

**BIS Standards-10500- (2004-05) is followed for testing the
Quality of water in Water Supply Schemes**

| Sl.No | Parameter | Type | Acceptable | Maximum allowable |
|-------|---|------------|------------------|-------------------|
| 1. | Colour Pt/Co scale | Physical | 5 | 25 |
| 2. | Taste & Odour | Physical | Un objectionable | Un objectionable |
| 3. | Turbidity NTU | Physical | 5 | 10 |
| 4. | Total Dissolved Solids mg/L | Physical | 500 | 2000 |
| 5. | pH | Non Metal | 6.5-8.5 | 6.5-8.5 |
| 6. | Alkalinity (as CaCO ₃) mg/L | Non Metal | 200 | 600 |
| 7. | Total Hardness (as CaCO ₃) mg/L | Metal | 300 | 600 |
| 8. | Calcium (as Ca) mg/L | Metal | 75 | 200 |
| 9. | Magnesium (as Mg) mg/L | Metal | 30 | 100 |
| 10. | Sodium (as Na) mg/L | Metal | - | - |
| 11. | Iron (as Fe) mg/L | Metal | 0.3 | 1.0 |
| 12. | Manganese (as Mn) mg/L | Metal | 0.1 | 0.3 |
| 13. | Chloride (as Cl) mg/L | Non Metal | 250 | 1000 |
| 14. | Fluoride (as F) mg/L | Non Metal | 1 | 1.5` |
| 15. | Sulphate (as SO ₄) mg/L | Non Metal | 200 | 400 |
| 16. | Nitrate (as NO ₃) mg/L | Non Metal | 45 | 45 |
| 17. | Copper (as Cu) mg/L | Metal | 0.05 | 1.5 |
| 18. | Cadmium (as Cd) mg/L | Metal | 0.01 | 0.01 |
| 19. | Selenium (as Se) mg/L | Metal | 0.01 | 0.01 |
| 20. | Mercury (as Hg) mg/L | Metal | 0.001 | 0.001 |
| 21. | Arsenic (as As) mg/L | Metal | 0.05 | 0.05 |
| 22. | Lead (as Pb) mg/L | Metal | 0.05 | 0.05 |
| 23. | Zinc (as Zn) mg/L | Metal | 5.0 | 15.0 |
| 24. | Chromium (as Cr) mg/L | Metal | 0.05 | 0.05 |
| 25. | Cyanide (as CN) mg/L | Non Metal | 0.05 | 0.05 |
| 26. | Anionic Detergents (as MBAS) mg/L | Non Metal | 0.2 | 1.0 |
| 27. | Phenolic compounds mg/L | Non Metal | 0.001 | 0.002 |
| 28. | Polynuclear aromatic hydrocarbons (PAH) mic g/L | Non Metal | - | - |
| 29. | Mineral oil mg/L | Non Metal | 0.01 | 0.03 |
| 30. | Pesticides mg/L | Non Metal | absent | 0.001 |
| 31. | Free Chlorine mg/L | Non Metal | 0.2 | 0.2 |
| 32. | Aluminium mg/L | Metal | 0.03 | 0.2 |
| 33. | Boron mg/L | Non metal | 1 | 5.0 |
| 34. | Alpha emitters Bq/L | Rad | - | 0.1 |
| 35. | Beta emitters Bq/L | Rad | - | 1 |
| 36. | Fecal Coliform Counts/mL | Bact. | - | Nil |
| 37. | Protozoa | Biological | - | Nil |
| 38. | Helminths | Biological | - | Nil |
| 39. | Free living organisms | Biological | - | Nil |

Drinking water quality guide lines- CPHEEO 1999

| Sl. No | Parameter | Type | Acceptable | Maximum allowable |
|--------|---|-----------|------------------|-------------------|
| 1. | Colour Pt/Co scale | Physical | 5 | 25 |
| 2. | Taste & Odour | Physical | Un objectionable | Un objectionable |
| 3. | Turbidity NTU | Physical | 1 | 10 |
| 4. | Total Dissolved Solids mg/L | Physical | 500 | 2000 |
| 5. | pH | Non Metal | 7.0-8.5 | 6.5-9.2 |
| 6. | Alkalinity (as CaCO ₃) mg/L | Non Metal | 200 | 600 |
| 7. | Total Hardness (as CaCO ₃) mg/L | Metal | 200 | 600 |
| 8. | Calcium (as Ca) mg/L | Metal | 75 | 200 |
| 9. | Magnesium (as Mg) mg/L | Metal | >=30 | 150 |
| 10. | Sodium (as Na) mg/L | Metal | - | - |
| 11. | Iron (as Fe) mg/L | Metal | 0.1 | 1.0 |
| 12. | Manganese (as Mn) mg/L | Metal | 0.05 | 0.5 |
| 13. | Chloride (as Cl) mg/L | Non Metal | 200 | 1000 |
| 14. | Fluoride (as F) mg/L | Non Metal | 1 | 1.5 |
| 15. | Sulphate (as SO ₄) mg/L | Non Metal | 200 | 400 |
| 16. | Nitrate (as NO ₃) mg/L | Non Metal | 45 | 45 |
| 17. | Copper (as Cu) mg/L | Metal | 0.05 | 1.5 |
| 18. | Cadmium (as Cd) mg/L | Metal | 0.01 | 0.01 |
| 19. | Selenium (as Se) mg/L | Metal | 0.01 | 0.01 |
| 20. | Mercury (as Hg) mg/L | Metal | 0.001 | 0.001 |
| 21. | Arsenic (as As) mg/L | Metal | 0.01 | 0.05 |
| 22. | Lead (as Pb) mg/L | Metal | 0.05 | 0.05 |
| 23. | Zinc (as Zn) mg/L | Metal | 5.0 | 15.0 |
| 24. | Chromium (as Cr) mg/L | Metal | 0.05 | 0.05 |
| 25. | Cyanide (as CN) mg/L | Non Metal | 0.05 | 0.05 |
| 26. | Anionic Detergents (as MBAS) mg/L | Non Metal | 0.2 | 1.0 |
| 27. | Phenolic compounds mg/L | Non Metal | 0.001 | 0.002 |
| 28. | Polynuclear aromatic hydrocarbons (PAH) mic g/L | Non Metal | 0.2 | 0.2 |
| 29. | Mineral oil mg/L | Non Metal | 0.01 | 0.03 |
| 30. | Pesticides mg/L | Non Metal | absent | As per WHO |
| 31. | Free Chlorine mg/L | Non Metal | 0.2 | 1.0 |
| 32. | Aluminium mg/L | Metal | 0.03 | 0.2 |
| 33. | Boron mg/L | Non metal | - | - |
| 34. | Alpha emitters Bq/L | Rad | 0.1 | 0.1 |

| Sl. No | Parameter | Type | Acceptable | Maximum allowable |
|--------|--------------------------|------------|------------|-------------------|
| 35. | Beta emitters Bq/L | Rad | 1 | 1 |
| 36. | Fecal Coliform Counts/mL | Bact. | Nil | Nil |
| 37. | Protozoa | Biological | Nil | Nil |
| 38. | Helminths | Biological | Nil | Nil |
| 39. | Free living organisms | Biological | Nil | Nil |

Water Quality Guide lines WHO

| Sl. No | Parameter | Type | Acceptable |
|--------|---|------------|------------|
| 1. | Colour Pt/Co scale | Physical | 15 |
| 2. | Taste & Odour | Physical | - |
| 3. | Turbidity NTU | Physical | 5 |
| 4. | Total Dissolved Solids mg/L | Physical | 1000 |
| 5. | pH | Non Metal | - |
| 6. | Alkalinity (as CaCO ₃) mg/L | Non Metal | - |
| 7. | Total Hardness (as CaCO ₃) mg/L | Metal | - |
| 8. | Calcium (as Ca) mg/L | Metal | - |
| 9. | Magnesium (as Mg) mg/L | Metal | - |
| 10. | Sodium (as Na) mg/L | Metal | 200 |
| 11. | Iron (as Fe) mg/L | Metal | 0.3 |
| 12. | Manganese (as Mn) mg/L | Metal | 0.1 |
| 13. | Chloride (as Cl) mg/L | Non Metal | 250 |
| 14. | Fluoride (as F) mg/L | Non Metal | 1.5 |
| 15. | Sulphate (as SO ₄) mg/L | Non Metal | 250 |
| 16. | Nitrate (as NO ₃) mg/L | Non Metal | 50 |
| 17. | Copper (as Cu) mg/L | Metal | 2.0 |
| 18. | Cadmium (as Cd) mg/L | Metal | 0.003 |
| 19. | Selenium (as Se) mg/L | Metal | 0.01 |
| 20. | Mercury (as Hg) mg/L | Metal | 0.001 |
| 21. | Arsenic (as As) mg/L | Metal | 0.01 |
| 22. | Lead (as Pb) mg/L | Metal | 0.01 |
| 23. | Zinc (as Zn) mg/L | Metal | 3.0 |
| 24. | Chromium (as Cr) mg/L | Metal | 0.05 |
| 25. | Cyanide (as CN) mg/L | Non Metal | 0.07 |
| 26. | Anionic Detergents (as MBAS) mg/L | Non Metal | - |
| 27. | Phenolic compounds mg/L | Non Metal | - |
| 28. | Polynuclear aromatic hydrocarbons (PAH) mic g/L | Non Metal | - |
| 29. | Mineral oil mg/L | Non Metal | - |
| 30. | Pesticides mg/L | Non Metal | - |
| 31. | Free Chlorine mg/L | Non Metal | 5.0 |
| 32. | Aluminium mg/L | Metal | 0.2 |
| 33. | Boron mg/L | Non metal | 0.3 |
| 34. | Alpha emitters Bq/L | Rad | 0.1 |
| 35. | Beta emitters Bq/L | Rad | 1 |
| 36. | Fecal Coliform Counts/mL | Bact. | Nil |
| 37. | Protozoa | Biological | Nil |
| 38. | Helminths | Biological | Nil |
| 39. | Free living organisms | Biological | Nil |