

The following questionnaire is foreseen for well and surface waters (rivers, lakes, ponds ...) and helps us to establish what type of treatment modules have to be included in the station in order to provide you with the best suited solution according to existing conditions.

It is mandatory that the analysis must be carried out by competent persons and respect scrupulously the methods of sampling, the transport and analysis methods, as the resulting water quality will depend on it.

For toxics contained in the water and if it is not possible to do an exhaustive analysis by an approved laboratory, indicate whether there is a suspicion of their presence.

1. General Information

Project Name:	:		
Customer <small>(government dept., company name, owner)</small>	:		
Complete Address <small>(building #, street, town, country)</small>	:		
Leading contact person <small>(decider, signatory, chairman)</small>	:		
Telephone	:	Fax	:
Email	:		
Buying manager <small>(Finance, treasurer, signatory)</small>	:		
Telephone	:	Fax	:
Email	:		
Technical manager <small>(project manager, environment)</small>	:		
Telephone	:	Fax	:
Email	:		
Water analysis manager <small>(laboratory Eng.)</small>	:		
Telephone	:	Fax	:
Email	:		

Your request	<input type="checkbox"/> Further information on plant capabilities	<input type="checkbox"/> Budgetary quote for financial investment plan	<input type="checkbox"/> Detailed offer for coming project and purchase
---------------------	--	--	---

Expected purchase time frame	<input type="checkbox"/> Within the next 3 month	<input type="checkbox"/> Between 4 to 9 month	<input type="checkbox"/> This year for sure	<input type="checkbox"/> Project planning for next year
-------------------------------------	--	---	---	---

How did hear about us? :

2. TECHNICAL INFORMATION

2.1. Plant environment *(Please provide sketches or layout and pictures of area)*

Exact plant location Site

Site Name : _____ Town/Village : _____
 Closest city : _____
 District : _____ Country : _____
 GPS coordinates Long : _____ Lat : _____

Ground nature where the unit will be installed *(Add photography of area)*

Planned plant area l x h [m] : _____ Level above sea [m] : _____
 Ambient air temperature [°C] Min : _____ Max : _____
 Relative Humidity [%] Min : _____ Max : _____
 Max wind speed [km/h] : _____
 The *big* rain season From : _____ To : _____
 The *small* rain season From : _____ To : _____
 Rainfall measurement Yearly average [mm] : _____
 In rain period [mm] : _____
 In dry period [mm] : _____

Access to plant location by:

- Practicable track
- Road
- Track

Transportation capabilities

- Boat - closest commercial port :
- Air plane - closest commercial airport :
- Train - nearest active train station :
- Truck – safe company name :

2.2. Required plant capacity

Population size to serve: _____
 Production capacity in m³/day _____ in m³/h: _____ 8.2 378043/T.1 48 T

3. SCOPE OF SUPPLY

3.1. Type of plant:

- Containerized (open air installation)
- Skid mounted (indoor installation)
- Other, please specify : _____

3.2. Raw water pumping station:

- Reuse **existing** pump.
 Max. available water flow [m³/h] : _____
 available water pressure (min. / max.): _____ bar
 Pump description : Brand: _____ Type: _____ Model : _____
 Date of installation : _____
- Installation of pumping station
 pipeline length _____ m geodetic height _____ m

3.3. Treated water has to be delivery to:

- Existing storage tank
 distance from plant [m] _____ m. geodetic height _____ m.
- Existing network
 distance from plant _____ m geodetic height _____ m
 working pressure _____ bar

3.4. Storage tank required:

- Raw water, capacity [m³]: _____
 Type of construction: _____
 (Concrete, stainless steel, etc.)
- Treated water, capacity in m³: _____
 Type of construction: _____

4. Design requirements: Electrical and Control System

4.1. Power Supply (Required power supply: 400 VAC 50Hz max current 13A)

Available power supply: Voltage [V] : _____ Frequency [Hz] : _____
 Power [kW] : _____ Current Breaker [A]: _____

Power Generator Set required: yes no

4.2. Plant remote monitoring

- Unnecessary, done manually by trained and approved local technician
- Remote monitoring access, without alert services
- 24h/7Day full remote control service subscription with first failure alert and intervention

4.3. GSM / GPRS coverage

- > Mobile phone coverage exist on-site yes no
- > Mobile service provider : _____
- > GPRS service available: yes no

5. Other Components

- Spare Parts for _____ month of operation
- Operation chemicals for _____ month of operation
- Electrical and Mechanical Tools (*please specify*)
- Laboratory Equipment / Test-Kits and Laboratory Chemicals for _____ month

6. Special, Preferences

Please, describe any special requirements not mentioned in the questionnaire.

Water Analysis Data Sheet

Please fill this form with data's issued from a full analysis of the raw water and attach the original lab report.

Note: All parameters in **bold** are mandatory (*) Additional parameters required for well water

Source Water General Parameters							
Type of water (river, lake, well, ...)				Location and source			
Sample date				Sample Expedited on			
Analysis date				Analyzed by			
Temperature	°C	Min		Max		Year average	
River Depth	m	Min		Max		Year average	
Flow rate	m ³ /h	Min		Max		Year average	
Color				Taste / Odour			
Which water parameters are seasonal							
pH-Value		-		Electrical conductivity		µS/cm	
Turbidity		NTU		Dissolved Oxygen (*)		mg/l	
Total Suspended Solids		mg/l					

Alkalinity		Unit	Value	Hardness		Unit	Value
p-Alkalinity				Total Hardness (*)		°F	
m-Alkalinity				Carbonate Hardness			
Carbon Dioxide	CO ₂			Other			

(Use convenient unit: mg/l ; ppm ; meq/l ; ppmCaCO₃)

Cations		Unit	Value	Anions		Unit	Value
Calcium	Ca ²⁺			Bicarbonate	HCO ₃ ⁻		
Magnesium	Mg ²⁺			Chloride	Cl ⁻		
Sodium	Na ⁺			Sulfate	SO ₄ ⁻		
Potassium	K ⁺			Nitrate	NO ₃ ⁻		
Ammonium	NH ₄ ⁺			Nitrite	NO ₂ ⁻		
Total cations	c(eq)	----		Total anions	c(eq)	---	

(Use convenient unit: mg/l ; ppm ; meq/l ; ppmCaCO₃)

Iron, Manganese, Silica		Unit	Value			Unit	Value
Iron (*)	Fe	mg/l		Silica	SiO ₂	mg/l	
Manganese (*)	Mn ²⁺	mg/l		Hydrogen Sulfide (*)	H ₂ S	mg/l	
Organics							
Permanganate Index		mg/l O ₂		Chemical Oxygen Demand	COD	mg/l	
Total Organic Carbon (TOC/DOC)		mgC/l		Total dissolved salt		mg/l	

Toxic substances		Unit	Value			Unit	Value
Manganese (*)	Mn ²⁺	µg/l		Solvent		mg/l	
Arsenic	As	µg/l		Hydrocarbon / oil		mg/l	
Cadmium	Cd	µg/l		Lead	Pb	µg/l	
Chrome	Cr	µg/l		Mercury	Hg	µg/l	
Other				Selenium	Se	µg/l	

Note: All parameters in **bold** are mandatory (*) Additional parameters required for well water