

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

**LOK SABHA  
UNSTARRED QUESTION NO.1574  
TO BE ANSWERED ON 4<sup>TH</sup> MARCH, 2016**

**WATER BORNE DISEASES**

**1574. SHRI NARANBHAI KACHHADIYA:  
SHRI DALPAT SINGH PARASTE:  
SHRI DUSHYANT CHAUTALA:  
SHRI PREM DAS RAI:  
SHRI NISHIKANT DUBEY:  
SHRI CHANDRA PRAKASH JOSHI:  
SHRI RAMESH CHANDER KAUSHIK:  
SHRI DILIPKUMAR MANSUKHLAL GANDHI:  
SHRI P.P. CHAUDHARY:**

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

- (a) the number of persons suffering from water borne diseases and deaths caused therefrom in the country during each of the last three years and the current year, State/ UT-wise;
- (b) whether the Government has conducted/proposes to conduct any survey of the areas having excess of fluoride and arsenic contamination;
- (c) if so, whether the Government provides/proposes to provide medical facility to the people in these areas including the treatment to the organs affected by it;
- (d) the details of the financial and technical assistance provided to the States/ UTs to effectively respond to health problems arising from consumption of contaminated drinking water in the country; and
- (e) the other steps taken/being taken by the Government to address the issue?

**ANSWER  
THE MINISTER OF HEALTH AND FAMILY WELFARE  
(SHRI JAGAT PRAKASH NADDA)**

(a) to (e): Consumption of contaminated drinking water can cause diseases such as Cholera, Acute Diarrhoeal Diseases, Enteric Fever (Typhoid), Viral Hepatitis etc. As per the data reported by Central Bureau of Health Intelligence (CBHI), State/UT- wise number of cases and deaths due to Cholera, Acute Diarrhoeal Diseases, Enteric Fever (Typhoid), and Viral Hepatitis during the years 2013-2015 are given at Annexure I.

As per Integrated Management Information System (IMIS) of Ministry of Drinking Water & Sanitation, there are about 11,286 fluoride affected habitations in 19 States and 1311 Arsenic affected habitations in 6 States as on 16.02.2016. As per school and community surveys conducted by States, 23,102 Fluoride cases have been reported so far.

Provision of safe drinking water is the main strategy to control diseases caused by drinking of contaminated water. Rural water supply is a State subject. Government of India supplements the efforts of the States by providing technical and financial assistance under the centrally sponsored National Rural Drinking Water Programme (NRDWP) for providing safe and adequate drinking water supply facilities in rural areas of the country. 5% of NRDWP Funds are earmarked for support funds which are allotted to the States on 100% central share for activities such as IEC (Information, Education and Communication) for awareness generation, HRD (Human Resource Development) for capacity building and for MIS (Management Information System). Further, under NRDWP, 3% of funds allocated to the States are earmarked for Water Quality Monitoring and Surveillance (WQMS) activities on a 100% Central share basis which, inter alia, includes testing of drinking water sources at the Panchayat level by using simple field test kits, upgrading of existing water quality testing laboratories and setting up of new State/district/sub-district water quality testing laboratories wherever such facility is not available or needed.

Further, as informed by Ministry of Water Resources, River Development & Ganga Rejuvenation, an amount of Rs. 10 crore has been earmarked for IEC activities under the Information, Education & Communication component of HRD & Capacity Building Scheme for the year 2015-16.

Government of India started the National Programme for Prevention and Control of Fluorosis (NPPCF) in the 11th Five Year Plan. So far, 111 districts have been covered under the programme. The important components of the programme are surveillance of fluorosis in the community, Information, Education and Communication (IEC) activities, capacity building in the form of training and manpower support, establishment of diagnostic facilities, management of fluorosis cases including treatment, surgery, rehabilitation, and health education. Details of the fund released under NPPCF are given in Annexure II.

The Guidelines "Detection, Prevention and Management of Arsenicosis in India-A Field Guide" have also been finalized by an expert Committee and sent to the Arsenic affected States (i.e. Assam, Bihar, Karnataka, Punjab, Uttar Pradesh & West Bengal). State Governments are also advised to strengthen Distt./CHC infrastructure for early diagnosis, management and treatment of Arsenic affected cases and for this purpose seek necessary support in the State PIPs submitted under NHM.

The National Centre for Disease Control (NCDC), Delhi provides technical assistance to State/UT Governments on prevention and control of water-borne diseases in carrying out investigation of outbreaks of such diseases under Integrated Disease Surveillance Programme (IDSP). At the National level, NCDC also coordinates laboratory support for outbreak investigations, besides conducting regular training courses for development of trained manpower. Details of funds released for the last three years and the current year State/UT wise are at Annexure III.

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.

## Annexure I

## State-wise Cases &amp; Deaths Due to Cholera in India 2013 – 2015

SI No	State / U.T.	2013		2014 (Prov.)		2015 (Prov.)		
		Cases	Deaths	Cases	Deaths	Cases	Deaths	Reference Period from Jan 15 upto
1	Andhra Prad.	31	0	0	0	0	0	August,15
2	Arun. Prad.	0	0	0	0	0	0	September,15
3	Assam	0	0	0	0	0	0	September,15 exc Mar
4	Bihar	0	0	0	0	0	0	October,15
5	Chhattisgarh	2	0	20	0	46	0	October,15 exc feb
6	Goa	0	0	0	0	0	0	July, 15
7	Gujarat	327	1	159	0	47	0	October,15
8	Haryana	16	0	7	0	0	0	October,15
9	Himachal Prd.	0	0	0	0	0	0	September,15
10	J & K	0	0	0	0	0	0	October,15
11	Jharkhand	9	0	0	0	0	0	October,15 exc May to July
12	Karnataka	200	0	86	0	14	2	October,15
13	Kerala	23	0	3	0	0	0	October,15
14	Madhya Prad.	8	0	17	0	80	0	Oct,15 exc June, Aug, Sep
15	Maharashtra	293	1	252	2	2416	0	October,15 exc Mar
16	Manipur	0	0	0	0	0	0	September,15
17	Meghalaya	0	0	1	1	0	0	June, 15
18	Mizoram	0	0	0	0	25	0	October,15
19	Nagaland	0	0	0	0	0	0	October,15
20	Odisha	0	0	0	0	0	0	October,15
21	Punjab	0	0	55	0	0	0	October,15
22	Rajasthan	5	0	56	0	3	0	Oct,15 exc May, Aug, Sep
23	Sikkim	0	0	0	0	0	0	September,15
24	Tamil Nadu	42	3	10	0	15	0	October,15
25	Tripura	0	0	0	0	0	0	September,15 exc Apr
26	Uttarakhand	1	0	12	0	0	0	September,15
27	Uttar Pradesh	0	0	21	0	41	0	October,15
28	West Bengal	120	0	173	0	84	0	October,15 exc Jul, Aug
29	A & N Islands	0	0	0	0	0	0	August,15 exc Feb, May
30	Chandigarh	0	0	15	1	1	0	August,15 exc Aug
31	D & N Haveli	25	0	28	1	295	1	October, 15 exc Aug
32	Daman & Diu	0	0	0	0	0	0	October,15 exc Mar, Apr
33	Delhi	25	0	51	0	34	0	August,15
34	Lakshadweep	0	0	0	0	0	0	September,15
35	Puducherry	3	0	3	0	1	0	September,15
<b>Total</b>		<b>1130</b>	<b>5</b>	<b>969</b>	<b>5</b>	<b>3102</b>	<b>3</b>	

Source: National Health

Profile brought out by

CBHI, DGHS

Note :

1. 2014 & 2015 : Andhra Pradesh Excludes data of 10 districts of Telangana from July 2014 Onwards.
2. 2014: Data for Assam till September
3. 2014 : Data from Meghalaya and Uttar Pradesh does not contains figures for October
4. 2014 : Data from Tripura does not contains figures for November

**State-wise Cases and Deaths due to ADD reported during 2013 – 2015**

Sl. No.	State / U.T.	2013		2014 (Prov.)		2015 (Prov.)		Reference Period Jan 15 upto
		Cases	Deaths	Cases	Deaths	Cases	Deaths	
1	Andhra Prad.	1855496	110	1336690	10	740297	2	August,15
2	Arun. Prad.	30756	3	12657	5	6589	3	September,15
3	Assam	105876	147	58587	64	96429	82	September,15
4	Bihar	550281	24	550038	24	302255	21	October,15 exc May
5	Chhattisgarh	104966	37	112888	32	105678	12	October,15
6	Goa	16485	0	16039	4	8530	1	July, 15
7	Gujarat	427523	8	504857	3	426309	3	October,15
8	Haryana	168527	27	197898	8	143169	4	October,15
9	Himachal Prad.	349904	56	350459	52	264897	31	September,15
10	J & K	591231	1	515013	0	397080	2	October,15
11	Jharkhand	81045	4	79430	28	39982	0	October,15
12	Karnataka	545794	81	819777	23	651636	13	October,15
13	Kerala	372440	12	402106	9	342206	0	October,15
14	Madhya Prad.	535012	89	768021	112	525686	65	October,15
15	Maharashtra	527115	0	646380	4	529288	13	October,15
16	Manipur	25333	37	29954	32	19590	11	October,15
17	Meghalaya	186023	12	183631	27	75641	20	September,15
18	Mizoram	13518	12	14201	10	11631	8	June, 15
19	Nagaland	21672	0	21783	0	10477	0	October,15
20	Orissa	656838	217	750262	169	481627	40	October,15
21	Punjab	183533	13	170438	22	129184	32	October,15
22	Rajasthan	545293	18	676832	17	576155	6	October,15
23	Sikkim	42410	1	37275	2	14254	0	October,15
24	Tamil Nadu	278701	23	259452	14	242507	8	August, 15
25	Tripura	92826	17	79216	22	50769	2	October,15
26	Uttarakhand	84792	12	90428	14	82785	4	September,15
27	Uttar Pradesh	828367	272	745457	301	557006	241	September,15
28	West Bengal	1830310	302	1896182	200	1320277	129	October,15
29	A & N Islands	29391	0	23947	2	10585	0	October,15
30	Chandigarh	44664	2	39277	29	28717	72	August,15 exc Feb, May
31	D & N Haveli	62259	0	63337	0	37758	4	August,15
32	Daman & Diu	8615	2	12831	0	10544	1	October, 15 exc Aug
33	Delhi	129367	62	113677	73	107598	59	October,15 exc Mar, Apr
34	Lakshadweep	7496	0	6750	0	3385	0	August,15
35	Puducherry	79751	28	87248	11	<b>67129</b>	<b>0</b>	September,15
<b>Total</b>		<b>11413610</b>	<b>1629</b>	<b>11673018</b>	<b>1323</b>	<b>8417650</b>	<b>889</b>	September,15

Source: National Health

Profile brought out by

CBHI, DGHS

Note : Excludes data of 10 districts of Telangana from July Onwards.

Note :

1. 2014 & 2015 : Andhra Pradesh Excludes data of 10 districts of Telangana from July 2014 Onwards.

2. 2014: Data for Assam till September

3. 2014 : Data from Meghalaya does not contains figures for October

**State-wise Cases and Deaths due to Enteric Fever (Typhoid) reported during 2013– 2015**

Sl. No.	State / U.T.	2013		2014 (Prov.)		2015 (Prov.)		Reference Period Jan 15 upto
		Cases	Deaths	Cases	Deaths	Cases	Deaths	
1	Andhra Prad.	256458	6	186446	5	87150	0	August,15
2	Arun. Prad.	7359	4	4512	3	3042	6	September,15
3	Assam	6521	0	4233	29	15122	2	September,15
4	Bihar	261791	2	273007	4	191861	1	October,15
5	Chhattisgarh	27457	2	32438	0	41925	1	October,15
6	Goa	355	0	573	0	987	1	July, 15
7	Gujarat	22962	1	29505	0	23204	1	October,15
8	Haryana	27115	0	29990	1	23612	0	October,15
9	Him. Prad.	37128	2	48786	6	32301	4	September,15
10	J & K	70859	0	57537	1	43304	0	October,15
11	Jharkhand	24806	7	34355	7	15129	3	October,15
12	Karnataka	61485	9	90318	1	64566	1	October,15
13	Kerala	4325	3	2269	0	2455	0	October,15
14	Madhya Prad.	114578	28	155197	31	87212	4	October,15
15	Maharashtra	81458	1	96927	0	85549	0	October,15
16	Manipur	10927	17	10636	10	3643	0	September,15
17	Meghalaya	9134	1	8996	8	3665	0	June, 15
18	Mizoram	2765	3	2758	4	2169	0	October,15
19	Nagaland	12736	0	11192	0	5531	0	October,15
20	Orissa	60337	56	87568	38	56114	21	October,15
21	Punjab	35136	5	34651	1	24225	1	October,15
22	Rajasthan	65331	5	83540	4	80743	0	October,15
23	Sikkim	186	0	716	0	125	0	September,15
24	Tamil Nadu	31440	1	26181	0	29926	0	October,15
25	Tripura	12849	1	14861	0	1902	1	September,15
26	Uttarakhand	25956	0	28939	14	23687	10	September,15
27	Uttar Pradesh	224748	161	224976	203	189480	183	October,15
28	West Bengal	108695	39	90086	42	81022	18	October,15
29	A & N Islands	1501	3	881	0	371	0	August,15 exc Feb, May
30	Chandigarh	3251	0	6021	0	5085	27	August,15
31	D & N Haveli	4323	0	2439	0	1089	0	October, 15 exc Aug
32	Daman & Diu	888	0	167	0	106	0	October,15 exc Mar, Apr
33	Delhi	32691	29	25131	14	13279	11	August,15
34	Lakshadweep	3	0	3	0	6	0	September,15
35	Puducherry	2591	1	1477	3	1317	0	September,15
<b>Total</b>		<b>1650145</b>	<b>387</b>	<b>1707312</b>	<b>429</b>	<b>1240904</b>	<b>296</b>	

Source: National Health Profile brought out by CBHI, DGHS

Note : Excludes data of 10 districts of Telangana from July Onwards.

Note :

1. 2014 & 2015 : Andhra Pradesh Excludes data of 10 districts of Telangana from July 2014 Onwards.
2. 2014: Data for Assam till September
3. 2014 : Data from Meghalaya does not contains figures for October

**State-wise Cases and Deaths due to Viral Hepatitis (All Causes) reported during 2013 – 2015**

Sl. No.	State / U.T.	2013		2014 (Prov.)		2015 (Prov.)		Reference Periodm Jan 15 up to
		Cases	Deaths	Cases	Deaths	Cases	Deaths	
1	Andhra Prad.	8739	34	3716	1	1867	6	August,15
2	Arun. Prad.	588	0	378	6	218	1	September,15
3	Assam	466	0	1994	13	456	7	September,15
4	Bihar	6736	2	20670	3	20361	2	October,15
5	Chhattisgarh	670	5	533	4	437	5	October,15
6	Goa	173	0	182	0	102	0	July, 15
7	Gujarat	3676	6	4808	7	2870	0	October,15
8	Haryana	1307	1	2717	4	4076	2	October,15
9	HP	2023	14	2808	9	1440	0	September,15
10	J & K	6307	0	5110	0	3172	0	October,15
11	Jharkhand	1444	65	972	20	457	1	October,15
12	Karnataka	5415	16	6613	9	5001	16	October,15
13	Kerala	7034	8	5567	4	2961	2	October,15
14	Madhya Prad.	14055	11	16141	18	8802	14	October,15
15	Maharashtra	5851	13	5985	13	5776	6	October,15
16	Manipur	258	0	443	0	68	0	September,15
17	Meghalaya	518	0	609	0	253	0	June, 15
18	Mizoram	419	10	194	0	155	3	October,15
19	Nagaland	119	0	88	0	27	0	October,15
20	Orissa	3743	90	4910	38	3040	9	October,15
21	Punjab	3099	6	4525	4	7551	7	October,15
22	Rajasthan	2384	10	9719	3	2194	0	October,15
23	Sikkim	692	1	554	0	18	0	September,15
24	Tamil Nadu	1868	0	2671	0	858	0	October,15
25	Tripura	205	1	177	1	85	1	September,15
26	Uttarakhand	8619	11	9243	9	7529	12	September,15
27	Uttar Pradesh	9079	17	16026	50	8783	47	October,15
28	West Bengal	4967	91	4444	63	2951	54	October,15
29	A & N Islands	231	11	262	9	37	1	August,15 exc Feb, May
30	Chandigarh	424	1	766	21	862	24	August,15
31	D & N Haveli	90	2	32	0	43	4	October, 15 exc Aug
32	Daman & Diu	184	7	65	0	51	1	October,15 exc Mar, Apr
33	Delhi	8290	131	6425	95	4872	48	August,15
34	Lakshadweep	5	0	16	0	4	0	September,15
35	Puducherry	447	10	299	3	435	2	September,15
<b>Total</b>		<b>110125</b>	<b>574</b>	<b>139662</b>	<b>407</b>	<b>97812</b>	<b>275</b>	

Source: National Health Profile  
brought out by CBHI, DGHS

Note :

1. 2014 & 2015 : Andhra Pradesh Excludes data of 10 districts of Telangana from July 2014 Onwards.
2. 2014: Data for Assam till September
3. 2014 : Data from Meghalaya does not contains figures for October

**Annexure II****Funds released under National Programme for Prevention and control of Fluorosis (NPPCF) from the year 2008-09 to November, 2015****(Rs. In Lakhs)**

<b>S. No.</b>	<b>State with total districts</b>	<b>No. of districts under NPPCF</b>	<b>Districts under NPPCF</b>	<b>Fund Released</b>
1.	Andhra Pradesh	3	Nellore, Guntur, Prakasam	132.16
2	Telangana	3	Mehboobnagar, Nalgonda, Karimnagar	146.92
3.	Assam	3	Nagaon, Kamrup,. Karbi Anglong	137.95
4.	Bihar	10	Nawada, Banka, Aurangabad, Bhagalpur, Gaya, Jammui, Nalanda, Shekhpura, Kaimur Munger	403.90
5.	Chhattisgarh	2	Durg, Kanker	54.50
6	Gujarat	4	Jamnagar, Sabarkantha, Vododara, Banaskantha	126.06
7.	Haryana	2	Mehendragarh, Mewat	84.20
8	Jharkhand	4	Palamu, Garhwa, Chatra, Hazaribagh	151.30
9	Jammu & Kashmir	1	Doda	22.50
10	Karnataka	18	Ballari, Mysore, Chikballalpur, Koppal, Davangere, Tumkur, Bagalkote, Bangalore(U), Bijapur, Raichur, Chitradurga, Gadag, Gulbarga, Hassan, Kolar, Mandia, Ramanagara, Shimoga	759.66
11	Kerala	2	Palakkad, Alapuzha	82.93
12	Madhya Pradesh	14	Ujjain,Chindwada, Mandla, Dhar, Seoni, Betul, Jhabua, Raigarh, Sehore, Alirajpur,Dindori, Khargoan, Raisen, Shajapur	604.84
13	Maharashtra	6	Nanded, Chandrapur, Latur, Washim, Yavatmal, Beed	251.26
14	Odisha	3	Nayagarh, Angul, Nuapada	115.86
15	Punjab	2	Sangrur, Firozpur	67.10
16	Rajasthan	23	Nagaur, Ajmer, Bhilwara,Churu (Ratangarh), Dausa, Dungarpur, Rajsamand, Tonk, Bikaner, Jalore, Jaisalmer, Jodhpur, Jaipur, Pali, Sikar,Udaipur, Swaimadhopur, Banswara, Karauli, Chittaurgarh, Ganganagar, Jhalawar, Jhunjhunu	798.56
17	Tamil Nadu	1	Dharmapuri	58.89
18.	Uttar Pradesh	5	Unnao, Rae Bareli, Pratapgarh, Firozabad, Mathura	195.11
19	West Bengal	5	Bankura, Purlia,. Birbhum, D. Dinajpur, Maldha	221.40
	<b>TOTAL</b>	<b>111</b>		<b>4415.10</b>

## ANNEXURE III

**FUNDS RELEASED TO STATES UNDER INTEGRATED DISEASE SURVEILLANCE  
PROGRAMME (IDSP) FOR THE PERIOD 2014-15**

(Rs. In Lakhs)

S. NO.	STATES/UTS	FUNDS RELEASED
1	Andhra Pradesh	122.48
2	Gujarat	400
3	Karnataka	270.5
4	Maharashtra	280
5	Punjab	168.75
6	Rajasthan	325
7	Tamil Nadu	325
8	Uttarakhand	45
9	West Bengal	250
10	Andaman & Nic. Islands	9
11	Bihar	200
12	Chandigarh	40
13	Chhattisgarh	60
14	Dadra & N. Haveli	21
15	Daman & Diu	6.01
16	Delhi	56.25
17	Goa	45
18	Haryana	150
19	Himachal Pradesh	70
20	J&K	127.5
21	Jharkhand	112.5
22	Kerala	101.25
23	Lakshadweep	
24	Madhya Pr.	350
25	Orissa	350
26	Puducherry	70
27	Uttar Pradesh	300
28	Telangana	87.53
29	Arunachal Pr.	152.24
30	Assam	206.25
31	Manipur	96.25
32	Meghalaya	45
33	Mizoram	97.5
34	Nagaland	120
35	Sikkim	50
36	Tripura	50
	<b>TOTAL</b>	<b>5160.01</b>