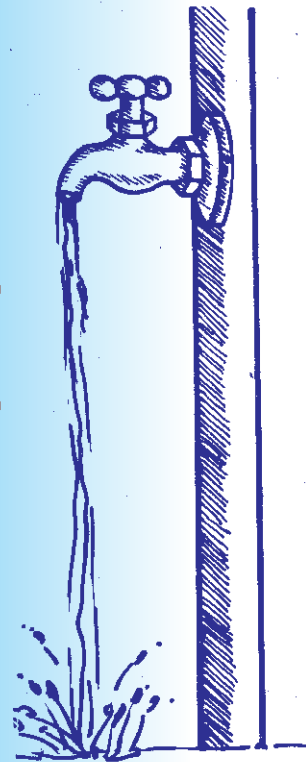


Sl. No.	Substances or Characteristics	Requirement (Desirable limit)	Undesirable effect outside the desirable limit	Permissible limit in the absence of alternate source
1	Colour, Hazen units, Max	5	Above 5, consumer acceptance decreases	25
2	Odour	Unobjectionable	-	-
3	Taste	Agreeable	-	-
4	Turbidity, NTU, Max	5	Above 5, consumer acceptance decreases	10
5	pH value	6.5 to 8.5	No relaxation. Beyond this range, water will affect the mucous membrane and/ or water supply system	No relaxation
6	Total hardness (as CaCO <sub>3</sub> ), mg/l, Max	300	Encrustation in water supply structure and adverse effects on domestic use	600
7	Iron (as Fe), mg/l, Max	0.3	Beyond this limit taste/ appearance are affected, has adverse effect on domestic uses and water supply structures and promotes iron bacteria	1.0
8	Chlorides (as Cl), mg/l, Max	250	Beyond this limit, taste, corrosion and palatability are affected	1000
9	Dissolved solids, mg/l, Max	500	Beyond this, palatability decreases and may cause gastro-intestinal irritation	2000
10	Calcium (as Ca), mg/l, Max	75	Encrustation in water supply structure and adverse effects on domestic use	200
11	Nitrate (as NO <sub>3</sub> ), mg/l, Max	45	Beyond this methaemoglobinemia	100
12	Fluoride (as F), mg/l, Max	1.0	Fluoride maybe kept as low as possible. High fluoride may cause fluorosis	1.5
13	Cyanide (as CN), mg/l, Max	0.05	Beyond this, water becomes toxic	No relaxation
14	Lead (as Pb), mg/l, Max	0.05	Beyond this, water becomes toxic	No relaxation
15	Pesticides, mg/l,	Absent	Toxic	0.001
16	Mineral oil, mg/l, Max	0.01	Beyond this limit undesirable taste and odour take place after chlorination	0.03



\* The drinking water quality standards mentioned above are based on Indian Standards – 10500 (1991). 16 out of the 34 standards which would be most applicable to students have been tabulated here.