

**GOVERNMENT OF INDIA
MINISTRY OF HEALTH AND FAMILY WELFARE
DEPARTMENT OF HEALTH AND FAMILY WELFARE**

**LOK SABHA
UNSTARRED QUESTION NO. 1712
TO BE ANSWERED ON 10th MARCH, 2017**

CONTAMINATION OF GROUND WATER

**1712. SHRI JITENDRA CHAUDHURY:
SHRI ALOK SANJAR:**

Will the Minister of **HEALTH AND FAMILY WELFARE** be pleased to state:

- (a) whether a number of cases of people falling ill especially children due to contaminated ground and drinking water are on the rise in the country;
- (b) if so, the details thereof along with the number of such cases of water-borne diseases and attributable casualties reported in the country during each of the last three years and the current year, disease and State/UT-wise;
- (c) whether the Government has conducted any survey/study in this regard, if so, the details and the outcome thereof;
- (d) the steps taken/proposed to be taken by the Government for prevention, control and treatment of water-borne diseases in the country; and
- (e) the funds allocated and utilised for the purpose during the above period, State UT-wise?

**ANSWER
THE MINISTER OF STATE IN THE MINISTRY OF HEALTH AND
FAMILY WELFARE
(SMT. ANUPRIYA PATEL)**

(a) to (d): Diseases such as Cholera, Acute Diarrhoeal Diseases (Dysentery and Diarrhea), Enteric Fever (Typhoid) and Viral Hepatitis A & E are caused by consumption of contaminated drinking water. State/UT wise details of number of cases and deaths reported due to these diseases during 2014-16 as per data compiled by the Central Bureau of Health Intelligence (CBHI) are indicated in Annexure I. Separate data is available for men and women but not for children.

Provision of safe drinking water and health services falls within the remit of the State/UT Governments. However, the Government of India has taken steps both for facilitating availability of safe drinking water as also for ensuring effective surveillance of outbreaks of such diseases and their prevention and management.

As informed by the Ministry of Drinking Water & Sanitation, all States have been informed to commission surface water based piped water supply schemes in all habitations as a long term sustainable solution. However, since these projects have a long gestation period (say 3-5 years) and the rural people cannot be put to the risk of consuming contaminated water, all States have also been advised to install community water purification plants. This has been done with the objective of providing 8-10 litres of safe water per capita per day for drinking and cooking purposes only.

Besides, the Ministry of Health and Family Welfare, through its Integrated Disease Surveillance Programme, helps the States/UTs to effectively detect and respond to disease outbreaks including water borne diseases by providing additional manpower, strengthening of laboratories, Information & Communication Technology (ICT) equipment and funds. The National Centre for Disease Control (NCDC) also helps the States/UTs through surveillance, investigation, laboratory and other facilities. It also helps States in capacity building through training & developmental activities.

Health System Strengthening support being given to the State Governments under National Health Mission (NHM) also enhances capacity of the Health Institutions, up to the district level, to treat and manage water borne diseases.

(e): As informed by Ministry of Drinking Water & Sanitation, the State/UT wise details of funds allocated, released and utilized for the supply of safe drinking water under National Rural Drinking Water Programme (NRDWP) including National Water Quality Sub Mission in the rural areas of the country are placed at Annexure II. Besides, NITI Aayog has also provided funds to the tune of Rs. 800.00 crores during financial year 2015-16 for commissioning community water purification plants in all remaining arsenic and fluoride affected habitations as a short term/immediate measure. Utilization of resources optimally by the State Governments is critical for effectively reducing the incidence of water-borne diseases.

State-wise Cases & Deaths Due to Cholera in India 2014 – 2016							
SI No	State / U.T.	2014		2015 (Prov.)		2016 (Prov.)	
		Cases	Deaths	Cases	Deaths	Cases	Deaths
1	Andhra Pradesh	0	0	0	0	0	0
2	Arunachal Pradesh	0	0	0	0	9	0
3	Assam	0	0	0	0	0	0
4	Bihar	0	0	0	0	0	0
5	Chhattisgarh	20	0	46	0	3	0
6	Goa	0	0	0	0	0	0
7	Gujarat	158	0	52	0	75	0
8	Haryana	7	0	0	0	0	0
9	Himachal Pradesh	0	0	0	0	0	0
10	J & K	0	0	0	0	0	0
11	Jharkhand	0	0	36	0	5	0
12	Karnataka	32	0	14	2	29	1
13	Kerala	3	0	0	0	7	0
14	Madhya Pradesh	17	0	104	0	50	1
15	Maharashtra	252	2	289	1	44	0
16	Manipur	0	0	0	0	0	0
17	Meghalaya	1	1	0	0	0	0
18	Mizoram	0	0	26	0	13	0
19	Nagaland	0	0	0	0	6	0
20	Odisha	0	0	0	0	0	0
21	Punjab	0	0	0	0	0	0
22	Rajasthan	56	0	54	0	2	0
23	Sikkim	0	0	0	0	0	0
24	Tamil Nadu	14	0	15	0	8	0
25	Telangana	NA	NA	0	0	0	0
26	Tripura	0	0	0	0	0	0
27	Uttarakhand	0	0	0	0	0	0
28	Uttar Pradesh	0	0	47	0	106	0
29	West Bengal	173	0	131	0	119	0
30	A & N Islands	0	0	0	0	0	0
31	Chandigarh	15	0	5	0	10	0
32	D & N Haveli	28	1	10	1	15	1
33	Daman & Diu	0	0	0	0	0	0
34	Delhi	65	1	59	0	121	0
35	Lakshadweep	0	0	0	0	0	0
36	Puducherry	3	0	1	0	0	0
Total		844	5	889	4	622	3

Source: National Health Profile brought out by CBHI, Dte.GHS

Note :

1. 2014: Andhra Pradesh Excludes data of 10 districts of Telangana from July 2014.
2. 2015 & 2016: Data is different for different reference period.
3. NA stands for Not Available.

State-wise Cases and Deaths due to Acute Diarrhoeal Diseases reported during 2014 – 2016

Sl. No.	State / U.T.	2014		2015 (Prov.)		2016 (Prov.)	
		Cases	Deaths	Cases	Deaths	Cases	Deaths
1	Andhra Pradesh	1332145	10	1019612	4	823644	4
2	Arunachal Pradesh	12657	5	7062	4	10348	2
3	Assam	83373	73	128392	121	67008	219
4	Bihar	550038	24	438314	36	305918	6
5	Chhattisgarh	115561	32	131956	13	124409	28
6	Goa	16097	4	13204	1	9902	4
7	Gujarat	504857	3	567123	3	463429	0
8	Haryana	197898	8	187770	4	154780	9
9	Himachal Pradesh	350459	52	334168	69	216927	23
10	J & K	515013	0	472843	2	402986	0
11	Jharkhand	81451	17	71887	0	72431	0
12	Karnataka	810781	12	827942	13	731702	4
13	Kerala	402106	9	428837	2	221194	8
14	Madhya Pradesh	768021	112	728261	74	539756	85
15	Maharashtra	664014	4	822737	27	768991	33
16	Manipur	29954	32	29159	23	26921	19
17	Meghalaya	197024	29	75641	20	58328	0
18	Mizoram	14201	10	14215	11	11546	11
19	Nagaland	22301	0	11050	0	13005	0
20	Odisha	767575	190	692484	79	584501	73
21	Punjab	170438	22	179211	37	151579	37
22	Rajasthan	676832	17	767794	13	624967	5
23	Sikkim	39983	2	25283	0	31599	0
24	Tamil Nadu	250264	14	310734	8	273887	7
25	Telangana	NA	NA	963573	20	700417	14
26	Tripura	80388	22	70300	4	74017	6
27	Uttarakhand	90428	14	108974	6	85452	6
28	Uttar Pradesh	754582	301	774832	320	682876	219
29	West Bengal	1896182	200	1663793	166	1588658	138
30	A & N Islands	23947	2	20841	0	16434	0
31	Chandigarh	39277	29	45284	47	34354	50
32	D & N Haveli	63337	0	50907	4	33118	5
33	Daman & Diu	12831	0	13261	2	9082	0
34	Delhi	120618	77	148734	82	103750	69
35	Lakshadweep	6750	0	4029	0	3129	0
36	Puducherry	87248	11	83172	1	74562	4
Total		11748631	1337	12233379	1216	10095607	1088

Source: National Health Profile brought out by CBHI, Dte.GHS

Note :

1. 2014: Andhra Pradesh Excludes data of 10 districts of Telangana from July 2014.
2. 2015 & 2016: Data is different for different reference period.
3. NA stands for Not Available.

State-wise Cases and Deaths due to Enteric Fever (Typhoid) reported during 2014– 2016

Sl. No.	State / U.T.	2014		2015 (Prov.)		2016 (Prov.)	
		Cases	Deaths	Cases	Deaths	Cases	Deaths
1	Andhra Pradesh	186446	5	131657	0	103802	0
2	Arunachal Pradesh	4512	3	3563	10	4355	1
3	Assam	5328	29	10049	0	13539	0
4	Bihar	283679	4	251818	1	158793	1
5	Chhattisgarh	32617	1	47838	1	54369	5
6	Goa	573	0	1603	1	607	0
7	Gujarat	29505	0	35362	1	31540	0
8	Haryana	29990	1	31559	0	22845	0
9	Himachal Pradesh	48786	6	40630	6	25123	7
10	J & K	57537	1	52359	0	35297	0
11	Jharkhand	36663	7	26333	4	25912	0
12	Karnataka	92959	1	85376	1	69866	0
13	Kerala	2269	0	2860	0	1328	0
14	Madhya Pradesh	155190	25	124244	8	82879	7
15	Maharashtra	102299	0	128839	0	100894	0
16	Manipur	10636	10	5422	0	3881	2
17	Meghalaya	10395	8	3665	0	9626	0
18	Mizoram	2758	4	2804	0	2201	3
19	Nagaland	11604	0	5701	0	7247	0
20	Odisha	90363	39	80658	38	53160	13
21	Punjab	34651	1	34867	3	28252	3
22	Rajasthan	83540	4	68323	0	77875	0
23	Sikkim	716	0	174	0	411	0
24	Tamil Nadu	29937	0	41125	0	21605	0
25	Telangana	NA	NA	163747	0	99467	0
26	Tripura	10553	0	4022	1	3335	0
27	Uttarakhand	28939	14	32034	10	26908	2
28	Uttar Pradesh	225829	203	280746	217	312552	200
29	West Bengal	90086	42	107949	24	108868	16
30	A & N Islands	881	0	803	0	796	0
31	Chandigarh	6021	0	12447	52	6384	6
32	D & N Haveli	2439	0	1406	0	2738	1
33	Daman & Diu	167	0	158	0	136	0
34	Delhi	27339	14	24069	15	20740	30
35	Lakshadweep	3	0	29	0	44	0
36	Puducherry	1477	3	1738	0	1484	0
Total		1736687	425	1845977	393	1518859	297

Source: National Health Profile brought out by CBHI, Dte.GHS

Note :

1. 2014: Andhra Pradesh Excludes data of 10 districts of Telangana from July 2014.
2. 2015 & 2016: Data is different for different reference period.
3. NA stands for Not Available.

State-wise Cases and Deaths due to Viral Hepatitis (All Causes) reported during 2014 – 2016

Sl. No.	State / U.T.	2014		2015 (Prov.)		2016 (Prov.)	
		Cases	Deaths	Cases	Deaths	Cases	Deaths
1	Andhra Pradesh	3716	1	2531	11	1736	1
2	Arunachal Pradesh	378	6	267	1	237	4
3	Assam	2033	13	917	7	1858	14
4	Bihar	20670	3	25808	2	22308	2
5	Chhattisgarh	548	4	532	6	423	13
6	Goa	182	0	156	0	104	0
7	Gujarat	4808	7	3736	0	2598	0
8	Haryana	1934	13	5020	3	3612	0
9	Himachal Pradesh	2808	9	1739	1	2350	14
10	J & K	5110	0	4028	0	2974	0
11	Jharkhand	1052	1	1230	1	1088	0
12	Karnataka	6402	8	6478	21	4149	12
13	Kerala	5567	4	3894	3	3929	14
14	Madhya Pradesh	16145	18	12938	25	8580	12
15	Maharashtra	6753	13	8386	9	7774	5
16	Manipur	443	0	88	0	116	0
17	Meghalaya	643	0	253	0	73	0
18	Mizoram	194	0	138	3	216	1
19	Nagaland	113	0	57	0	84	0
20	Odisha	5069	39	4309	21	2262	17
21	Punjab	4525	4	9330	8	5906	6
22	Rajasthan	9719	3	3305	0	1468	1
23	Sikkim	556	0	43	0	384	0
24	Tamil Nadu	880	0	1066	1	510	0
25	Telangana	NA	NA	1735	1	2183	0
26	Tripura	177	1	130	1	141	3
27	Uttarakhand	9243	9	10242	15	7725	11
28	Uttar Pradesh	16037	50	11088	62	8898	27
29	West Bengal	4444	63	3865	81	2121	81
30	A & N Islands	262	9	80	1	102	0
31	Chandigarh	766	21	1249	27	793	5
32	D & N Haveli	32	0	48	6	3	1
33	Daman & Diu	65	0	64	2	20	0
34	Delhi	6965	98	8362	76	6081	60
35	Lakshadweep	16	0	10	0	6	0
36	Puducherry	299	3	503	2	350	6
Total		138554	400	133625	397	103162	310

Source: National Health Profile brought out by CBHI, Dte.GHS

Note :

1. 2014: Andhra Pradesh Excludes data of 10 districts of Telangana from July 2014.
2. 2015 & 2016: Data is different for different reference period.
3. NA stands for Not Available.

Annexure II

State/UT wise funds allocated, released and utilized under NRDWP during the last three years and current year till 04.03.2017

(Rs. in crore)

S.No.	State	2013-14			2014-15			2015-16			2016-17		
		Allocation	Release	Expn.	Allocation	Release	Expn.	Allocation	Release	Expn.	Allocation	Release upto 01/03/2017	Expn.
1	ANDAMAN and NICOBAR	1.04	0.09	0.64	0.86	0.81	0.43	0.38	0.16	0.00	0.44	0.22	0.00
2	ANDHRA PRADESH	635.44	631.52	662.40	372.43	377.78	427.08	156.69	170.05	190.60	147.79	172.56	121.02
3	ARUNACHAL PRADESH	218.23	237.32	230.97	87.21	109.83	119.50	58.08	65.40	66.23	81.59	100.50	51.37
4	ASSAM	470.00	524.97	635.18	501.10	585.32	586.88	268.26	284.11	216.20	334.23	246.74	152.35
5	BIHAR	432.38	348.94	307.43	441.07	399.11	381.90	229.60	202.73	295.38	286.30	299.11	315.97
6	CHATTISGARH	136.13	135.20	172.38	159.08	150.74	173.08	63.69	60.83	64.64	65.85	65.49	45.45
7	GOA	5.50	0.00	2.22	4.61	0.00	0.00	2.08	1.66	0.00	2.38	1.19	3.35
8	GUJARAT	533.73	515.07	627.95	509.48	405.58	491.44	240.13	238.91	274.78	238.12	207.89	197.52
9	HARYANA	229.46	229.52	301.15	218.09	277.98	228.82	97.65	122.65	150.74	109.32	111.01	54.34
10	HIMACHAL PRADESH	150.51	130.81	153.33	131.84	120.89	120.18	65.20	64.38	69.88	67.58	63.31	55.98
11	JAMMU AND KASHMIR	462.43	414.82	499.79	461.33	474.41	458.03	199.40	192.12	222.16	227.50	209.11	100.69
12	JHARKHAND	172.85	253.28	277.96	169.86	175.18	206.88	126.85	132.09	133.70	112.98	98.13	127.92
13	KARNATAKA	868.76	897.29	928.81	623.20	563.91	622.37	307.62	278.08	366.68	306.51	331.34	167.75
14	KERALA	155.58	212.04	265.10	115.59	124.10	131.86	52.78	48.05	64.45	60.35	44.77	29.97
15	MADHYA PRADESH	404.81	474.95	483.98	397.18	440.18	399.94	181.76	193.73	387.62	203.17	196.36	106.12
16	MAHARASHTRA	788.48	690.27	657.46	780.06	748.23	901.96	344.16	330.88	584.00	359.75	368.92	234.61
17	MANIPUR	58.75	55.30	57.17	90.35	88.54	92.25	28.98	27.92	43.44	27.65	26.76	18.66
18	MEGHALAYA	92.18	103.40	114.81	59.61	69.50	81.02	30.52	31.24	30.92	34.35	40.42	25.85
19	MIZORAM	38.41	44.89	33.37	42.43	34.50	39.81	17.71	17.32	23.16	18.38	24.49	9.14
20	NAGALAND	61.31	61.07	52.38	108.19	101.44	86.45	39.27	38.53	61.90	22.70	36.84	14.28
21	ODISHA	244.25	317.07	288.08	205.69	230.67	257.29	96.90	103.19	150.64	106.12	106.73	69.74
22	PUDUCHERRY	1.59	0.06	0.00	1.62	0.00	0.00	0.74	0.00	0.00	0.83	0.29	0.00
23	PUNJAB	96.89	147.95	159.05	93.88	97.38	90.23	39.77	42.79	36.57	39.18	45.79	43.89
24	RAJASTHAN	1231.05	1332.49	1572.96	1194.46	1304.64	1386.79	547.17	526.75	480.21	1059.21	1063.56	274.49
25	SIKKIM	16.88	26.56	71.25	30.38	31.70	32.03	10.64	12.05	12.49	7.63	14.42	5.92
26	TAMIL NADU	304.63	387.11	527.57	367.36	382.46	432.39	169.50	182.35	164.85	126.72	155.19	124.74
27	TELANGANA	-	-	-	200.65	212.24	189.25	88.77	97.71	106.42	101.01	113.14	92.22
28	TRIPURA	59.29	89.93	94.19	62.06	68.31	64.81	28.07	31.68	39.97	26.60	38.26	24.08
29	UTTAR PRADESH	923.18	804.92	858.50	1006.43	1073.22	1146.18	477.69	490.31	690.46	537.38	520.24	257.19
30	UTTARAKHAND	159.66	87.61	138.59	135.01	111.48	152.94	63.57	60.06	98.91	86.32	68.33	58.03
31	WEST BENGAL	490.63	485.83	757.11	436.53	431.09	480.72	199.68	216.85	288.75	390.45	437.55	114.05
	Total	9444.03	9640.28	10931.78	9007.64	9191.22	9782.51	4233.31	4264.58	5315.75	5188.39	5208.66	2896.69