

Table 2: Permissible limits of drinking water quality

| Parameters                        | USEPA   | WHO     | ISI     | ICMR    | GPCB          | DOH     |
|-----------------------------------|---------|---------|---------|---------|---------------|---------|
| pH (mg/l)                         | 6.5-8.5 | 6.5-8.5 | 6.5-8.5 | 6.5-9.2 | 6.5-8.5       | 6.5-8.5 |
| Turbidity NTU                     | -       | -       | 10      | 25      | 10            | 5.0     |
| Conductivity (mg/l)               | -       | -       | -       | -       | 2000          | -       |
| Alkalinity (mg/l)                 | -       | -       | -       | -       | 600           | -       |
| Total hardness (mg/l)             | -       | 500     | 300     | 600     | 600           | 300     |
| Iron (mg/l)                       | -       | 0.1     | 0.3     | 1.0     | 1.0           | 1.0     |
| Chlorides (mg/l)                  | 250     | 200     | 250     | 1000    | 1000          | 250     |
| Nitrate (mg/l)                    | -       | -       | 45      | 100     | 100           | 50      |
| Sulfate (mg/l)                    | -       | -       | 150     | 400     | 400           | 250     |
| Residual (mg/l) free Chlorine     | -       | -       | 0.2     | -       | -             | 0.30    |
| Calcium (mg/l)                    | -       | 75      | 75      | 200     | 200           | -       |
| Magnesium (mg/l)                  | -       | 50      | 30      | -       | 100           | -       |
| Copper (mg/l)                     | 1.3     | 1.0     | 0.05    | 1.5     | 1.5           | 1.0     |
| Fluoride (mg/l)                   | 4.0     | 1.5     | 0.6-1.2 | 1.5     | 1.5           | 1.0     |
| Mercury (mg/l)                    | 0.002   | 0.001   | 0.001   | 0.001   | No relaxation | 0.001   |
| Cadmium (mg/l)                    | 0.005   | 0.005   | 0.01    | 0.01    | No relaxation | 0.003   |
| Selenium (mg/l)                   | 0.05    | 0.01    | -       | -       | No relaxation | 0.01    |
| Arsenic (mg/l)                    | 0.05    | 0.05    | 0.05    | 0.05    | No relaxation | 0.05    |
| Lead (mg/l)                       | -       | 0.05    | 0.10    | 0.05    | No relaxation | 0.01    |
| Zinc (mg/l)                       | -       | 5.0     | 5.0     | 0.10    | 15.0          | 5.0     |
| Chromium (mg/l)                   | 0.1     | -       | 0.05    | -       | No relaxation | 0.05    |
| E. coli (MPN 100 ml)              | -       | -       | -       | -       | No relaxation | -       |
| Total Dissolved Solids (TDS) mg/L | -       | -       | -       | -       | -             | 500     |
| Total Coliform, MPN/100 mL        | -       | -       | -       | -       | -             | < 1.1   |
| Fecal Coliform, MPN/100 mL        | -       | -       | -       | -       | -             | < 1.1   |
| Lead, mg/L                        | -       | -       | -       | -       | -             | 0.01    |
| Nickel, mg/L                      | -       | -       | -       | -       | -             | 0.02    |
| Benzene, mg/L                     | -       | -       | -       | -       | -             | 0.01    |

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