

Site Identification Questionnaire

Introduction

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

It is mandatory that the analysis be carried out by competent persons and scrupulously in accordance with sampling, transport and analysis methods. 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 a competent laboratory, indicate whether there is a suspicion of their presence.

1. General information

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

Your request

Further information on plant capabilities
 Budgetary quote for financial investment plan
 Detailed offer for coming project and purchase

Expected purchase time frame

Within the next 3 month
 | Between 4 to 9 month
 This year for sure
 Project planning for next year

How did you 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 : _____
 Continuous Intermittent production period : _____ Emergency

2.3 Required treated water quality

- Drinking Water (WHO)
- Drinking Water (other requirement than WHO)
- Technical Water
- Process Water
- Pure / Ultrapure Water
- Other (please indicate)

2.4 Type of source water

- River Pond Well Lake Other : _____

2.5 Is there an upstream pollution risk potential? *(mine, factory, industry ...)*

- No Unknown Yes, describe activities : _____

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:

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. Others 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

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 HC03-		
Magnesium Mg ²⁺			Chloride Cl-		
Sodium Na+			Sulfate SO4-		
Potassium K+			Nitrate NO3-		
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		Hydrofen 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