

Annex B – Standards for Quality of Drinking Water

Sl. No.	Item	Unit	Limit in Yemen		WHO Standards
			Desirable	Permissible	
Physical Parameter					
1.	Taste	-	Acceptable to people		Should be acceptable
2.	Odor	-	Acceptable to people		Should be acceptable
3.	Color	Pt-Co	15	15	15 TCU
4.	Turbidity	NTU	1	5	Median 5 ≤1 Single ≤5
5.	Temperature	C	8-25	25	-
6.	pH	-	6.5-8.5	5.5-9	-
7.	Electrical Conductivity (EC)	μmhos/cm	450-1000	2500	-
Chemical Parameters					
1.	Total Dissolved Solids (TDS)	mg/l	650	1500	-
2.	Bicarbonate (HCO ₃)	mg/l	150	500	-
3.	Chloride(Cl)	mg/l	200	600	250
4.	Sulfate (SO ₄)	mg/l	200	600	-
5.	Fluoride(F)	mg/l	0.5	1.5	1.5
6.	Calcium (Ca)	mg/l	75	200	-
7.	Magnesium (Mg)	mg/l	30		-
8.	Barium (Ba)	mg/l	0.1	0.15	0.7
9.	Sodium (Na)	mg/l	200	400	-
10.	Potassium (K)	mg/l	12	12	-
11.	Nitrate (NO ₃)	mg/l	45	50	50
12.	Iron (Fe)	mg/l	0.3	1	0.3
13.	Manganese (Mn)	mg/l	0.1	0.2	0.1
14.	Copper (Cu)	mg/l	1	1.5	1
15.	Zinc (Zn)	mg/l	5	15	-
16.	Silver (Ag)	mg/l	0.01	0.02	-
17.	Aluminium (Al)	mg/l	0.2	0.3	0.2
18.	Nickel (Ni)	mg/l	0.05	0.1	0.02
19.	Boron (B)	mg/l	0.5	1	0.3
Organic Compounds					
1.	Endrin	mg/l	0.0002		-
2.	Methoxine	mg/l	0.1		-
3.	Toxaphene	mg/l	0.002		-
1.	Lead	mg/l	0.05		0.01
2.	Selenium	mg/l	0.01		0.01
3.	Arsenic	mg/l	0.05		0.01
4.	Chromium	mg/l	0.05		0.05
5.	Cyanide	mg/l	0.1		0.07
6.	Cadmium	mg/l	0.005		0.003
7.	Mercury	mg/l	0.001		0.001
8.	Antimony	mg/l	0.01		0.005
Chemical Pollutants					
1.	Ammonium Hydroxide	mg/l	0.5		1.5
2.	Phosphorous Pentoxide	mg/l	5		-
3.	Silicon Dioxide	mg/l	40		-
4.	Biochemical Oxygen Demand	mg/l	NA		-
5.	Chemical Oxygen Demand	mg/l	3		-
Radio Active Compounds					
1.	Alpha emitters	pCi/l	0.1		0.1 μg/l
2.	Beta emitters	pCi/l	1		1 μg/l
Viruses – Microbiological					
1.	Coliforms	No./100 ml	Nil		-
2.	Fecal Coliforms	No./100 ml	Nil		-