

Please return the completed questionnaire to us:

FlexBio Technologie GmbH  
 Otto-Hahn-Str. 7A  
 DE-37574 Einbeck, Germany

Tel.: +49(0)5561 980 90-10  
 Fax.: +49(0)5561 980 90-79  
 E-Mail: info@flexbio.de

**Biological compact sewage treatment plants for commercial wastewater treatment**

**Questionnaire**

Information about important project data

General Information					
<b>Company / Engineering Office:</b>	<input type="checkbox"/> Planning office <input type="checkbox"/> Commercial enterprise <input type="checkbox"/> General contractor <input type="checkbox"/> Investor  _____ Company name with legal form				
<b>Contact person:</b>	_____ Project manager (title, name, surname, position)				
<b>Address:</b>	_____ Street, house number, Zipcode, City				
<b>Telephone:</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">_____</td> <td style="width: 50%; padding: 2px;">_____</td> </tr> <tr> <td style="font-size: small;">Office</td> <td style="font-size: small;">Mobile phone</td> </tr> </table>	_____	_____	Office	Mobile phone
_____	_____				
Office	Mobile phone				
<b>E-Mail:</b>	_____				
<b>Send offer to:</b>	<input type="checkbox"/> to the above address <input type="checkbox"/> to the following address: _____ _____				
<b>Competent environmental authority: (Approval authority)</b>	Office title and location: _____ _____  Specialist (as far as known): _____				

Detailed information on current waste water situation	
<b>Current wastewater disposal / waste water treatment</b>	<input type="checkbox"/> Indirect discharge <input type="checkbox"/> Direct discharge <input type="checkbox"/> Disposal via specialist company <input type="checkbox"/> Other: _____
	<input type="checkbox"/> Operational wastewater pre-treatment <hr/> Type (mechanical / chemical treatment, neutralization) And year of construction
	<input type="checkbox"/> Operational wastewater treatment <hr/> Type and year of construction
	<input type="checkbox"/> Further information: <hr/> <hr/>
<b>Capacities of existing tanks</b> (Basins / Buffer / Storage tanks)	<input type="checkbox"/> yes                      number: _____ Total net-volume (V) = _____ m <sup>3</sup> <input type="checkbox"/> Further information: <hr/>
<b>Used additives?</b>	<input type="checkbox"/> Flocculant                      _____ <input type="checkbox"/> Neutralization                      _____ <input type="checkbox"/> Nutrients                      _____ <input type="checkbox"/> Other                      _____

<p><b>Discharge limit values:</b></p>	<p>                 _____ mg BOD<sub>5</sub>/l                      _____ mg P<sub>tot</sub>/l                  _____ mg COD/l                              _____ mg N<sub>tot</sub>/l                  _____ mg NH<sub>4</sub>-N/l                      _____ mg NO<sub>3</sub>/l                   Filterable substances : _____ mg/l                   pH-value: _____                   Max. permissible discharge quantity: _____ l/s                   Other infos: _____                   Minimum requirements according to the following local law :                  _____                  _____                  _____                  _____  <input type="checkbox"/> Disinfection required                      <input type="checkbox"/> Disinfection not required  <input type="checkbox"/> Disinfection with chlorine                      <input type="checkbox"/> Disinfection with UV / ozone             </p>
<p><b>Current costs of the wastewater treatment plant</b></p>	<p>                 Specific disposal / treatment costs: _____ €/m<sup>3</sup>                   Sewage fee: _____ €/m<sup>3</sup>                   Strong pollution fee: _____ €/m<sup>3</sup>                   Total annual costs: _____ €/a             </p>

<b>Waste water specific information</b>	
<b>Type of waste water</b>	<div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> commercial</span> <span><input type="checkbox"/> domestic</span> </div> <div style="margin-top: 5px;"> <input type="checkbox"/> mixed: _____% commercial _____% domestic                 </div> <hr/> <p><b>Sewage origin / industry :</b></p> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"><input type="checkbox"/> Food production</div> <div style="width: 50%;"><input type="checkbox"/> Beverage</div> <div style="width: 50%;"><input type="checkbox"/> Brewery</div> <div style="width: 50%;"><input type="checkbox"/> Distillery</div> <div style="width: 50%;"><input type="checkbox"/> Slaughterhouse</div> <div style="width: 50%;"><input type="checkbox"/> Meat processing</div> <div style="width: 50%;"><input type="checkbox"/> Fish processing</div> <div style="width: 50%;"><input type="checkbox"/> Milk processing</div> <div style="width: 50%;"><input type="checkbox"/> Dairy</div> <div style="width: 50%;"><input type="checkbox"/> Paper mill</div> <div style="width: 50%;"><input type="checkbox"/> Chemistry / Pharma</div> <div style="width: 50%;"><input type="checkbox"/> Waste management</div> <div style="width: 50%;"><input type="checkbox"/> Agriculture</div> <div style="width: 50%;"><input type="checkbox"/> Other industries: _____</div> </div> <div style="margin-top: 10px;">                 _____                  _____                  _____             </div> <p><b>Exact name of the wastewater source :</b>                  (eg. Production waste water from bottle cleaning, vegetable cleaning, rinse water etc.)</p> <div style="margin-top: 5px;">                 _____                  _____                  _____             </div>
<b>Current amount of wastewater</b>	<div style="margin-bottom: 10px;"> <input type="checkbox"/> Waste water (Qs) = _____ m<sup>3</sup>/d                 </div> <div style="margin-bottom: 10px;"> <input type="checkbox"/> Daily peak (Qf) = _____ m<sup>3</sup>/h = _____ l/s                 </div> <div style="margin-bottom: 10px;"> <input type="checkbox"/> Annual quantity = _____ m<sup>3</sup>/a                 </div> <hr/> <div style="margin-bottom: 10px;"> <input type="checkbox"/> Seasonal Variations                      in %: _____ Minimum m<sup>3</sup>/d: _____ Maximum m<sup>3</sup>/d _____                 </div> <div> <input type="checkbox"/> Daily fluctuations by e.g. shifts                 </div>

<p><b>Current wastewater pollution</b></p>	<p><input type="checkbox"/> COD = _____ mg/l    <input type="checkbox"/> COD-load = _____ kg CSB/d</p> <p><input type="checkbox"/> BOD<sub>5</sub> = _____ mg/l    <input type="checkbox"/> BOD<sub>5</sub>-load = _____ kg BOD<sub>5</sub>/d</p> <p><input type="checkbox"/> N<sub>tot</sub> = _____ mg/l    <input type="checkbox"/> N<sub>tot</sub>-load = _____ kg N<sub>tot</sub>/d</p> <p><input type="checkbox"/> P<sub>tot</sub> = _____ mg/l    <input type="checkbox"/> P<sub>tot</sub>-load = _____ kg P<sub>tot</sub>/d</p> <p><input type="checkbox"/> other relevant parameters: _____</p> <p>_____</p>
<p><b>Special ingredients important for wastewater treatment</b></p> <p>(e.g. Sand, grease, disinfectants, waste water from desalination, chemicals etc.)</p>	<p><input type="checkbox"/> yes, please consider the following:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p><input type="checkbox"/> No, nothing to consider</p>

<p style="text-align: center;"><b>Further information</b></p>	
<p><b>Further use of the purified wastewater:</b></p>	<p><input type="checkbox"/> Only discharge / disposal as explained.</p> <p><input type="checkbox"/> A subset of ___ m<sup>3</sup> should be used.</p> <p><input type="checkbox"/> Use as irrigation water for green areas.</p> <p><input type="checkbox"/> Disinfection of reused wastewater:</p> <p style="padding-left: 40px;"><input type="checkbox"/> required                      <input type="checkbox"/> not required</p> <p><input type="checkbox"/> Other usage: _____</p> <p>_____</p>

<b>Local receiving water body:</b> (discharge aim of the treated wastewater, as far as an indirect introduction into a public canal is not planned)	Type (Lake, River, Trench, etc.): _____ Name: _____ Water quality class: _____ Flow amounts: _____ m <sup>3</sup> /s Max. Inflow into the receiving water: _____ l/s
<b>Current energy consumption of the business</b>	Energy demand of the company Ø: _____ kW power consumption: _____ kWh/a
<b>Current energy consumption of wastewater treatment</b>	Specific energy consumption: _____ kWh/m <sup>3</sup> power consumption: _____ kWh/a
<b>Current energy supply</b>	<input type="checkbox"/> External purchase by local energy supplier <input type="checkbox"/> Own-energy generation <input type="checkbox"/> Electricity <input type="checkbox"/> Heat _____ CHP, PV, Hydropower, etc.

### Expected offer information

<b>Type of project realization</b>	<input type="checkbox"/> Own / local general contractor builds the wastewater treatment in cooperation with FlexBio. <input type="checkbox"/> Plant concept planning, detailed planning and delivery of wastewater treatment / technical equipment by FlexBio. <input type="checkbox"/> FlexBio must act as a general contractor and provide a complete turnkey plant. <input type="checkbox"/> Other realization request: _____ _____
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<b>Desired range of offers:</b>	<input type="checkbox"/> At first only concept proposal (plant idea) <input type="checkbox"/> Concept proposal with recommended price offer for planning and technical equipment <input type="checkbox"/> Binding, tendered offer <input type="checkbox"/> Other wish: _____ _____
<b>Preferred date for first meeting</b>	<input type="checkbox"/> Quick as possible <input type="checkbox"/> Until following date _____
<b>Realization chance</b>	<input type="checkbox"/> only variant study <input type="checkbox"/> concrete project <input type="checkbox"/> Realization year: _____
<b>Favored plant design / process engineering</b>	<input type="checkbox"/> Conventional plant engineering (conventional sewage treatment plant technology) is expected <input type="checkbox"/> FlexBio technology in a compact container design <input type="checkbox"/> FlexBio technology in reinforced concrete / metal construction (stationary) <input type="checkbox"/> No predefinition, an innovative FlexBio system technology is expected
<b>Desired offer language</b>	<input type="checkbox"/> German <input type="checkbox"/> English
<b>Other wishes and information</b>	_____ _____ _____

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(Place)

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(Date)

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