**TECHNICAL REQUIREMENTS**

**Article 4. List of domestic water quality parameters and permissible limits thereof**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Parameter** | **Unit** | **Permissible limit** |
| **Group A parameters** |
|  | *Microbiological parameters* |  |  |
| 1. | Coliform | CFU/100 mL | <3 |
| 2. | E.Coli or Fecal Coliform | CFU/100 mL | <1 |
|  | Organoleptic and inorganic parameters |
| 3. | Arsenic (As)(\*) | mg/L | 0.01 |
| 4. | FCR(\*\*) | mg/L | Within 0,2 - 1,0 |
| 5. | Turbidity | NTU | 2 |
| 6. | Color | TCU | 15 |
| 7. | Odor, taste | - | No odor and strange taste |
| 8. | pH | - | Within 6,0-8,5 |
| **Group B parameters** |
|  | *Microbiological parameters* |
| 9. | Staphylococcus aureus | CFU/ 100mL | < 1 |
| 10. | Ps. Aeruginosa | CFU/ 100mL | < 1 |
|  | *Inorganic parameters* |
| 11. | Ammonium (NH3 and NH4+expressed as N) | mg/L | 0,3 |
| 12. | Antimony (Sb) | mg/L | 0,02 |
| 13. | Barium (Bs) | mg/L | 0,7 |
| 14 | Borax and Boric acid (B) | mg/L | 0,3 |
| 15. | Cadmium (Cd) | mg/L | 0,003 |
| 16. | Lead (Plumbum) (Pb) | mg/L | 0,01 |
| 17. | Permanganate index | mg/L | 2 |
| 18. | Chloride (Cl-)(\*\*\*) | mg/L | 250 (or 300) |
| 19. | Chromi (Cr) | mg/L | 0,05 |
| 20. | Copper (Cuprum) (Cu) | mg/L | 1 |
| 21. | Hardness, expressed as CaCO3 | mg/L | 300 |
| 22. | Fluorine (F) | mg/L | 1,5 |
| 23. | Zinc (Zincum) (Zn) | mg/L | 2 |
| 24. | Manganese (Mn) | mg/L | 0,1 |
| 25. | Sodium (Na) | mg/L | 200 |
| 26. | Aluminium (Al) | mg/L | 0.2 |
| 27. | Nickel (Ni) | mg/L | 0,07 |
| 28. | Nitrate (NO3- expressed as N) | mg/L | 2 |
| 29. | Nitrite (NO2- expressed as N) | mg/L | 0,05 |
| 30. | Iron (Ferrum) (Fe) | mg/L | 0,3 |
| 31. | Selenium (Se) | mg/L | 0,01 |
| 32. | Sulfate | mg/L | 250 |
| 33. | Sulfur | mg/L | 0,05 |
| 34. | Mercury (Hydrargyrum) (Hg) | mg/L | 0,001 |
| 35. | Total dissolved solids (TDS) | mg/L | 1000 |
| 36. | Cyanide (CN) | mg/L | 0,05 |
|  | *Organic parameters* |  |  |
|  | *a. Chlorinated alkanes* |  |  |
| 37. | 1,1,1 -Trichloroethane | µg/L | 2000 |
| 38. | 1,2 - Dichloroethane | µg/L | 30 |
| 39. | 1,2 - Dichloroethane | µg/L | 50 |
| 40. | Carbon tetrachloride | µg/L | 2 |
| 41. | Dichloroethane | µg/L | 20 |
| 42. | Tetrachloroethylene | µg/L | 40 |
| 43. | Trichloroethane | µg/L | 20 |
| 44. | Vinyl chloride | µg/L | 0,3 |
|  | *b. Aromatic hydrocarbon* |  |  |
| 45. | Benzene | µg/L | 10 |
| 46. | Ethylbenzene | µg/L | 300 |
| 47. | Phenol and phenol derivatives | µg/L | 1 |
| 48. | Styrene | µg/L | 20 |
| 49. | Toluene | µg/L | I 700 |
| 50. | Xylene | µg/L | 500 |
|  | *c. Chlorinated benzenes* |  |  |
| 51. | 1,2 - Dichlorobenzene | µg/L | 1000 |
| 52. | Monochlorobenzene | µg/L | 300 |
| 53 | Trichlorobenzene | µg/L | 20 |
|  | *d. complex organic compounds* |  |  |
| 54. | Acrylamide | µg/L | 0,5 |
| 55. | Epichlorohydrin | µg/L | 0,4 |
| 56. | Hexachlorobutadiene | µg/L | 0,6 |
|  | *Pesticide parameters* |  |  |
| 57. | 1,2 - Dibromo - 3 Chloropropane | µg/L | 1 |
| 58. | 1,2 - Dichloropropane | µg/L | 40 |
| 59. | 1,3 - Dichloropropene | µg/L | 20 |
| 60. | 2,4-D | µg/L | 30 |
| 61. | 2,4 - DB | µg/L | 90 |
| 62 | Alachlor | µg/L | 20 |
| 63. | Aldicarb | µg/L | 10 |
| 64. | Atrazine and chloro-s-triazine derivatives | µg/L | 100 |
| 65. | Carbofuran | µg/L | 5 |
| 66. | Chlorpyrifos | µg/L | 30 |
| 67. | Chlordane | µg/L | 0,2 |
| 68. | Chlortoluron | µg/L | 30 |
| 69. | Cyanazine | µg/L | 0,6 |
| 70. | DDT and its derivatives | µg/L | 1 |
| 71. | Dichlorprop | µg/L | 100 |
| 72. | Fenoprop | µg/L | 9 |
| 73. | Hydroxyatrazine | µg/L | 200 |
| 74. | Isoproturon | µg/L | 9 |
| 75. | MCPA | µg/L | 2 |
| 76. | Mecoprop | µg/L | 10 |
| 77. | Methoxychlor | µg/L | 20 |
| 78. | Molinate | µg/L |   |
| 79. | Pendimetalin | µg/L | 20 |
| 80. | Permethrin Mg/t | µg/L | 20 |
| 81. | Propanil Uq/L | µg/L | 20 |
| 82. | Simazine | µg/L | 2 |
| 83. | Trifluralin | µg/L | 20 |
|  | *Parameters of disinfectants and disinfection byproducts* |
| 84. | 2,4,6 - Trichlorophenol | µg/L | 200 |
| 85. | Bromate | µg/L | 10 |
| 86. | Bromodichloromethane | µg/L | 60 |
| 87. | Bromoform | µg/L | 100 |
| 88. | Chloroform | µg/L | 300 |
| 89. | Dibromoacetonitrile | µg/L | 70 |
| 90. | Dibromochloromethane | µg/L | 100 |
| 91. | Dichloroacetonitrile | µg/L | 20 |
| 92. | Dichloroacetic acid | µg/L | 50 |
| 93. | Formaldehyde | µg/L | 900 |
| 94. | Monochloramine | µg/L | 3,0 |
| 95. | Monochloroacetic acid | µg/L | 20 |
| 96. | Trichloroacetic acid | µg/L | 200 |
| 97. | Trichloroacetonitrile | µg/L | 1 |
|   | *Radioactive parameters* |   |   |
| 98. | Gross alpha activity α | Bg/L | 0,1 |
| 99. | Gross beta activity β | Bg/L | 1,0 |