

**GOVERNMENT OF INDIA**  
**MINISTRY OF HOUSING AND URBAN AFFAIRS**  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 1989**  
**TO BE ANSWERED ON AUGUST 07, 2023**  
**SURVEY OF STORMWATER DRAINAGE SYSTEMS**

**NO. 1989. SHRI S NIRANJAN REDDY:**

**Will the Minister of HOUSING AND URBAN AFFAIRS be pleased to state:**

- (a) whether Government intends to conduct a survey to check the status of stormwater drainage systems in the country;
- (b) if not, the reasons therefor;
- (c) the steps taken by Government to aid States in digitising the sewage networks in the country;
- (d) the progress on digitising sewage networks in Andhra Pradesh, district-wise; and
- (e) the steps taken by Government to improve the drainage systems in the country?

**ANSWER**

**THE MINISTER OF STATE IN**  
**THE MINISTRY OF HOUSING AND URBAN AFFAIRS**  
**(SHRI KAUSHAL KISHORE)**

(a) & (b): Management of urban flooding falls under purview of the State Governments and the Urban Local Bodies (ULBs)/ Urban Development Authorities who are responsible for maintaining the drainage system, however, Ministry of Housing and Urban Affairs (MoHUA) supplements the efforts of the States and Urban Local Bodies in these sectors through its various flagship programs. Further, Government of Andhra Pradesh has plans to conduct such a survey in the State of Andhra Pradesh.

(c): Atal Mission for Rejuvenation and Urban Transformation (AMRUT) & AMRUT 2.0 Missions comprise of large infrastructure projects such as water supply, sewerage and septage management, storm water drainage systems etc. These projects include smart elements/ equipment/ instrumentation/ technologies such as sensors, decanters, Programmable Logic Controller (PLC) and Supervisory Control and Data Acquisition (SCADA) water meters, valve fittings, automated sewer cleaning systems etc. with employing Artificial intelligence (AI)/ Internet of things (IoT) technologies in real time. AMRUT 2.0 supports innovative, use of low-cost indigenous equipment and processes through Technology submission encouraging entrepreneurs & start-ups.

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Further, formulation of Geographical Information System (GIS) based Master plans for AMRUT cities is one of the important reforms to be implemented at State level by the ULBs. The objective is to develop common digital geo-referenced base maps and land use maps using GIS and Master Plan Formulation for the AMRUT cities. For planned urban development, preparation of GIS based Master Plan has been taken up in 461 AMRUT cities which will result in efficient urban governance through various layers such as property tax, water, sewage network coverage and green area coverage etc. Final plans have been prepared for 175 towns and draft plans are ready for another 159 towns.

(d): The district-wise status of Sewage Treatment Plants (STPs) of Andhra Pradesh is placed at ANNEXURE. However, the district-wise progress on digitising sewage networks in Andhra Pradesh is not maintained by MoHUA.

(e): Under AMRUT, in Storm Water Drainage Sector, 719 projects worth ₹1,622 crore have been completed and 93 projects worth ₹1,376 crore are under implementation across 19 States/ Union Territories (UTs). Through storm water drainage projects, around 3,319 water logging points have been eliminated against the target of 3,783 points. Additionally, 1,073 km drainage network has been developed under the scheme so far against target of 1,625 km. Further, MoHUA has issued Standard Operating Procedures (SoPs) on Urban Flooding in 2017 and published manual on Storm Water Drainage Systems, 2019 to assist the States/ Union Territories (UTs) and Urban Local Bodies (ULBs) and other stakeholders on the planning, design, operation and maintenance of Storm water drainage systems and to assist all States/ UTs

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**ANNEXURE REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 1989 REGARDING “SURVEY OF STORMWATER DRAINAGE SYSTEMS”, DUE FOR ANSWER IN THE RAJYA SABHA ON 07 AUGUST, 2023**

**DISTRICT-WISE STATUS OF STPS THROUGH DIGITISED SYSTEM IN ANDHRA PRADESH**

S.No.	Name of the Municipality/Municipal Corporation	Name of the Scheme	No of STPs	Capacity in MLD
1	Srikakulam	AMRUT 1.0	1	10.00
		AMRUT 2.0	1	5.00
2	Amadalavalasa	S B M 2.0	15	7.25
3	Ichapuram	S B M 2.0	4	6.40
4	Palasa Kasibugga	S B M 2.0	4	10.74
<b>Srikakulam District Total</b>			25	39.39
5	Vizianagaram	AMRUT 1.0	1	5.00
6	Rajam	S B M 2.0	10	8.70
7	Bobbili	S B M 2.0	9	9.20
8	Nellimarla	S B M 2.0	1	4.00
<b>Anakapalli District Total</b>			21	26.903
9	Narsipatnam	S B M 2.0	5	9.90
10	Yellamanchali	S B M 2.0	12	6.67
<b>Vizianagaram District Total</b>			17	16.571
11	GVMC	Smart City Funds	1	54.00
			1	54.00
		AMRUT 2.0	1	5.00
<b>Visakhapatnam District Total</b>			3	113
12	Rajamahendravaram	AMRUT 1.0	1	5.00
13	Nidadavole	S B M 2.0	2	6.70
14	Kovvur	S B M 2.0	2	6.00
<b>East Godavari District Total</b>			5	17.7
15	Amalapuram	S B M 2.0	3	7.96
16	Ramachandrapuram	S B M 2.0	1	6.70
17	Mandapeta	S B M 2.0	2	8.70
18	Mumidivaram	S B M 2.0	1	4.10
<b>Konaseema District Total</b>			7	27.462
19	Kakinada	AMRUT 1.0	1	5.00
		AMRUT 2.0	1	23.00
20	Tuni	S B M 2.0	1	8.70
21	Samalkot	S B M 2.0	1	8.60
22	Pithapuram	S B M 2.0	8	8.10
23	Peddapuram	S B M 2.0	2	7.65
24	Gollaprollu	S B M 2.0	1	3.90
25	Yeleswaram	S B M 2.0	1	4.70
<b>Kakinada District Total</b>			16	69.65
26	Eluru	AMRUT 1.0	1	5.00
		AMRUT 2.0	1	21.40
27	Jangareddy Gudem	S B M 2.0	2	9.50
28	Nuzivid	S B M 2.0	3	10.03
<b>Eluru District Total</b>			7	45.93
29	Bhimavaram	AMRUT 1.0	1	5.00
		AMRUT 2.0	1	1.86
30	Tadepalligudem	AMRUT 1.0	1	5.00
		AMRUT 2.0	1	7.26
31	Palacole	S B M 2.0	2	9.10
32	Narsapur	S B M 2.0	2	8.50
33	Tanuku	S B M 2.0	3	10.84
<b>West Godavari District Total</b>			11	47.56
34	Machilipatnam	AMRUT 1.0	1	5.00

S.No.	Name of the Municipality/Municipal Corporation	Name of the Scheme	No of STPs	Capacity in MLD
		AMRUT 2.0	1	10.14
35	Gudivada	AMRUT 1.0	1	5.00
		AMRUT 2.0	1	24.78
36	Pedana	S B M 2.0	3	4.35
37	Vuyyuru	S B M 2.0	2	7.00
<b>Krishna District Total</b>			9	56.27
38	Vijayawada	JnNURM	1	20.00
		AMRUT 2.0	1	20.00
39	Tiruvuru	S B M 2.0	5	8.34
40	Jaggiahpeta	S B M 2.0	2	10.40
41	Nandigama	S B M 2.0	3	7.71
<b>N.T.R. District Total</b>			12	66.45
42	Guntur	OTSFA	5	123.00
		AMRUT 2.0	1	9.82
43	Tenali	AMRUT 1.0	1	12.00
		AMRUT 2.0	1	8.00
44	Ponnur	S B M 2.0	2	8.29
<b>Guntur District Total</b>			10	161.11
45	Narasaraopet	AMRUT 2.0	1	3.00
46	Chilakaluripet	AMRUT 1.0	1	5.00
		AMRUT 2.0	1	15.50
47	Macherla	S B M 2.0	1	9.90
48	Sattenapalli	S B M 2.0	1	9.47
49	Piduguralla	S B M 2.0	4	12.22
50	Vinukonda	S B M 2.0	2	11.20
<b>Palnadu District Total</b>			11	66.29
51	Repalle	S B M 2.0	2	8.00
52	Bapatla	S B M 2.0	3	10.18
53	Chirala	S B M 2.0	2	12.12
54	Addanki	S B M 2.0	2	9.40
<b>Baptla District Total</b>			9	39.70
55	Ongole	AMRUT 1.0	1	15.00
		AMRUT 2.0	1	27.63
56	Kanigiri	AIIB	1	6.00
57	Markapur	S B M 2.0	2	12.74
58	Giddalur	S B M 2.0	1	6.10
59	Chimakurthy	S B M 2.0	1	5.90
<b>Prakasam District Total</b>			7	73.37
60	Nellore	HUDCO	1	55.00
			1	5.00
			1	11.00
			1	20.00
			2	14.00
			AMRUT 2.0	1
61	Kavali	AMRUT 1.0	1	15.00
		AMRUT 2.0	1	3.73
62	Kandukur	S B M 2.0	2	9.74
63	Atmakur	S B M 2.0	4	5.20
<b>Nellore District Total</b>			15	146.68
64	Sullurpet	AIIB	3	8.00

S.No.	Name of the Municipality/Municipal Corporation	Name of the Scheme	No of STPs	Capacity in MLD
65	Tirupathi	Smart City Funds	1	25.00
66	Srikalahasthi	AMRUT 1.0	1	7.00
67	Gudur	S B M 2.0	3	14.01
68	Venkatagiri	S B M 2.0	2	9.92
69	Naidupet	S B M 2.0	2	8.69
<b>Tirupathi District Total</b>			12	72.61
70	Ananthapuram	AMRUT 1.0	1	10.00
		AMRUT 2.0	1	25.00
71	Guntakal	AMRUT 1.0	1	8.00
		AMRUT 2.0	1	2.24
72	Tadipatri	AMRUT 2.0	1	8.50
73	Rayadurg	S B M 2.0	1	10.70
74	Gooty	S B M 2.0	2	8.00
75	Kalyandurgam	S B M 2.0	1	8.00
<b>Anantapur District Total</b>			9	80.44
76	Hindupur	AMRUT 2.0	1	23.00
77	Dharmavaram	AMRUT 1.0	2	8.00
		AMRUT 2.0	1	8.66
78	Madakasira	AIIB	1	5.00
79	Kadiri	S B M 2.0	1	14.90
<b>Sri Satya Sai District Total</b>			6	59.56
80	Kurnool	AMRUT 1.0	2	12.00
		AMRUT 2.0	1	39.54
81	Adoni	AMRUT 1.0	1	5.00
		AMRUT 2.0	1	21.45
82	Gudur	S B M 2.0	1	3.80
<b>Kurnool District Total</b>			6	81.79
83	Nandikotkur	AIIB	1	5.00
84	Nandyal	AMRUT 1.0	1	10.00
		AMRUT 2.0	1	32.14
85	Allagadda	AIIB	1	5.00
86	Dhone	S B M 2.0	1	11.30
87	Atmakur	S B M 2.0	4	8.22
<b>Nandyala District Total</b>			9	71.66
88	Kadapa	AMRUT 1.0	1	20.00
		AMRUT 2.0	1	9.64
89	Proddatur	State Funds	1	24.00
90	Pulivendula	State Funds	11	5.77
91	Jammalamadugu	S B M 2.0	3	7.78
92	Badvel	S B M 2.0	4	15.24
93	Mydukur	S B M 2.0	1	8.10
94	Yerraguntla	S B M 2.0	3	5.31
<b>YSR Kadapa District Total</b>			25	95.85
95	Rayachoti	State Funds	6	22.40
96	Rajampeta	S B M 2.0	1	10.40
<b>Annamayya District Total</b>			7	32.80
97	Chittoor	AMRUT 2.0	1	9.00
98	Punganur	S B M 2.0	4	9.86
99	Palamaneru	S B M 2.0	3	9.24
100	Nagari	S B M 2.0	2	13.10

<b>S.No.</b>	<b>Name of the Municipality/Municipal Corporation</b>	<b>Name of the Scheme</b>	<b>No of STPs</b>	<b>Capacity in MLD</b>
101	Puttur	S B M 2.0	3	10.61
<b>Chittoor District Total</b>			13	51.82
<b>Grand Total</b>			<b>272</b>	<b>1,560.55</b>

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