

Utility Regulatory Authority
Male',
Republic of Maldives



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ގަވާއިދު
ނަންބަރު 10/2021

Guideline: Drinking Water

URA 4003:2021

Sample collection procedure

1. If the sampling tap is metallic, apply surgical spirit around mouth of the tap both from inside and its outside. Use flame to burn it to disinfect.
2. If the tap is plastic, then avoid the first step
3. Let water run from the tap for a minute.
4. Do not touch or get contact with the opening of the tap after disinfection.
5. Disinfected 125ml glass bottles shall be used for sampling.
6. Remove the cap from the sterile collection bottle, being careful not to contaminate either the inside of the cap or bottle.
7. Grasp the bottle near its base and allow the bottle to be filled by the running tap.
8. Always keep the mouth of the bottle/container ahead of the hand so as not to contaminate the sample.
9. Replace the cap immediately after the fill.
10. Store the samples on ice immediately for transport to the laboratory.
11. The date and time of the sample, the location of the sample, name of the island including Atoll (if the sample is to be taken to different island for testing) shall be labeled on the bottle.

The water produce for drinking purposes shall have the following parameters in given ranges. The following parameters needed to be tested and report to Utility Regulatory Authority according to the timeframe given bellow

Table- 1 Weekly Tests

The following parameters must be tested weekly.

Parameters	<u>Reference Range</u>
• Free chlorine	0.2-0.5 mg/l
• PH	6.5-8.5
• Physical Appearance	Clear & Colorless
• Temperature	
• Electrical Conductivity	<1500 µs/cm
• Total Coliforms	0/100ml
• Faecal Coliforms	0/100ml

Table-2 Six monthly Tests

The following parameters must be tested every six months along with those given in table- 1 above.

Parameters	<u>Reference Range</u>
• Turbidity	<5NTU
• Total Dissolved Solids	<1000 mg/l
• Chloride	<250 mg/l
• Nitrates	<50 mg/l
• Ammonia	<1.5 mg/l
• Iron	<0.3 mg/l
• Total Coliforms (MF)	0/100ml
• Faecal Coliforms (MF)	0/100ml

Table- 3 Annual Tests

The Following parameters must be tested annually along with those given in Table- 1 and Table- 2.

Parameters	<u>Reference Range</u>
• Sulphate	<250mg/l
• Manganese	<0.1mg/l
• Total Petroleum Hydro Carbon	
• Sodium	<200mg/l
• Potassium	
• Calcium Hardness	
• Total Hardness	
• Bromine	
• Total Residual Chlorine	
• Hydrogen Sulphide	<0.05mg/l
• Mercury	<0.001mg/l
• Lead	<0.01mg/l
• Copper	<2mg/l
• Boron	<0.3mg/l
• Arsenic	<0.01mg/l
• Fluoride	<1.5mg/l
• Phenolic compounds	
• Anionic detergents	
• Cadmium	<0.003mg/l
• Chromium	<0.05mg/l
• Cyanide	<0.07mg/l

**In addition to this log on pH and conductivity recordings from the plant should be kept on site*

Source: WHO Guideline for Drinking Water