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
43	Nehru poormen colony	46	Notified	8.07	329	1944	1166	778	639.78

Non Notified Slums									
44	Hyder vali colony	42	Non notified	24.28	22	86	52	34	222.73
45	Satyadevaraya nagar	40	Non notified	37.12	69	409	245	164	139.39
46	Besides Judicial Colony		Non notified	11.29	24	174	104	70	452.44
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 Ferrer nagar	29	Non notified	91.01	137	620	372	248	57.96
51	Surya nagar, Beside Hamali colony	31	Non notified	64.71	45	192	115	77	80.96
52	Sri Krishna devaraya nagar	9	Non notified	32.34	75	106	64	42	163.20
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 muthyalamma colony	47	Non notified	14.42	52	264	158	106	360.89
57	Hanuman colony	41	Non notified	44.45	110	420	252	168	113.14
58	Ammavari cheruvu kottala-2	21	Non notified	13.99	108	402	241	161	387.28
59	Shiridi nagar	1	Non notified	47.18	121	838	503	335	110.51
60	Sangamitra nagar	35	Non notified	76.44	232	1211	727	484	66.14
61	Venkata reddy colony	16	Non notified	38.06	111	621	373	248	138.57

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 census 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 is 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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[illegible]

Table 4: Zonal level Water supply

Zone No	Zone name	Reservoir Type	Capacity (KL)	Wards served	No. of HH	No. of connections	Water Quality	Per capita supply (Adequate, Inadequate)	Frequency of water supply	Hours of supply	Pressure Adequate/Inadequate	Remarks
Zone -1	SBI colony 1	ELSR	1000	28 (Part)	459	115	Portable	Adequate	Once in a day	2	Adequate	
Zone -2	SBI colony 2	ELSR	800	28 (Part)	784	196	Portable	Adequate	Once in a day	2	Adequate	
Zone -3	Vidyuth nagar	ELSR	500	25 (Part) 12 (Part)	1009	252	Portable	Adequate	Once in a day	2	Adequate	
Zone 4	Adarsha nagar	ELSR	500	12 (Part)	550	138	Portable	Adequate	Once in a day	2	Adequate	
Zone 5	Aravind nagar	ELSR	950	11 (Part)	248	62	Portable	Adequate	Once in a day	2	Adequate	
Zone 6	Sangamitra nagar	ELSR	500	6 (Part)	682	171	Portable	Adequate	Once in a day	2	Adequate	
Zone 7	Srinagar colony	ELSR	400	6 (Part)	682	171	Portable	Adequate	Once in a day	2	Adequate	
Zone 8	RMH school-1	ELSR	500	26, 27, 28 (Part)	918	230	Portable	Adequate	Once in a day	2	Adequate	
Zone 9	RMH School-2	ELSR	600	28 (Part)	458	115	Portable	Adequate	Once in a day	2	Adequate	
Zone 10	Sangameshwara nagar	ELSR	700	12 (Part) 28 (Part)	1008	252	Portable	Adequate	Once in a day	2	Adequate	
Zone 11	Municipal Gym	ELSR	500	11 (Part) 12 (Part) 15 (Part)	997	249	Portable	Adequate	Once in a day	2	Adequate	
Zone 12	SE HLC	ELSR	500	11 (Part)	798	200	Portable	Adequate	Once in a day	2	Adequate	

				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	Portable	Adequate	Once in a day	2	Adequate	
Zone 28	Gourav garden	ELSR	750	1 (Part)	783	196	Portable	Adequate	Once in a day	2	Adequate	
Zone 29	Somnath nagar	ELSR	450	4 (Part)	311	78	Portable	Adequate	Once in a day	2	Adequate	
Zone 30	Laxmi nagar	ELSR	500	6 (Part)	682	171	Portable	Adequate	Once in a day	2	Adequate	
Zone 31	A Fisheries	ELSR	600	13 (Part), 17 (part), 18 (part)	2285	571	Portable	Adequate	Once in a day	2	Adequate	
Zone 32	RK nagar	ELSR	750	1 (part)	781	195	Portable	Adequate	Once in a day	2	Adequate	
Zone 33	Srinagar coloy	ELSR	500	6 (Part)	682	171	Portable	Adequate	Once in a day	2	Adequate	

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)

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

Table 7: Community Toilets Blocks

Sr. No.	Location / Ward	No. of Population dependent	No of Seats		No of Urinals		Waste disposal arrangement (sewered, septic tank, open drains, etc)	Functional status (water, lighting, etc)	Design consideration for men & women (privacy) – Yes / No	Is complaint redressal system available?	Owned & Maintained by	User charges (Rs)	Cost Recovery (%)	Remarks
			Men	Women	Men	Women								
1	Umanagar	108	5	5	5	5	Septic tank	Yes	Yes	Yes	NGO organization	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.	Location / Ward	No. of floating population dependent	No of Seats		No of Urinals		Waste disposal arrangement (sewered, septic tank, open drains, etc)	Functional status (water, lighting, etc)	Design consideration for men & women (privacy) – Yes / No	Complaint redressal system available	Owned & Maintained by	User charges (Rs)	Cost Recovery (%)	Remarks
			Men	Women	Men	Women								
1	Suryanagar	125	3	3	4	4	Septic tank	Yes	Yes	Yes	NGO organization	Rs.2/-	80%	
2	PTC ground	98	2	2	3	3	Septic tank	Yes	Yes	Yes		Rs.2/-	82%	
3	Police Complex	138	3	3	4	4	Septic tank	Yes	Yes	Yes		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.

Sl.No	No. of Households	Waste water disposal arrangement for toilets (No.)							No. of Insanitary latrines
		Sewerage system	Septic tank		Soak pit	Pit Latrines	Open drains	Other	
			Connected to soak pit	Connected to open drain					
1	66000	IHL	54786	11214	48775	6011	11214	-	--

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
 - non-conformity of the design of existing septic tanks in the city to IS 2470 (Part 1)- 1985,
 - septic tanks are single chambered and are not water tight,
 - septic tanks are broken and are of inadequate size,
 - grey water is entering the septic tanks,
 - septic tanks are inaccessible for cleaning,
 - design of septic tanks is not controlled through building / planning rules
 - 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
 - lack of data on private operators involved in dislodging & transportation of septage,
 - the private operators are not authorized and not regulated,
 - dislodging of septic tanks is not carried out regularly (once in every 2-3 years),
 - dislodging service is inadequate to meet existing / future demand,
 - 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
 - absence of septage treatment facility,
 - ill effects due to disposal of untreated septage
 - 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

Primary collection :

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
 - unavailability (partially & fully) of door to door collection system,
 - no source segregation,
 - poor complaint redressal system and lack of operational,
 - 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.	Name	No. of HHs	Total waste generated (MT/day)	If Household Door to Door collection system is available							If Household Door to Door collection system is not available			Remarks
				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	
1	M.G. Colony, Yerranela kottalu, Revenue Colony, Shiridi nagar	1388	2.25	1277	2.16	Yes	Daily	House holds Rs.30/-, Shops – Rs.50/- & Hotels Rs.100/-	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		9	7	-	-	-	-
3	Venugopal nagar, Tarakapuram kottalu, Tarakapuram	1388	2.64	1277	2.53	Yes	Daily		9	6	-	-	-	-
4	Ramachandra nagar, Revenue colony, Shiridi nagar	1298	2.21	1194	2.12	Yes	Daily		8	7	-	-	-	-
5	Srinivasa nagar, Khaja nagar, Chapalagunta colony, RTC Busstand road, RF	1328	2.86	1222	2.75	Yes	Daily		8	6	-	-	-	-

	road													
6	Neeruganti veedhi , Venugopal nagar	1352	2.68	1244	2.57	Yes	Daily		9	5	-	-	-	-
7	Neeruganti veedhi	1329	2.22	1223	2.13	Yes	Daily		8	6	-	-	-	-
8	Rani nagar, Vinayaka nagar	1343	2.45	1236	2.35	Yes	Daily		10	5	-	-	-	-
9	Ferro nagar, Bhavaninagar Srikrishna devaraya nagar, vinayaka nagar	1328	2.50	1222	2.40	Yes	Daily		12	6	-	-	-	-
10	Rajamma colony, Ambarapu veedhi, Gadangi veedhi, Tadipatri road, Gooty road	1312	2.09	1207	2.01	Yes	Daily	House holds Rs.30/-, Shops – Rs.50/- & Hotels Rs.100/-	10	7	-	-	-	-
11	Ambarapu veedhi, Amudala street, Gandhi Bazar	1328	2.89	1222	2.77	Yes	Daily		8	6	-	-	-	-
12	Thilak road, Kuruba veedhi, bramhana veedhi	1331	2.05	1225	1.97	Yes	Daily		9	5	-	-	-	-
13	Uma nagar, Roshan Nagar, Ramaswamy Temple area, Thilak road, Gooty road, Neeruganti veedhi	1358	2.56	1249	2.46	Yes	Daily		12	6	-	-	-	-
14	Subash road, Rajaji Veedhi, Uma nagar	1290	2.94	1187	2.82	Yes	Daily		8	6	-	-	-	-

	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	House holds Rs.30/-, Shops – Rs.50/- & Hotels Rs.100/-	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		8	7	-	-	-	-
37	Ramnagar main road, Ram nagar, Railway track line	1268	2.54	1167	2.44	Yes	Daily		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 th road, Georgpet, Yerukalavari colony	1266	2.44	1165	2.34	Yes	Daily		9	7	-	-	-	-
44	5 th road, 1 st road, Georgpet	1280	2.86	1178	2.75	Yes	Daily		8	6	-	-	-	-
45	Georgpet, 1 st road, 5 th road, Railway track.	1315	2.25	1210	2.16	Yes	Daily	House holds Rs.30/-,	8	6	-	-	-	-
46	Nehrupoormen colony, 5 th 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 nd road, Indira Gandhi kottalu, Ganga nagar, RK nagar, Thirumala nagar	1312	2.44	1207	2.34	Yes	Daily		10	6	-	-	-	-
50	1 st road, HLC colony, Dwaraka nagar, Sunitha nagar part, pedda mutyalamma colony , 2 nd 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			Remarks
			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	
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
 - poor functional status of storm water drains (eg. broken),
 - clogging of storm water drains due to solid waste dumping,
 - waste water discharged into storm water drains and etc.

Table 14: Storm water drainage system

Zone / Catchment	Length of roads (km)	Constructed Drains				Natural Drains			Remarks
		Length (km)	Type (Surface, covered, etc.)	Functional status	Disposal arrangement	Length (km)	Functional status	Disposal arrangement	
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	
Public Toilets	Engineering Section	Engineering Section	Engineering Section	

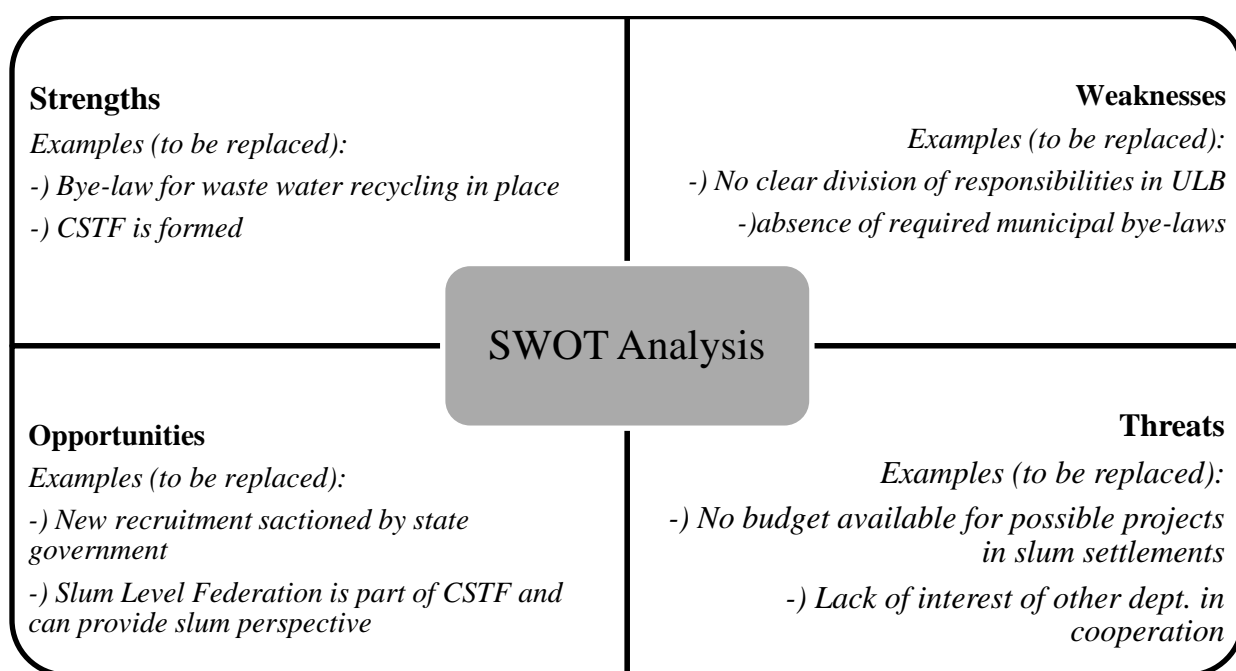
Issues under institutional arrangements may include

- vacant post related to sanitation sector in the ULB,
- lack of coordination between various sanitation related departments of ULB,
- 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
 - weak regulations & its poor enforcement,

- poor citizen grievance redressal system,
 - improper management of private service providers,
 - lack of e-governance,
 - absence of reforms leading to poor services
 - 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.



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/Department(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



**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 this key issue	Waste to energy plant has been sanctioned and the above problem may be solved.

Key Issue 2	Water supply problem in some parts of the town
Rationale for this key issue	APMDP Scheme work is going on in the town and the problem may be solved.
Key Issue 3	ODF 100% by 2016
Rationale for this key issue	Construction of IHHLs, Community Toilets & Public Toilets
Key Issue 4	Strom water management
Rationale for this key issue	Lack of UGD scheme, DPR has been prepared.

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 follow 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 agency	Medium term action	Responsible agency	Long term action	Responsible 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 (Sewerage & Septage) management	1. Identified and nominating of nodal department for septage 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 emptying pride operators 2.Oraganize association of private desludging operators 3.Prepare bye laws for controlling of open disposal of septage by	Engineering section & PH.Section	1.UGD 2.Construction & Commisssing of STP	Engineering section

18. Cost estimates and investment plan for CSP

నరరపాలక సంస్థ, అనంతపురము				
2016-17 బడ్జెట్ వివరములు				
కోడ్.నెం:	రెవెన్యూ ఖర్చులు	2015-16 బడ్జెట్ అంచనా	2015-16 నవరించిన బడ్జెట్	గూ.లక్షలలో 2016-17 బడ్జెట్ అంచనా
	నిర్వహణ ఖర్చులు			
3030	పారిశుధ్య పరికరములు కొనుగోలు కొరకు	0.00	10.00	10.00
3031	ఫాగింగ్ మిషన్ కొనుగోలు కొరకు	0.00	0.00	3.00
	మొత్తం (3030 - 3031)	-	10.00	13.00
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	జంతుశరీరాలు నిర్మూలన	1.00	0.00	1.00
3036	స్ట్రాటర్ 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
3039	మానవ మృత కళేబరాల నిర్మూలన	3.00	0.50	1.00
3040	సున్నం, బ్లీచింగ్ పౌడర్ తదితర వాటికి	0.00	15.00	25.00
3041	పారిశుధ్య అవుట్సోర్సింగ్ వర్కర్ల వేతనములు / పారిశుధ్య ప్రైవేటీకరణ	600.00	480.00	600.00
3042	యన్.యం.ఆర్స్ మరియు ఫిక్స్డ్ పే సిబ్బంది జీతాలు	6.00	20.00	20.00
3043	పబ్లిక్ టాయిలెట్స్ నిర్వహణ	10.00	0.00	5.00
3044	ప్రైవేట్ ట్రాక్టర్లు, ట్రాలీలు బాడుగ	100.00	100.00	140.00
3045	పారిశుధ్య కార్మికులకు దుస్తులు, చెప్పులు, కొబ్బరి నూనె సబ్బులు తదితర వాటి కొరకు	22.00	40.00	30.00
3046	ట్రైసికిక్లు, పుష్కర్తి, డంపర్ బిన్స్ తదితర వాటి నిర్వహణ కొరకు	0.00	5.00	10.00

నగరపాలక సంస్థ, అనంతపురము

2016-17 బడ్జెట్ వివరములు

కోడ్.నెం :	రెవెన్యూ ఖర్చులు	2015-16 బడ్జెట్ అంచనా	2015-16 నవరించిన బడ్జెట్	రూ.లక్షలలో 2016-17 బడ్జెట్ అంచనా
3047	డంపర్ బిస్కెట్, ట్రైస్కిళ్ళు, పుష్కాద్స్, ప్లాస్టిక్ బిస్కెట్ తదితర కొనుగోలు/ నిర్వహణ కొరకు	10.00	50.00	30.00
3048	స్పీడింగ్ మిషన్ కొనుగోలు / నిర్వహణ	0.00	45.00	5.00
3049	ప్రత్యేక పారిశుధ్యమునకు / గార్బేజ్ క్లియరెన్స్	15.00	5.00	20.00
3050	అంటువ్యాధుల నిర్మూలన కొరకు	3.00	2.00	5.00
3051	కుక్కల, పందుల, కోతుల, వీధి జంతువుల నిర్మూలన కొరకు	15.00	15.00	20.00
3052	డంప్ యార్డు నిర్వహణ	30.00	25.00	25.00
	మొత్తం (3039 - 3052)	814.00	802.50	936.00
3053	వాహనము ఇన్సూరెన్స్ మరియు రిజిస్ట్రేషన్	9.00	9.00	12.00
3054	పెట్రోలు, డీజలు ఖర్చులు	96.00	96.00	100.00
3055	వాహనాల రిపేర్లకొరకు	29.00	28.00	35.00
	మొత్తం (3053 - 3055)	134.00	133.00	147.00
	మొత్తం (3030 - 3055)	992.50	954.50	1137.00

IEC Activities :

Giving awareness to the children of both private and public schools regarding Solid Waste Management, Seasonal Diseases and personal Hygiene, making rallies and by miking.

Key Issue 1:		Waste-water is not properly managed (i.e. there is no proper collection, conveyance & treatment of waste-water), leading to unhygienic conditions & pollution of water bodies				
Goal :		Ensure proper waste-water (sewage & septage) management (collection, conveyance, treatment & disposal) by 2020				
S. No.	Action Points	Year 1 (Dec17)	Year 2 (Dec 18)	Year 3 (Dec 19)	Year 4-5 (Dec21)	Year 5-10
1	Explore (through study) if UGD system is feasible & practical for the city. If Not feasible until when?	✓				
2	Explore possibility of refurbishment of existing defunct STPs & Sewer network (if any)	✓				
3	Repair & Restoration of existing defunct STPs & Sewer network (if any)	✓	✓			
4	Ensure fully segregated municipal budget heads related to waste-water services	✓	✓			
5	Identification and nomination of Nodal department for Septage Management in the ULB	✓				
6	Explore feasibility for setting up a Septage Treatment Plant including identification of land & project design	✓				
7	Building capacities within ULB for Septage management	✓	✓			
8	Construction & Commissioning of Septage Treatment Plant (if applicable)		✓	✓		
9	Organize a registry / association of informal / private desludging operators	✓	✓			
10	Prepare SOP / Operation Manual for septic tank emptying private operators	✓				
11	Prepare bye-laws for controlling illegal open disposal of septage by private desludging operators	✓				
12	Regularize user charges for emptying of septic tanks	✓				
13	Explore options (study) for treatment of grey water & overflow (effluent) from septic tanks		✓			
14	Initiate project for treatment for grey water & overflow (effluent) from septic tanks in selected areas			✓		
15	Initiate project for treatment for grey water & overflow (effluent) from septic tanks in entire town (in phased manner)					✓
16	Explore reuse and recycle opportunities	✓				
17	Ensure reuse and recycle of atleast 20% of waste-water				✓	✓
18	Ensure no untreated waste-water enters the environment (water bodies / land) – 100% safe management of waste-water					✓
19	Organize rigorous IEC activities for all stakeholders	✓	✓			
20	Organize citizen care unit for septage management within the ULB	✓				

Key Issue 2:		Prevalence of insanitary toilets and improper maintenance of Public and Community Toilets, leading to detrimental environmental and health hazards				
Goal :		Ensure all existing and new toilets (IHHT, PT & CT) are sanitary and properly maintained (to cover the current and future demand) by 2019				
S. No.	Action Points	Year 1 (Dec17)	Year 2 (Dec18)	Year 3 (Dec19)	Year 4-5 (Dec21)	Year 5-10
1	Carryout out an independent study to understand the environment and health hazards to the city due to improper waste-water management	✓				
2	Ensure 100% enforcement of 'The Prohibition of Employment as Manual Scavengers and their Rehabilitation Act, 2013	✓				
3	Ensure provision of safe sanitation services for labourers as per 'The Andhra Pradesh Municipalities Act, 1965'	✓	✓			
4	Prepare bye-laws for ensuring all upcoming Gated colonies, Apartments, Commercial establishments, Institutions and Bus & Taxi stands plan for independent safe sanitation systems	✓				
5	Ensure ULB to give building permission only for all upcoming Gated colonies, Apartments, Commercial establishments, Institutions and Bus & Taxi stands with plans for independent safe sanitation systems.	✓	✓			
6	Ensure all existing Gated colonies, Apartments, Commercial establishments, Institutions and Bus & Taxi stands upgrade to safe sanitation systems.	✓	✓	✓		
7	Try and test alternate safe sanitation systems (DRDO Bio-digester, Aerobic Bio-tanks, Decentralized Treatment units, etc.) in Govt. institutions	✓	✓	✓		
8	Plan for upscaling of alternate safe sanitation systems in Public / Community Toilets, Gated Colonies, Apartments, Commercial establishments, Institutions		✓	✓		
9	Plan & Initiate steps for reuse / recycle of treated waste-water in Public / Community Toilets, Apartments, Commercial establishments, Institutions			✓	✓	✓
10	Formation of committee / task force for ensuring proper operation & maintenance of public and community toilets	✓				
11	Ensure all community and public toilets have safe sanitation systems	✓	✓			
12	Ensure dedicated Municipal budget for proper O&M of Public and Community Toilets	✓	✓			
13	Procurement of mobile toilets by ULB for public during open public gatherings	✓				
14	Plan and initiate steps (eg. spot fines) for controlling / discouraging open urination especially in public areas	✓				
15	Prepare bye-laws for standardization & design of septic tanks (as per AP Building rules, 2012) for upcoming new constructions. Ensure septic tanks are planned & constructed as per bye-laws before allocating building permission by the ULB	✓				
16	Prepare registry (at ULB) of plumbers & masons skilled for construction of septic tanks	✓	✓			

17	Conduct training programmes for plumbers and masons regarding scientific designing of septic tanks	✓	✓			
18	Formation of dedicated committee / task force for ensuring safe sanitation in slum areas	✓				
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	✓	✓			
20	Explore possibility (through study) of upgradation of all insanitary sanitation systems to sanitary sanitation systems		✓			
21	Upgradation of all insanitary sanitation systems to sanitary sanitation systems		✓	✓		
22	Explore CSR funding possibilities from Industry and Trade & Commerce associations for conversion of insanitary sanitation systems to safe sanitation systems		✓			
23	Involve Police department for lawful exercise / enforcement of bye-laws / Municipal Act	✓	✓	✓		
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	✓	✓			
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)	✓	✓			

Key Issue 3:		Insufficient and inefficient Storm water management leading to unhealthy towns				
Goal:		Ensure comprehensive and efficient Storm water management by 2019				
S. No.	Action Points	Year 1 (Dec17)	Year 2 (Dec18)	Year 3 (Dec19)	Year 4-5 (Dec21)	Year 5-10
1	Prepare Master Plan for Storm water management	✓				
2	Mapping of existing Storm water drainage network	✓				
3	Identification of funds for retrofitting & augmentation of storm water drainage network	✓				
4	Prepare DPR for retrofitting & augmentation of storm water drainage network	✓				
5	Retrofitting of major drains	✓	✓			
6	Augmentation of storm water drainage network		✓	✓		
7	Identification & Mapping of illegal Encroachment areas near drains	✓				
8	Plan and initiate steps for clearing of illegal Encroachment areas near drains	✓	✓			
9	Frame bye-laws for controlling littering in drains	✓				
10	In order to ensure that sweepers do not dispose solid waste into drains, same staff that is responsible for cleaning street to be made responsible for cleaning adjacent surface drains (upto a depth of 45-60 cm)	✓				

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

Key Issue 4:		Poor cost recovery and collection efficiency in water supply related services leading to poor services to the citizens / users				
Goal :		Achieve at least 90% cost recovery and 90% collection efficiency in water supply related services by 2020				
S. No.	Action Points	Year 1 (Dec17)	Year 2 (Dec18)	Year 3 (Dec19)	Year 4-5 (Dec21)	Year 5-10
1	Ensure fully segregated municipal budget heads related to water supply services	✓				
2	Accounting practice enables proper monitoring (including clear identification of collection against specific bills) of billing and collections for each connection within the ULB	✓				
3	Ensure the operating revenues are collected in the same financial year, without allowing for dues to get accumulated as arrears (less than 10 %)	✓	✓			
4	Carry out Water & Energy Audit for Water supply services	✓	✓			
5	Carry out a study for Assessment of Non-Revenue Water (NRW) and developing strategy and implementation plans for reduction of NRW	✓				

6	Initiate steps for controlling NRW to 15-20 % especially reducing Apparent water losses (illegal water 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	✓	✓	✓	✓	
8	Initiate steps for making WTP (Water Treatment Plant) more energy efficient		✓	✓		
9	Initiate practice of using Water efficient fixtures in future procurement for Govt. works	✓	✓			
10	Promote use of Water efficient fixtures especially in PT/CT, Gated Colonies, Apartments, Commercial establishments, Institutions, etc		✓	✓		
11	Preach & practice use of waterless urinals in Pubic urinals, Commercial establishments, Institutions, Bus & Taxi stands	✓	✓	✓		
12	Identify innovation schemes (incentives, rebate) for payment of dues for water supply charges	✓	✓			
13	Initiate schemes / incentives for reducing water usage, reuse of treated waste-water & practicing rainwater harvesting	✓	✓	✓	✓	✓
14	Plan and initiate punitive measures for non-cooperation for water supply related services		✓	✓		
15	Mandatory installation of water meters for all non-residential users (Commercial establishments, Institutions and Industries)	✓	✓			
16	Explore feasibility and acceptability for water meters in residential areas (except slums)		✓	✓	✓	
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)	✓				
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		✓			
20	Explore need for revision of user charges for all users (non-residential and residential)		✓			
21	Incrementally revise water supply user charges to improve cost recovery to 60%			✓		
22	Incrementally revise water supply user charges to improve cost recovery to 90%				✓	
23	Ensure atleast 60% collection efficiency	✓	✓			
24	Achieve atleast 90 % collection efficiency from residential users		✓	✓		
25	Achieve nearly 100 % collection efficiency from non-residential users (Commercial establishments, Institutions and Industries)		✓	✓		
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	✓	✓			
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	✓	✓			

Key Issue 5:		Lack of skills / capacities (technical and managerial) with the Municipal staff in all departments makes it challenging for the Municipality to perform day to day functions and keep pace with the increasing demand in services and developments in sanitation sector.				
Goal :		Take-up upgradation of skills of all municipal staff as mainstream and regular activity, aimed at achieving better competency and efficiency				
S. No.	Action Points	Year 1 (Dec17)	Year 2 (Dec18)	Year 3 (Dec19)	Year 4-5 (Dec21)	Year 5-10
1	Establish a system for inventory (Documentation) of capacity building activities (trainings, workshops, conferences, exposure visit, etc.) undertaken / planned for all municipal staff including elected representatives Identification & nomination of Nodal officer for maintaining and regularly updating the above system	✓				
2	Identify staff members responsible for filing & updating all data sets collected under CSP, SLIP, Swachh Survekshan, GO 279, DPR	✓				
3	Conduct Training Needs Assessment for the Municipal staff		✓			
4	Explore avenues for capacity building with State under various programmes SBM, AMRUT, etc.	✓				
5	Conduct regular review meetings with new sanitary workers on their challenges and achievements every 3 months	✓				
6	Identify all new skills required of ULB staff members for new DPRs to be implemented		✓			
7	Identify local NGO to conduct training programme on community participation for ULB staff members		✓			
8	Establish an internship/trainee programme for local Youth in the municipality.	✓				
9	Introduce incentives for municipal staff to achieve implementation of CSP action points (award, participation in training, newspaper article)	✓				
10	Launch a competition for local Youth/IT College/Start-up to design online application for ULB and train municipal staff		✓			
11	Monitor the progress with respect to capacity building & take appropriate actions as required		✓	✓		

Key Issue 6:		Lack of inefficient and unscientific solid waste management leading to unclean and unhealthy city				
Goal:		Achieve Service Level Benchmarks (as defined by MoUD) in Solid waste management by 2020				
S. No.	Action Points	Year 1 (Dec17)	Year 2 (Dec18)	Year 3 (Dec19)	Year 4-5 (Dec21)	Year 5-10
1	Timely implementation of GO 279 <ul style="list-style-type: none"> - Definition of micro pockets - Identification of works to be carried out by municipal health workers and works which need to be outsourced - Tendering & selection of private parties for collection and transportation 	✓				
2	Identification & possession of land for landfill facility, processing facility and material recovery facility (if applicable)	✓	✓			
3	Provide bins for source segregation to poor households	✓				
4	Ensure 100% source segregation in phased manner	✓	✓	✓		
5	Eliminate open dumping points in a phased manner	✓	✓			
6	Ensure personal protection equipments (uniforms, hand gloves, boots, masks, etc.) to workers handling solid waste	✓				
7	Frame bye-laws for <ul style="list-style-type: none"> - controlling littering & open dumping (spot fines) - banning of plastic carry bags as per the provision of plastic waste management rules 2016 - banning burning of solid waste - managing waste generated in public gatherings (marriages, etc.) - implementation of SWM rules, 2016 	✓				
8	Involve Police Dept. for exercise/enforcement of bye-laws/Municipal Act	✓	✓	✓		
9	Plan for material recovery facility for sorting of recyclable material	✓	✓			
10	Ensure proper management of plastic waste	✓	✓	✓		
11	Set up E-waste collection centres	✓	✓			
12	Set up C&D waste collection centres	✓				
13	Prepare strategy for managing disposable waste (eg. discouraging disposal waste, involve disposable waste generators, etc.)	✓	✓			
14	Initiate steps for extended responsibility of manufactures of disposal products		✓	✓		
15	Initiate steps to make unused / inefficient compost plant fully functional	✓				
16	Try and test decentralized management of organic waste within premises of Govt. institutions	✓				
17	Plan for upscaling of decentralized organic waste management for Gated Colonies, Apartments, Commercial establishments and Institutions, etc.		✓	✓		

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	✓				
19	Explore possibility of cooperation between ULBs & BSNL as per MoU between BSNL & MoUD for providing eSBM platform for SWM in ULBs.	✓				
20	Ensure revised master plan has land provisions for setting up processing facility & landfill site	✓				
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	✓				
22	Fix user charges for all non-residential users (Commercial establishments, Institutions and Industries)	✓				
23	Fix user charges for residential users		✓			
24	Initiate steps for improving the cost recovery & collection efficiency for SWM services		✓	✓	✓	
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	✓	✓			
27	Formalize partnership with local academic and professional institutes (Colleges, ITIs, etc.) for supporting the ULBs in achieving improved sanitation (WW&SWM)	✓	✓			
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.	✓	✓			
29	Mainstream Swachhata App rolled out by SBM, MoUD in the ULB / city	✓				

