*Published in Nepal Gazette in 2058/01/17*

Government of Nepal
**Ministry of Population and Environment**
Kathmandu

## GENERIC STANDARDS
## Generic Standard
## Part I
## Tolerance Limits for Industrial Effluents to be Discharged into Inland Surface Waters

| **Characteristics** | **Tolerance Limit** |
|---|---|
| Total Suspended solids, mg/L, Max | 30-200 |
| Particle size of total suspended particles | Shall pass 850-micron Sieve. |
| pH | 5.5 to 9.0 |
| Temperature | Shall not exceed 40 degree C in any section of the stream within 15 meters down-stream from the effluent outlet. |
| Biochemical oxygen demand (BOD) for 5 days at 20 degree C, mg/L, Max | 30-100 |
| Oils and grease, mg/L, Max | 10 |
| Phenolic compounds, mg/L, Max | 1 |
| Cynides (as CN), mg/L, Max | 0.2 |
| Sulphides (as S), mg/L, Max | 2 |
| Radioactive materials: | |
| a. Alpha emitters, c/ml, Max | $10^{-7}$ |
| b. Beta emitters, c/ml, Max | $10^{-8}$ |
| Insecticides | Absent |
| Total residual chlorine, mg/L | 1 |
| Fluorides (as F), mg/L, Max | 2 |
| Arsenic (as As), mg/L, Max | 0.2 |
| Cadmium (as, Cd), mg/L, Max | 2 |
| Hexavalent chromium (as Cr), mg/L, Max | 0.1 |
| Copper (as Cu), mg/L, Max | 3 |
| Lead (as Pb), mg/L, Max | 0.1 |
| Mercury (as Hg), mg/L, Max | 0.01 |
| Nickel (as Ni), mg/L, Max | 3 |
| Selenium (as Se), mg/L, Max | 0.05 |
| Zinc (as Zn), mg/L, Max | 5 |
| Ammonical nitrogen, mg/L, Max | 50 |
| Chemical Oxygen Demand, mg/L, Max | 250 |
| Silver, mg/L, Max | 0.1 |

*Published in Nepal Gazette in 2060/03/09*

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## Generic Standard
## Part II
## Tolerance Limits for Industrial Effluents to be Discharged into Public Sewers

| **Characteristics** | **Tolerance Limit** |
|---|---|
| Total Suspended solids, mg/L, Max | 600 |
| pH | 5.5 to 9.0 |
| Temperature, 0C, Max | 45 |
| Biochemical oxygen demand (BOD) for 5 days at 20 degree C, mg/L, Max | 400 |
| Oils and grease, mg/L, Max | 50 |
| Phenolic compounds, mg/L, Max | 10 |
| Cynides (as CN), mg/L, Max | 2 |
| Sulphides (as S), mg/L, Max | 2 |
| Chloride (Cl), mg/L, Max | 1000 |
| Insecticides | Absent |
| Sulphates ($SO_4$), mg/L, Max | 500 |
| Fluorides (as F), mg/L, Max | 10 |
| Arsenic (as As), mg/L, Max | 1 |
| Cadmium (as, Cd), mg/L, Max | 2 |
| Total Chromium, mg/L, Max | 2 |
| Copper (as Cu), mg/L, Max | 3 |
| Lead (as Pb), mg/L, Max | 0.1 |
| Mercury (as Hg), mg/L, Max | 0.01 |
| Nickel (as Ni), mg/L, Max | 3 |
| Selenium (as Se), mg/L, Max | 0.05 |
| Zinc (as Zn), mg/L, Max | 5 |
| Ammonical nitrogen, mg/L, Max | 50 |
| Chemical Oxygen Demand, mg/L, Max | 1000 |
| Silver, mg/L, Max | 0.1 |
| Total Dissolved Solids, mg/l, Max | 2100 |
| Mineral Oils, mg/L, Max | 10 |
| Inhibition of nitrification test at 200ml/l | < 50% |

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**Part I**
**Tolerance Limits for Industrial Effluents to be Discharged into Inland Surface Waters**

## Generic Standard
## Part III
## Tolerance Limits for Wastewater to be Discharged into Inland Surface Waters from Combined Wastewater Treatment Plant

| **Characteristics** | **Tolerance Limit** |
|---|---|
| Total Suspended solids, mg/L, Max | 50 |
| Particle size of total suspended particles | Shall pass 850-micron Sieve. |
| pH | 5.5 to 9.0 |
| Temperature | Shall not exceed 40 degree C in any section of the stream within 15 meters down-stream from the effluent outlet. |
| Biochemical oxygen demand (BOD) for 5 days at 20 degree C, mg/L, Max | 50 |
| Oils and grease, mg/L, Max | 10 |
| Phenolic compounds, mg/L, Max | 1 |
| Cynides (as CN), mg/L, Max | 0.2 |
| Sulphides (as S), mg/L, Max | 2 |
| **Radioactive materials:** | |
| a. Alpha emitters, c/ml, Max | $10^{-7}$ |
| b. Beta emitters, c/ml, Max | $10^{-8}$ |
| Insecticides | Absent |
| Total residual chlorine, mg/L | 1 |
| Fluorides (as F), mg/L, Max | 2 |
| Arsenic (as As), mg/L, Max | 0.2 |
| Cadmium (as, Cd), mg/L, Max | 2 |
| Hexavalent chromium (as Cr), mg/L, Max | 0.1 |
| Copper (as Cu), mg/L, Max | 3 |
| Lead (as Pb), mg/L, Max | 0.1 |
| Mercury (as Hg), mg/L, Max | 0.01 |
| Nickel (as Ni), mg/L, Max | 3 |
| Selenium (as Se), mg/L, Max | 0.05 |
| Zinc (as Zn), mg/L, Max | 5 |
| Ammonical nitrogen, mg/L, Max | 50 |
| Chemical Oxygen Demand, mg/L, Max | 250 |
| Silver, mg/L, Max | 0.1 |