

TABLE 7.3: WATER QUALITY STANDARDS AND FREQUENCY OF MONITORING

PARAMETERS	RAW WATER		STANDARD	DRINKING WATER		
	Recommended Acceptable Value	Frequency of Monitoring		FREQUENCY OF MONITORING		
				Treatment Plant Outlet	Service Reservoir Outlet	Distribution System
<b>MICROBIOLOGICAL:</b> TOTAL COLIFORM	5000	W	MPN Method • Should not exceed 10 MPN/100ml  • Should not be detectable in 2 consecutive samples  • Throughout a year coliform in 100ml should not be detected in 95% of samples  MEMBRANCE FILTER Method: • Arithmetic mean of all monthly samples is 3 colonies/100ml  • Not more than 4 colonies/100ml in 2 consecutive samples	W	W	W
FAECAL COLIFORM	—	—	Absent in 100ml sample	W	W	M
FAECAL STREPTOCOCCI CLOSTRIDIUM PERFRINGES VIRUSES PROTOZOA HELMINTHS	—	—	Absent	WN	WN	WN
<b>PHYSICAL-GROUP I:</b> TURBIDITY COLOUR pH FREE RESIDUAL CHLORINE COMBINED RESIDUAL CHLORINE	1000 300 5.5-9.0 — — —	W W W — —	5 15 6.5-9.0 Not less than 0.2 Not less than 10	W W W W W	W W W W W	M M M M M
<b>INORGANIC - GROUP II:</b> TOTAL DISSOLVED SOLIDS CCE BIOCHEMICAL OXYGEN DEMAND CHEMICAL OXYGEN DEMAND CHLORIDE ANIONIC DETERGENT MBAS AMMONIA (As N) NITRATE (As N) TOTAL NITROGEN As N (excluding NO <sub>3</sub> ) IRON FLUORIDE HARDNESS ALUMINIUM MANGANESE	1500 0.5 6 10 250 1.0 0.5 10 1.0 1.0 1.5 500 - -	M M M M M M M M M M M M - -	1000 0.5 - - 250 1.0 0.5 10 - 0.3 0.9 500 0.2 0.1	M M - - M M M M - M M M M M	M M - - M M M M - M M M M M	Y/2 Y/2 - - Y/2 Y/2 Y/2 Y/2 - Y/2 Y/2 Y/2 Y/2 Y/2