

**GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS
LOK SABHA
UNSTARRED QUESTION NO. 1117
TO BE ANSWERED ON FEBRUARY 05, 2026**

**INFRASTRUCTURE DEVELOPMENT FOR DRINKING WATER AND
SEWAGE/DRAINAGE SYSTEM IN CITIES**

NO. 1117. ADV. ADOOR PRAKASH:

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

- (a) whether the Government has noticed that outdated pipelines, drainage/sewage system are the major cause of widespread drinking water contamination in cities across the country;**
- (b) if so, the measures taken/to be taken by the Government to address this issue;**
- (c) the details of projects approved, funds provided, utilized and projects completed for infrastructure development of drinking water supply and sewage/drainage systems in the selected cities under Smart Cities Mission across the country, city-wise; and**
- (d) whether the water contamination issue has been resolved over these years under the Smart Cities Mission, if so, the details thereof and if not, the reasons therefor?**

ANSWER

**THE MINISTER OF STATE IN THE
MINISTRY OF HOUSING AND URBAN AFFAIRS
(SHRI TOKHAN SAHU)**

(a) to (d): Drinking water contamination in urban areas is a multi-factor issue and is generally attributable to distribution system vulnerabilities and interface issues with sewerage and sanitation infrastructure. Drinking water supplied in urban areas is required to conform to BIS IS 10500 standards; however, deterioration in quality may occur due to infrastructure-related, operational, environmental and maintenance factors across transmission, storage and distribution systems. The key reasons for contamination in drinking water supply includes leakages, pipe bursts and defective joints, cross-connections with Sewerage and Drainage Systems, ageing infrastructure and corrosion, intermittent water supply and negative pressure, stagnation and prolonged retention of water, poor maintenance of storage and associated infrastructure, inadequate sewerage and septage management, etc.

Water and sanitation is a State subject; and repair of outdated pipelines, drainage/sewage system is the responsibility of the State Governments and concerned Urban Local Bodies (ULBs)/Urban Development Authorities. Government of India supplements the efforts of the States through schematic interventions/ advisories. It provides financial and technical support to the States through various Mission/ Schemes such as Atal Mission for Rejuvenation and Urban Transformation (AMRUT)/ AMRUT 2.0.

The Ministry of Housing Affairs (MoHUA) has published Manual on Water Supply and Treatment Systems (Drink from Tap) in March 2024 for reference by the States/ ULBs for designing, implementation, drinking water quality and monitoring of the water supply projects. (<https://mohua.gov.in/publication/manual-on-water-supplyandtreatment-systems---drink-from-tap---march-2024.php>).

MoHUA has issued an advisory "Strengthening Water Quality Monitoring in Cities through Community Participation" under AMRUT 2.0 in November, 2024 to all the States to formulate a Water Quality Monitoring strategy at the State or City level and to strengthen the institutional capacity for citywide monitoring of drinking water quality in urban areas along with Digital Display Boards for water quality parameters for public information & awareness.

MoHUA has issued an advisory in January, 2026 to all the States to carry out comprehensive assessments of vulnerable areas & ageing infrastructure and to identify the crossing of sewer lines in close proximity to water supply lines and to conduct digital mapping of the existing water and sewer network using geo-spatial database created under AMRUT/AMRUT 2.0 in order to prevent health hazards.

AMRUT/AMRUT 2.0 guidelines allows for replacement of legacy infrastructure, vulnerable crossings and pressure-managed systems to reduce contamination risks as per priority of State. Further, AMRUT 2.0 Mission promotes 24x7 water supply with quality assurance, Drink from Tap (DfT) quality water in selected District Metered Areas (DMAs)/wards, online water quality monitoring, sensors and Supervisory Control and Data Acquisition (SCADA), community participation, especially Women Self Help Groups (SHGs), in water quality testing.

Through AMRUT/ AMRUT 2.0 and in convergence with the States, 238 lakh water tap connections in the urban areas have been provided so far. 175 lakh sewer connections (including households covered through FSSM) have been provided through AMRUT/ AMRUT 2.0 and in convergence in AMRUT Cities. 90,457.51 km of water pipeline network has been laid/ replaced and 26,271 km of sewer network has been laid/ replaced.

Under AMRUT, 258 water supply schemes have smart monitoring systems such as SCADA system and 1,422 water supply projects under AMRUT 2.0 has provision for SCADA system. Mission advocates ease of getting connections to minimize illegal connections. Mission has provision of ₹3,000 per connection to enhance last mile connectivity. Mission advocated to use of smart elements, flow meters, pressure valves, etc. to strengthen maintenance systems, digital monitoring, energy efficiency, etc.

For improvement in service delivery, States have taken up DfT projects and States are encouraged to implement at least one DfT project in a DMA or ward within each AMRUT city. 408 projects with 1,153 DMAs benefitting 16.72 lakh Households have been approved in 349 ULBs under AMRUT 2.0.

Through AMRUT Mitra initiative, Women SHGs have been engaged in water quality testing, Operation & Maintenance support, bill distribution and awareness. So far, 6,067 projects have been approved worth ₹376.95 crore, involving 38,000+ SHG members.

The Smart Cities Mission (SCM) was aimed at developing 100 cities through an area-based approach—retrofitting, redevelopment, greenfield projects, pan-city smart solutions and covered sectors like mobility, Water, Sanitation, Hygiene (WASH), governance, energy, and environment with each project having defined timelines. The State/ City-wise details of projects taken in the sectors of sewerage & septage, storm Water drainage and water supply under SCM is given in Annexure.

**ANNEXURE REFERRED TO IN REPLY TO PART (a) TO (d) OF UNSTARRED QUESTION NO. 1117 REGARDING
“INFRASTRUCTURE DEVELOPMENT FOR DRINKING WATER AND SEWAGE/DRAINAGE SYSTEM IN CITIES”, DUE FOR
ANSWER IN THE LOK SABHA ON 05.02.2026**

Details of projects taken in the sectors of sewerage & septage, storm Water drainage and water supply under SCM

(Amount in Rs. Cr)

State/ Union Territory	Name of City	Sector	Total Projects		Completed Projects		Projects at implementation stage	
			No. of Projects	Cost of Projects	No. of Projects	Cost of Projects	No. of Projects	Cost of Projects
Andaman Nicobar Islands	Port Blair	Sewerage and Septage	3	45	2	5	1	40
		Water Supply	2	41	1	1	1	40
Andhra Pradesh	Amaravati	Sewerage and Septage	1	22			1	22
	Kakinada	Sewerage and Septage	5	132	5	132		
		Water Supply	4	225	3	219	1	7
	Tirupati	Sewerage and Septage	6	29	6	29		
		Water Supply	5	31	4	2	1	30
		Sewerage and Septage	10	707	8	625	2	82
	Visakhapatnam	Water Supply	2	92	2	92		
Arunachal Pradesh	Itanagar	Sewerage and Septage	3	20	3	20		
		Water Supply	1	19	1	19		
	Pasighat	Sewerage and Septage	4	75	2	1	2	75
Assam	Guwahati	Sewerage and Septage	1	26	1	26		
		Water Supply	1	2	1	2		
Bihar	Bhagalpur	Sewerage and Septage	2	35	2	35		
		Water Supply	2	540	2	540		
	Biharsharif	Sewerage and Septage	5	361	4	280	1	82
		Water Supply	3	247	3	247		
	Muzaffarpur	Sewerage and Septage	2	278	1	235	1	44
		Water Supply	1	6	1	6		
Patna	Sewerage and Septage	4	200	4	200			
Chandigarh	Chandigarh	Sewerage and Septage	8	797	8	797		
		Water Supply	16	424	16	424		
Chhattisgarh	Atal Nagar	Sewerage and Septage	6	111	6	111		
		Water Supply	2	10	2	10		
	Bilaspur	Sewerage and Septage	17	512	15	484	2	28
		Storm Water Drainage	1	6	1	6		
		Water Supply	3	303	3	303		
	Raipur	Sewerage and Septage	24	42	21	15	3	27
Water Supply		13	606	12	549	1	57	
Dadra & Nagar Haveli and Daman & Diu	Silvassa	Sewerage and Septage	3	86	1	9	2	77
		Water Supply	2	65			2	65
	Diu							
		Sewerage and Septage	2	38	2	38		
Delhi	NDMC	Sewerage and Septage	4	50	4	50		
		Water Supply	4	4	4	4		
Goa	Panaji	Sewerage and Septage	3	26	3	26		

		Water Supply	2	84	2	84		
Gujarat	Ahmedabad	Sewerage and Septage	12	682	12	682		
		Water Supply	7	165	7	165		
	Dahod	Sewerage and Septage	3	199	3	199		
		Water Supply	4	125	4	125		
	Gandhinagar	Sewerage and Septage	2	247	1	47	1	200
		Water Supply	3	148	3	148		
	Rajkot	Sewerage and Septage	11	268	11	268		
		Water Supply	8	118	8	118		
	Surat	Sewerage and Septage	5	419	5	419		
		Storm Water Drainage	1	0	1	0		
		Water Supply	14	512	14	512		
		Vadodara	Sewerage and Septage	4	250	4	250	
		Water Supply	4	182	4	182		
Haryana	Faridabad	Sewerage and Septage	5	75	5	75		
		Water Supply	1	22	1	22		
	Karnal	Sewerage and Septage	6	24	5	11	1	13
		Storm Water Drainage	1	23			1	23
		Water Supply	2	44	2	44		
Himachal Pradesh	Dharamshala	Sewerage and Septage	7	27	4	12	3	14
		Water Supply	3	37	3	37		
	Shimla	Sewerage and Septage	15	97	15	97		
		Water Supply	1	7	1	7		
Jammu & Kashmir	Jammu	Sewerage and Septage	8	188	8	188		
		Water Supply	4	152	4	152		
	Srinagar	Sewerage and Septage	6	444	6	444		
		Water Supply	3	189	3	189		
Jharkhand	Ranchi	Sewerage and Septage	2	102	2	102		
		Water Supply	3	257	3	257		
Karnataka	Belagavi	Sewerage and Septage	10	136	10	136		
		Water Supply	11	188	11	188		
	Bengaluru	Sewerage and Septage	2	38	2	38		
	Davanagere	Sewerage and Septage	30	314	30	314		
		Water Supply	6	794	5	764	1	30
	Hubballi-Dharwad	Sewerage and Septage	5	396	5	396		
		Water Supply	2	293	2	293		
	Mangaluru	Sewerage and Septage	11	381	11	381		
		Water Supply	4	953	4	953		
	Shivamogga	Sewerage and Septage	6	98	6	98		
		Water Supply	2	141	2	141		
	Tumakuru	Sewerage and Septage	10	264	10	264		
		Storm Water Drainage	1	0	1	0		
	Water Supply	12	419	12	419			
Kerala	Kochi	Sewerage and Septage	7	70	7	70		
		Storm Water Drainage	1	10	1	10		
		Water Supply	8	32	7	17	1	15
	Thiruvananthapuram	Sewerage and Septage	6	68	6	68		
		Water Supply	2	23	2	23		

Lakshadweep	Kavaratti	Water Supply	1	1	1	1		
Madhya Pradesh	Bhopal	Sewerage and Septage	1	2	1	2		
		Water Supply	3	128	3	128		
	Gwalior	Sewerage and Septage	3	340	3	340		
		Water Supply	1	70	1	70		
	Indore	Sewerage and Septage	8	298	8	298		
		Storm Water Drainage	1	7	1	7		
		Water Supply	6	758	6	758		
	Jabalpur	Sewerage and Septage	8	22	8	22		
		Water Supply	4	174	4	174		
	Sagar	Sewerage and Septage	6	147	6	147		
		Water Supply	5	610	5	610		
	Satna	Sewerage and Septage	8	240	7	189	1	51
		Water Supply	6	223	5	209	1	15
	Ujjain	Sewerage and Septage	7	504	7	504		
	Water Supply	7	43	7	43			
Maharashtra	Aurangabad	Sewerage and Septage	1	373	1	373		
		Water Supply	1	944	1	944		
	Kalyan-Dombivali	Sewerage and Septage	2	255	2	255		
	Nagpur	Sewerage and Septage	3	76	3	76		
		Water Supply	1	5	1	5		
	Nashik	Sewerage and Septage	4	55	4	55		
		Water Supply	4	200	2	15	2	185
	Pimpri-Chinchwad	Sewerage and Septage	2	32	2	32		
		Water Supply	1	139	1	139		
	Pune	Sewerage and Septage	2	5	2	5		
		Water Supply	4	500	4	500		
	Solapur	Sewerage and Septage	5	251	5	251		
		Water Supply	5	265	5	265		
	Thane	Sewerage and Septage	14	91	14	91		
	Storm Water Drainage	1	32	1	32			
	Water Supply	4	278	3	231	1	47	
Manipur	Imphal	Sewerage and Septage	1	1	1	1		
Meghalaya	Shillong	Sewerage and Septage	1	26	1	26		
Mizoram	Aizawl	Sewerage and Septage	1	2	1	2		
		Water Supply	1	2	1	2		
Nagaland	Kohima	Sewerage and Septage	5	61	5	61		
		Water Supply	4	76	4	76		
Odisha	Bhubaneswar	Sewerage and Septage	1	13	1	13		
		Water Supply	1	35	1	35		
	Rourkela	Sewerage and Septage	2	424	2	424		
		Water Supply	3	1	3	1		
Puducherry	Puducherry	Sewerage and Septage	38	176	34	104	4	72
		Storm Water Drainage	1	6	1	6		
		Water Supply	2	1	2	1		
Punjab	Amritsar	Sewerage and Septage	4	444	4	444		
		Water Supply	1	58	1	58		

	Jalandhar	Sewerage and Septage	11	251	11	251		
		Water Supply	6	424	5	413	1	11
	Ludhiana	Sewerage and Septage	8	318	8	318		
		Water Supply	2	24	2	24		
Rajasthan	Ajmer	Sewerage and Septage	19	296	19	296		
		Water Supply	6	111	6	111		
	Jaipur	Sewerage and Septage	16	71	16	71		
		Water Supply	1	4	1	4		
	Kota	Sewerage and Septage	4	536	4	536		
		Water Supply	3	128	3	128		
	Udaipur	Sewerage and Septage	9	887	9	887		
	Water Supply	1	0	1	0			
Sikkim	Gangtok	Sewerage and Septage	3	24	3	24		
	Namchi	Sewerage and Septage	2	9	2	9		
		Water Supply	3	236	1	100	2	136
Tamil Nadu	Chennai	Sewerage and Septage	2	46	2	46		
		Storm Water Drainage	2	53	2	53		
		Water Supply	3	88	3	88		
	Coimbatore	Sewerage and Septage	7	60	7	60		
		Water Supply	4	652	4	652		
	Erode	Sewerage and Septage	5	164	5	164		
		Water Supply	2	685	2	685		
	Madurai	Sewerage and Septage	1	276	1	276		
		Water Supply	2	1,101	2	1,101		
	Salem	Sewerage and Septage	10	158	10	158		
		Water Supply	3	451	3	451		
	Thanjavur	Sewerage and Septage	13	144	13	144		
		Storm Water Drainage	1	2	1	2		
		Water Supply	8	277	7	269	1	8
	Thoothukudi	Sewerage and Septage	14	509	14	509		
		Water Supply	6	73	6	73		
	Tiruchirappalli	Sewerage and Septage	7	933	7	933		
		Water Supply	12	120	12	120		
	Tirunelveli	Sewerage and Septage	3	762	3	762		
		Water Supply	5	62	5	62		
	Tiruppur	Sewerage and Septage	3	52	3	52		
	Water Supply	4	2,157	4	2,157			
Vellore	Sewerage and Septage	6	1,102	6	1,102			
	Water Supply	3	320	3	320			
Telangana	Greater Warangal	Sewerage and Septage	5	113	3	65	2	48
		Water Supply	1	636	1	636		
	Karimnagar	Sewerage and Septage	6	234	6	234		
		Water Supply	3	126	3	126		
Tripura	Agartala	Sewerage and Septage	20	99	20	99		
		Storm Water Drainage	1	4	1	4		
		Water Supply	4	258	4	258		
Uttar Pradesh	Agra	Sewerage and Septage	9	229	9	229		
		Water Supply	8	243	8	243		

	Aligarh	Sewerage and Septage	4	289	4	289		
		Water Supply	1	43	1	43		
	Bareilly	Sewerage and Septage	11	175	11	175		
		Water Supply	4	50	4	50		
	Jhansi	Sewerage and Septage	4	139	4	139		
		Water Supply	3	376	3	376		
	Kanpur	Sewerage and Septage	5	1,577	5	1,577		
		Storm Water Drainage	1	5	1	5		
		Water Supply	1	32	1	32		
	Lucknow	Sewerage and Septage	8	312	8	312		
		Water Supply	3	44	3	44		
	Moradabad	Sewerage and Septage	1	5	1	5		
		Storm Water Drainage	2	66	2	66		
		Water Supply	5	70	5	70		
	Prayagraj	Sewerage and Septage	8	406	8	406		
		Water Supply	2	56	2	56		
	Saharanpur	Sewerage and Septage	6	192	6	192		
	Varanasi	Sewerage and Septage	16	622	16	622		
		Water Supply	3	54	3	54		
Uttarakhand	Dehradun	Sewerage and Septage	3	49	3	49		
		Water Supply	3	64	3	64		
West Bengal	New Town Kolkata	Sewerage and Septage	10	49	10	49		
		Water Supply	14	73	14	73		
	Grand Total		1,048	44,575	1,004	43,034	44	1,541