

**GOVERNMENT OF INDIA
WATER RESOURCES
LOK SABHA**

UNSTARRED QUESTION NO:942

ANSWERED ON:25.11.2009

FLORIDE IN WATER

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Will the Minister of WATER RESOURCES be pleased to state:

- (a) whether the Government has fixed any standard for the quantity of floride in water;
- (b) if so, the details thereof;
- (c) whether the Government has conducted any survey regarding the problem of floride contents in water in various cities in the country;
- (d) if so, the outcome thereof;
- (e) if not, the reasons therefor; and
- (f) the action taken by the Government to address the problem?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF WATER RESOURCES (SHRI VINCENT H. PALA)

(a) & (b) The Bureau of Indian Standards (BIS) has published a Standard named `BIS 10500:1991 Drinking Water â€” Specification`, which prescribes the essential and desirable characteristics required to be tested for ascertaining the suitability of water for drinking purposes. The Standard in respect of Fluoride prescribes the desirable limit as 1.0 milligram per litre (mg/l), and permissible limit in the absence of alternate source as 1.5 mg/l.

(c), (d) & (e) Central Ground Water Board monitors the ground water quality, once in a year on regional basis, through a network of 15640 observation wells located throughout the country. The fluoride content in the ground water samples collected from observation wells is found to be below 1.0 mg/l in most part of the country. At some locations, the fluoride content in ground water is found to be in excess of 1.5 mg/l. Central Pollution Control Board (CPCB) has conducted ground water quality survey in 35 Metro cities of the country in the year 2007. The survey reveals that there has been wide variation between minimum and maximum value of Fluoride concentration in cities. Maximum values of Fluoride are exceeding the BIS Standards in cities like Agra, Chennai, Vijaywada, Coimbatore, Mudurai, Varanasi, Delhi, Faridabad, Jaipur, Patna, Hyderabad, Kanpur and Indore. The details have been given in Annexure.

(f) The Ministry of Urban Development is supplementing the efforts of Urban Local Bodies ((ULBs)/ State Governments in providing safe/ quality water supply through the schemes of JNNURM/UIDSSMT, under which Additional Central Funding (ACA) is made available to metropolitan cities & important towns.

Annexure

FLUORIDE LEVELS IN METROPOLITAN CITIES (Year-2007)

S. No.	Name of the Metropolitan City	No. of observations violating the standard limit (in mg/l)	No. of observations in Pre-monsoon (in mg/l)	Concentration of Fluoride in Pre-monsoon (in mg/l)	No. of observations in Post-monsoon (in mg/l)	Concentration of Fluoride in Post-monsoon (in mg/l)
1	Meerut (25 Pre-monsoon, 25 post-monsoon)	50	0	0.20 - 1.20	0	0.20 - 1.30
2	Agra	50	18	0.46 - 7.80	18	0.32 - 3.70

3	Chennai	50	7	0.17 -	0.11 -
	4.50	3.50			
4	Vijayawada	50	4	0.01 -	0.01 -
	5.9	4.35			
5	Coimbatore	50	2	0.21 -	0.21 -
	1.80	1.75			
6	Madurai	50	4	0.0.29-	0.31 -
	3.70	3.12			
7	Lucknow	50	0	0.70 -	0.10-0.92
	0.94				
8	Ludhiana	50	0	0.71-	0.70-0.86
	0.92				
9	Amritsar	50	0	0.2-0.9	0.2-0.8
10	Varanasi	50	1	0.1-2.1	0.01-1.0
11	Jamshedpur	50	0	0.1-1.1	0.2-0.8
12	Surat	50	0	0.3-1.4	0.2-1.3
13	Asansol	50	0	0.2-1.0	0.2-1.5
14	Kolkata	50	0	0.2-1.4	0.2-0.7
15	Dhanbad	50	0	0.01-1.1	0.01-1.2
16	Vadodara	50	0	0.1-1.4	0.2-1.3
17	Ahmadabad	50	1	0.01-1.19	0.1-1.6
18	Bhopal	50	0	0.01-0.8	0.01-1.2
19	Jabalpur	50	2	0.01-1.6	0.01-1.5
20	Nagpur	50	0	0.01-0.4	0.01-1.2
21	Delhi	50	10	0.3-8.5	0.01-5.0
22	Faridabad	50	7	0.1-5.0	0.01-1.5
23	Jaipur	50	12	0.5-3.2	0.1-2.8
24	Bangalore	50	0	0.01-0.1	0.01-0.8
25	Patna	50	4	0.01-2.0	0.01-1.8
26	Hyderabad	50	23	0.6-1.8	0.4-2.4
27	Kochi	50	0	0.01-1.4	0.1-0.7
28	Pune	50	0	0.01-0.4	0.01-1.2
29	Vishakhapa-	50	4	0.01-1.6	0.01-0.3
	tnam				
30	Nasik	50	0	0.01-1.5	0.01-1.3
31	Rajkot	50	0	0.01-0.4	0.1-0.7
32	Indore	50	1	0.01-1.4	0.01-2.0
33	Kanpur	50	2	0.01-2.0	0.01-1.5
34	Allahabad	50	0	0.2-1.3	0.1-0.9
35	Mumbai	64	0	0-1.2	0-1.5