

**Project Design Phase-I**  
**Assessing the safety of municipal drinking water**

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Team ID	NM2023TMID19072
Project Name	Assessing the safety of municipal drinking water

**Assessing the safety of municipal drinking water Template:**

Parameters	GoB [21]	WHO [22]	USEPH [23]
pH	6.5–8.5	6.5–9.2	6.0–8.5
TDS (mg/l)	1000	500	500
SS (mg/l)	10	5.5	5.0
EC ( $\mu\text{S}/\text{cm}$ )	1200	–	300
DO (mg/l)	6	4–6	4–6
BOD (mg/l)	2	6	5
COD (mg/l)	4	10	4
$\text{Cl}^-$ (mg/l)	150–600	500	250
$\text{Na}^+$ (mg/l)	20	6.5	10
$\text{K}^+$ (mg/l)	12	1.2	1.5
$\text{Ca}^{2+}$ (mg/l)	75	100	100
$\text{Mg}^{2+}$ (mg/l)	30–35	150	30
$\text{NH}_4^+$ (mg/l)	0.5	0.5	0.5
$\text{NO}_3^-$ (mg/l)	10	10	10
$\text{SO}_4^{2-}$ (mg/l)	400	100	100