

INSTALLATION CONDITIONS – RAW WATER ANALYSIS REPORT

Please provide as much information as possible

PROJECT DESCRIPTION

- Public
- Private

Company name and contact

person(s): Address /Country:

Country and place of installation _____

Approximate date of installation _____

TECHNICAL ASPECTS OF THE SITE

A) Water Source / collection:

What is the nature of the water source?

- Well / Borehole
- River / Creek
- Lake / Pond
- Ocean / Sea
- Public water networks
- Other(s): _____

If a well, what is its nature?

- Artesian well
- Ground well
- drilling

If a borehole, what is the depth (in meters)?

Maximum depth: _____

Static depth (level of water when not pumping): _____

Active depth (level of water when actively pumping): _____

If a pump already exists, please clarify:

Type of pump: _____

Flow (in L/H): _____

Pressure (in bars): _____

Water pipe diameter (inmm): _____

If a reservoir already exists, clarify:

Capacity(m3): _____

Height (in meters): _____

Pipe diameter (in mm): _____

Is the source salt water or fresh water?

- Fresh water
- Brackish water
- Sea water
- Approximate level of TDS (Total Dissolved solids): _____

What other types of contaminant are in the water?

- Ferric Oxide
- Arsenic
- Oils
- Nitrate
- Other(s): _____

What is the average temperature of the water?

What is the minimum and maximum temperatures of the water?

How do we reach the place of installation?

Road

d

Path

Inaccessible (air lifting required)

Other(s): _____

What is the nature of the land?

Cultivated

Natural

Other(s): _____

The unit will be exposed to natural risks?

Flooding

Rock fall

Mudslides

Others(s): _____

What is the distance between the water source and the water unit (approx. in meters)?

What is the average air temperature?

How many hours of sun per day? Please, check your local conditions.

What is the strength of wind? Please check your local wind conditions. (In m/s)

What type of energy is available on site?

- Public electricity network
- Gas/generator networks
- Solar power
- Other: _____

Is a generating set already exists, specify:

Type of generating set: _____

Power (in Kw): _____

What is the common electricity voltage?

- 110V
- 220V
- 380V
- 60 Hz
- 50Hz
- Other(s): _____

C) Storage /Distribution:

Is there a reservoir or packaging unit in the installation site?

- Water tower
- Gallons
- Cistern / tank
- Packaging equipment (bottling line, bagging unit)
- None
- Other(s): _____

How will the water be distributed on site?

- Manual pump
- Water fountain
- Recovery pump towards a local distribution network

If a recovery pump already exists, specify:

Type of recovery pump: _____

Output(inL/h): _____

Pressure (in bars): _____

Diameter of water duct (in mm): _____

How many people need to be provided daily with clean drinking water :

By day ? By person ?

How many liters of water need to be produced per day : m3 : Liters :

Which options would need to be added for storage and distribution?

Gallons 5 L: 10 L: 20 L: they can be refilled several times

Numbers : of 5 L = of 10 L = of 20 L =

- Bag in Box of 3 L 5 L with tap. Can be refilled several times**
- Numbers : of 3 L = 5 L =**

- Ice machine for blocks of : 5 Kgs - 10 Kgs - 20 Kgs
- Autonomous Cold container for Refrigeration (with solar panels)
- Other(s) options

PHYSICO-CHEMICAL ANALYSIS					
CATIONS	mg/L (ppm)	°F	ANIONS	mg/L (ppm)	°F
Calcium (Ca)			M-Alkalinity (HCO3)		
Magnesium (Mg)			P-Alkalinity (CO3)		
Total Hardness (TH)			Carbonic Gas (CO2)		
Sodium (Na)			Sulfates (SO4)		
Potassium (K)			Chlorides (Cl)		
Iron (Fe)			Nitrates (NO3)		
Manganese (Mn)			Fluor (F)		
Aluminium (Al)			Silica (SiO2)		
Baryum (Ba)					
Strontium (Sr)					
Ammonium (NH4)					

TDS (Total Disolved Solids)	mg/L	Suspended Solids	mg/L
ST (Total Salinity)	°F	TOC (Total Organic Carbon)	mg/L
pH		Temperature	°F
Dry residue	mg/L	Conductivity	µS
Free Chlorine	mg/L	Turbidity	NTU
Total Chlorine	mg/L	Bactéria	cfu/ml
Fouling index (SDI)		Colour	
Alkanity (At)	°F	Odor	
Full alkanity (TAC)	°F	Taste	

<p style="text-align: center;">B A C T E R I O L O G I C A L A N A L Y S I S</p> <p>E. Coli / 100ml (E.C) Heat resistant Coliforms / 100ml Total Coliforms / 100ml Enterococcus / 100ml Aerobic bacteria revivable at 22°C / ml Aerobic bacteria revivable at 37°C / ml Fecal Streptococcus / 100ml Anaerobic bacteria spores sulfite-reducing / 50ml</p> <p>Comments:</p>		<p>BACTERIOLOGICAL ANALYSIS</p>		
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