

**REPORT**

**Fluoride Content in Drinking Water of Villages Around Chikhli Dist. Buldana, Maharashtra**

S.V. AGARKAR

*Department of Chemistry, Anuradha Engineering College  
Chikhli (Buldana)-443 201, India*

A survey was carried out to assess the status of fluoride content in drinking water sources of villages around Chikhli town of Buldana District. The drinking water samples were collected from the main sources of water supply of twenty villages around Chikhli. The results clearly indicate that the fluoride content in wells, bore wells and hand pumps water is within the permissible limits.

**Key Words:** Fluoride, Drinking water, Chikhli, Buldana.

Good quality water is inadequate even for normal living and is getting deteriorated due to unwise utilization of water resources. The accelerated pace of development and increase in population have led to scarcity of potable water. To fulfill the water requirement, ground sources have been installed. The present study deals with the quantitative assessment of fluoride content in drinking water sources of villages around Chikhli town of Buldana District, Maharashtra.

Drinking water samples were collected from main sources of water supply from twenty villages located around Chikhli town of Buldana District, Maharashtra. Ground water samples from hand pumps, bore wells and dug wells were collected in the summer season and were analyzed for fluoride content.

Analysis of water samples was done as per standard procedure<sup>1,2</sup>.

The fluoride content in drinking water samples is summarized in Table-1. The analysis report revealed that the fluoride content in the drinking water samples ranges from 0.008 mg/L to 0.290 mg/L and all water samples are well within the permissible limit.

TABLE-1  
FLUORIDE CONTENT IN DRINKING WATER SAMPLES

Village	Source of drinking Water	Fluoride (mg/L)	Village	Source of drinking Water	Fluoride (mg/L)
V <sub>1</sub>	Hand Pump	0.120	V <sub>11</sub>	Hand Pump	0.265
V <sub>2</sub>	Well	0.110	V <sub>12</sub>	Well	0.077
V <sub>3</sub>	Well	0.135	V <sub>13</sub>	Well	0.252
V <sub>4</sub>	Well	0.115	V <sub>14</sub>	Well	0.102
V <sub>5</sub>	Well	0.051	V <sub>15</sub>	Well	0.024
V <sub>6</sub>	Hand Pump	0.152	V <sub>16</sub>	Well	0.117
V <sub>7</sub>	Well	0.175	V <sub>17</sub>	Well	0.232
V <sub>8</sub>	Well	0.195	V <sub>18</sub>	Well	0.117
V <sub>9</sub>	Well	0.008	V <sub>19</sub>	Bore Well	0.175
V <sub>10</sub>	Well	0.019	V <sub>20</sub>	Well	0.290

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