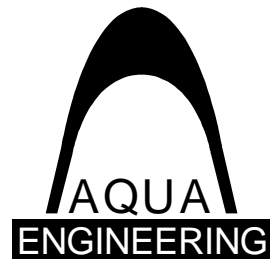


**QUESTIONNAIRE:  
WASTE WATER TREATMENT**



**WATER IS OUR LIFE**

**1. GENERAL INFORMATION**

Project name \_\_\_\_\_

Client: \_\_\_\_\_

Responsible Person \_\_\_\_\_

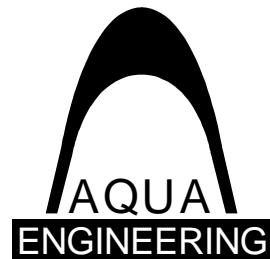
Address \_\_\_\_\_

Tel./Fax/E-mail \_\_\_\_\_

**Requested:**

- Further information / Contact of Representative
- Plant and process description
- Budget Quote
- Detailed Offer

# QUESTIONNAIRE: WASTE WATER TREATMENT



**WATER IS OUR LIFE**

## TECHNICAL INFORMATION

### 1.1 Plant location ( Town / District / Country )

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Level above sea (m)	Ambient temperature min./ max. (°C);
Relative humidity (%)	Max. wind speed (km/h)
Plant area (in m x m)	( please add sketch or layout )

### 1.2 Basic Data: Planning Capacity

	Actual	Planning
Population ( in Person)	P	P
Industrial ( in Population Equivalent)	PE	PE
Total	P + PE	P + PE

#### Sources of waste water:

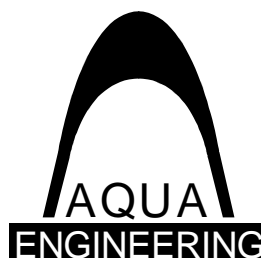
	Actual	Planning
Industry		
Agriculture (livestock)		

### 1.3 Waste Water inflow

Municipal waste water	m <sup>3</sup> /d	m <sup>3</sup> / h
Industrial waste water	m <sup>3</sup> /d	m <sup>3</sup> / h
Agricultural drain water	m <sup>3</sup> /d	m <sup>3</sup> / h
Specific waste water quantity	l / PE / d	

Sewer system:  separate  mixed

# QUESTIONNAIRE: WASTE WATER TREATMENT



**WATER IS OUR LIFE**

Rainwater quantity (for mixed sewer only) \_\_\_\_\_ m<sup>3</sup>/h \_\_\_\_\_ l/s

Additional fecal waste water:  no  yes: \_\_\_\_\_ m<sup>3</sup>/d

## 1.4 Waste Water Composition

pH-Value \_\_\_\_\_ Temperature \_\_\_\_\_ °C

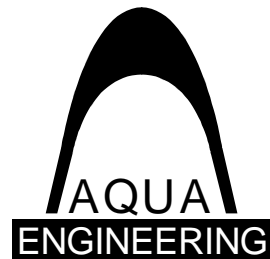
Parameter	Concentration	Daily amount
BOD5	_____ mg/l	_____ kg/d
COD	_____ mg/l	_____ kg/d
Dry Susp. Solids	_____ mg/l	_____ kg/d
Total Nitrogen	_____ mg/l	_____ kg/d
Total Phosphorous	_____ mg/l	_____ kg/d
Other	_____ mg/l	_____ kg/d

## 1.5 Required treated water quality:

Discharge to  Recipient ( River, Lake, sea)  Public sewer

Parameter	Concentration	Daily amount
BOD5	_____ mg/l	_____ kg/d
COD	_____ mg/l	_____ kg/d
Dry Susp. Solids	_____ mg/l	_____ kg/d
Total Nitrogen	_____ mg/l	_____ kg/d
- Ammonia-N	_____ mg/l	_____ kg/d
Total Phosphorous	_____ mg/l	_____ kg/d
Other	_____ mg/l	_____ kg/d

# QUESTIONNAIRE: WASTE WATER TREATMENT



**WATER IS OUR LIFE**

1.6 Sludge treatment     to be included                       not required / existing

Sludge utilization / disposal: (please indicate)

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**Preferences:** (please indicate)

Sludge prethickening	<input type="checkbox"/> static	<input type="checkbox"/> mechanical
Sludge stabilization	<input type="checkbox"/> aerobic	<input type="checkbox"/> anaerobic
Sludge dewatering	<input type="checkbox"/> Belt Screen	<input type="checkbox"/> Decanter
Sludge conditioning	<input type="checkbox"/> Polymer	<input type="checkbox"/> Iron / Lime
Sludge storage	_____ days	

## 2. **SCOPE OF SUPPLY**

2.1 Scope of Supply

Mechanical and electrical equipment     Turn-key package

2.2 Type of plant:

containerized (open air installation)     conventional  
 other \_\_\_\_\_

2.3 Raw water pump station (*please indicate*):

yes  
pipeline length \_\_\_\_\_ m                      geodetic height \_\_\_\_\_ m

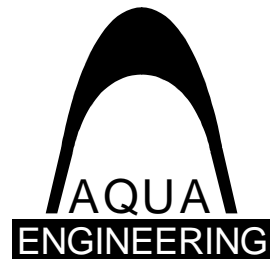
2.4 Pre-Treatment system: Coarse and Fine Screen, Sand and Grit chamber, ...

existing     to be offered

2.5 Discharge pipeline

pipeline length \_\_\_\_\_ m                      geodetic height \_\_\_\_\_ m

**QUESTIONNAIRE:  
WASTE WATER TREATMENT**



**WATER IS OUR LIFE**

**3. Design requirements: Electrical and Control System**

3.1 Power supply

Voltage ( V ) \_\_\_\_\_

Frequency (Hz) \_\_\_\_\_

Available Power (kW) \_\_\_\_\_

max. current (A) \_\_\_\_\_

Power Generator Set required:

yes

no

3.2 Process Control / Plant Automation

automatic (local)

automatic (Remote control, MODEM)

manual

**4. Other Components / Auxiliaries**

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

**5. Commercial**

Offer for financing requested:

yes

no

**6. Special, Preferences**

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

**Attachments:** (Available additional information)

Plant area layout, Existing facilities + short description, add. treated water requirements, ...