

The Description on data interval of parameter with respect Bureau of Indian Standards (BIS 2012) and World Health Organization (World Health Organization 2011) for drinking water of study area.

Parameter	BIS Standards (2012)	WHO Standards(2011)	Water Quality status
TDS (mg/L)	500	500	Acceptable Limit (AL)
	2000		Permissible limit in the absence of alternate source (PL)
Bacteriology	Detectable	-	Must not be detectable in any 100 ml sample. In the case of large supplies, where sufficient
	Non-Detectable		
Electrical conductivity (μ S/cm)	-	1500	PL
pH	6.5-8.5	6.5-8.5	AL
	No Relaxation		PL
Sodium (mg/L)	-	200	PL
Potassium (mg/L)	-	12	PL
Calcium (mg/L)	75	75	AL
	200		PL
Magnesium (mg/L)	30	50	
Chloride (mg/L)	250	250	AL
	1000		PL
Sulphate (mg/L)	200	250	AL
	400		PL
Total Alkalinity (as CaCO ₃), mg/L	200	500	AL
	600		PL
Total Hardness (as CaCO ₃), mg/L	200	-	AL
	600		PL

**Result of factor weighting , Priority of water quality parameters on Water quality delineation and
Inconsistency index of Water quality factors**

Sl.No	Criterion	Weight in %	Priority	Inconsistency Index
1	TDS	29.6	1	0.1455
2	Feacal Coliform	29.6	1	0.0011
3	EC	9.0	2	0.1455
4	pH	9.0	2	0.1304
5	Sulphate	9.0	2	0.1304
6	Total alkalinity	3.5	3	0.1356
7	Chloride	3.5	3	0.1270
8	Sodium	1.4	4	0.0023
9	Potassium	1.4	4	0.0016
10	Calcium	1.4	4	0.1456
11	Total hardness	1.4	4	0.1393
12	Magnesium	1.0	5	0.1356