

# Sagarmatha Water Industry

**Issue Date:**

**Revision Date:**

**Doc. No.: SWI/QP/01/01**

## Incoming Quality Plan

Process	Characteristics	Specification	Sampling Plan	Test Method	Acceptance Criteria	Control Plan	Ref Records	Responsibility
<b>Physical Analysis</b>								
<b>Collection at Source</b>	Color	Colorless	Once in a Week	Visual	As per specification	If do not justify the specification, reject/drain the water.	Lab Test Record	QA Dept./ QC Incharge
	Odor	Odorless	Do	Sensory evaluation	As per specification	Do	Do	
	Taste	Tasteless	Do	Do	Do	Do	Do	
	Suspended Matter	Free	Do	Visual	Do	Do	Do	
	Turbidity	Free (Up to 5 NTU)	Do	Visual	Do	Do	Do	
	External Contamination	Free	Do	Visual	Do	Do	Do	
	pH	6.5-8.5	Do	Lab Manual	Do	Do	Do	
	TDS	<500 mg/l	Do		Do	Do	Do	
<b>Chemical Analysis</b>								
	Bicarbonate Alkalinity (As CaCO <sub>3</sub> )	<80 mg/l	Do	Lab Manual	As per specification	If do not justify the specification, reject/drain the water.	Do	
	Calcium	<50 mg/l	Do	Lab Manual	Do	Do	Do	
	Magnesium (As Mg)	<30 mg/l	Do	Lab Manual	Do	Do		
	Chloride (As Cl)	<10 mg/l	Do	Lab Manual	Do	Do	Do	
	Iron (As Fe)	<0.001 mg/l	Do	Lab Manual	Do	Do	Do	
	Ammonia (As N)	<0.02 mg/l	Do	Lab Manual	Do	Do	Do	
<b>Microbiological Analysis</b>								
	Coliform	Up to 25 mpn/100 ml	Once in a Month	Lab Manual	Do	If do not justify the specification, reject/drain the water.	Do	
	F. coliform	0 mpn/100 ml	Once in a Month	Lab Manual	Do	Do	Do	

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## In Process Quality Plan

Process	Characteristics	Specification	Sampling Plan	Test Method	Acceptance Criteria	Control Plan	Ref Records	Responsibility
	<b>Physical Analysis</b>							
<b>After Carbon Filter</b>	Color	Colorless	Once in a Week	Visual	As per specification	If do not justify the specification, reject/drain the water.	Lab Test Record	QA Dept./ QC Incharge
	Odor	Odorless	Do	Sensory evaluation	As per specification	Do	Do	
	Taste	Tasteless	Do	Do	Do	Do	Do	
	Suspended Matter	Free	Do	Visual	Do	Do	Do	
	Turbidity	Free (Up to 5 NTU)	Do	Visual	Do	Do	Do	
	External Contamination	Free	Do	Visual	Do	Do	Do	
	pH	6.5-8.5	Do	Lab Manual	Do	Do	Do	
<b>After Ceramic Filter</b>	TDS	<500 mg/l	Do		Do	Do	Do	
<b>After Resin Filter</b>	Calcium	<50 mg/l	Do	Lab Manual	Do	Do	Do	
	Magnesium (As Mg)	<30 mg/l	Do	Lab Manual	Do	Do	Do	
<b>After Reverse Osmosis</b>	Chloride (As Cl)	0 mg/l	Do	Lab Manual	Do	Do	Do	
	Iron (As Fe)	0 mg/l	Do	Lab Manual	Do	Do	Do	
	Ammonia (As N)	0 mg/l	Do	Lab Manual	Do	Do		
	Calcium	0 mg/l	Do	Lab Manual	Do	Do	Do	
	Magnesium (As Mg)	0 mg/l	Do	Lab Manual	Do	Do	Do	
<b>After UV Treatment</b>	Coliform	0 mpn/100 ml	Once in a Week	Lab Manual	Do	If do not justify the specification, reject/drain the water.	Do	
	F. coliform	0 mpn/100 ml	Once in a Week	Lab Manual	Do	Do	Do	

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### Final Quality Plan

Process	Characteristics	Specification	Sampling Plan	Test Method	Acceptance Criteria	Control Plan	Ref Records	Responsibility
<b>Final Water</b>	<b>Physical Analysis</b>							
	Color	Colorless	Daily	Visual	As per specification	If do not justify the specification, reject/drain/ regenerate the water.	Lab Test Record	QA Dept./ QC Incharge
	Odor	Odorless	Do	Sensory evaluation	Do		Do	Do
	Taste	Tasteless	Do	Do	Do		Do	Do
	Suspended Matter	Free	Do	Visual	Do		Do	Do
	Turbidity	Free (Up to 5 NTU)	Do	Visual	Do		Do	Do
	External Contamination	Free	Do	Visual	Do		Do	Do
	pH	6.5-8.0	Do	Lab Manual	Do		Do	Do
	TDS	50-80 mg/l	Do	Lab Manual	Do		Do	Do
	<b>Chemical Analysis</b>							
	Total Alkalinity (As CaCO <sub>3</sub> )	<60 mg/l	Do	Lab Manual	As per specification	If do not justify the specification, reject/drain/ regenerate the water.	Do	Do
	Calcium Hardness(as CaCO <sub>3</sub> )	<100 mg/l	Do	Lab Manual	Do		Do	Do
	Magnesium Hardness(As CaCO <sub>3</sub> )	<75 mg/l	Do	Lab Manual	Do		Do	Do
	Chloride (As Cl)	<6 mg/l	Do	Lab Manual	Do		Do	Do
	Total Hardness	<200 gm/l					Do	Do
	Ammonia (As N)	<0.01 mg/l	Do	Lab Manual	Do		Do	Do
	<b>Microbiological Analysis</b>							
	Coliform	0 mpn/100 ml	Once in a Week	Lab Manual	Do	If do not justify the specification, reject/drain the water.	Do	Do
	F. coliform	0 mpn/100 ml	Once in a Week	Lab Manual	Do		Do	Do
	Total Count	< 25/ml	Once in a 6 month	External	Do		Lab Test Record (External)	Do

**Note:**

The specifications of Trace Metals and other Microbiological tests shall be as per the requirements of Regulatory Body- (Central Food Research Center) – The microbiological and Trace metals shall be tested from outside laboratory twice in a year.