



## BSK<sup>®</sup>-Clear Water Decanters for SBR-WWTPs

### Questionnaire as Basis for a Quotation

#### 1. Basic Information

1.1	Project code   Project no.:		
1.2	Your name :		
1.3	Your company (name):		
1.4	Company address:	postal code	town
		street	
		country	
1.5	Your office phone number:		
1.6	Your mobile phone number:		
1.7	E-Mail-address:		
1.8	Other:		

#### 2. Detailed Project Information

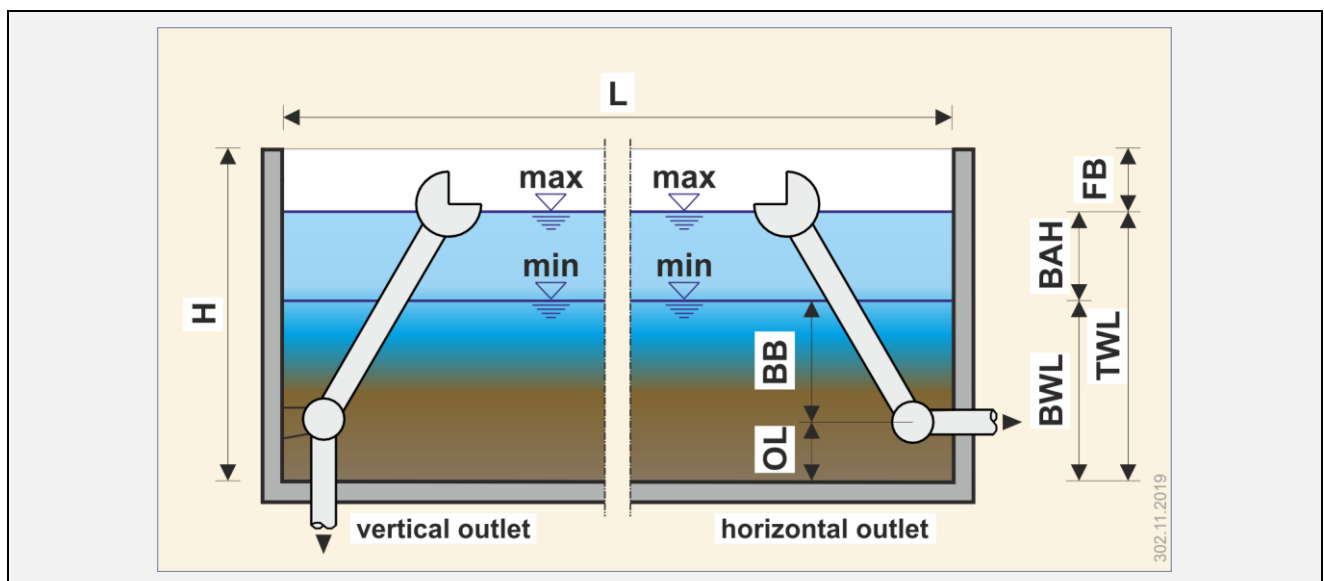
2.1	Project location:	country:	town:
2.2	Expansion or new construction?	<input type="checkbox"/> expansion	<input type="checkbox"/> new construction
2.3	Quantity of SB-Reactors:		each
2.4	Quantity of decanters per reactor:		each
2.5	Kind of reactor:	<input type="checkbox"/> circular	<input type="checkbox"/> rectangular
2.6	Imbedding of reactor below ground:		m



2.7	<b>Geometrical figures of the SB-Reactor(s):</b>	<input type="checkbox"/> diameter (circular tanks): m <input type="checkbox"/> length x width at rectangular/ square tank(s): <div style="text-align: right; margin-right: 20px;">x</div> m clear height of reactor: m
2.8	<b>Material of SB-Reactor:</b>	<input type="checkbox"/> concrete <input type="checkbox"/> precast concrete <input type="checkbox"/> glass coated steel <input type="checkbox"/> steel <input type="checkbox"/> others:
2.9	<b>Drawing of SB-Reactor / project:</b>	<input type="checkbox"/> attached <input type="checkbox"/> not available <input type="checkbox"/> freehand-sketch attached
2.10	<b>Covering of reactor:</b>	<input type="checkbox"/> without cover <input type="checkbox"/> with cover
2.11	<b>In case of cover: Kind of covering:</b>	<input type="checkbox"/> plastic dome <input type="checkbox"/> concrete floor <input type="checkbox"/> others:
2.12	<b>Hydraulic performance data:</b>	<input type="checkbox"/> discharge quantity/reactor: m <sup>3</sup> <input type="checkbox"/> decanting time: h <input type="checkbox"/> requested number of decanters/reactor: ea. <input type="checkbox"/> redundancy of decanters is required
2.13	<b>Special requirements with respect to the discharge hydraulic:</b> (recommendation: decreasing of discharge quantity)	<input type="checkbox"/> discharge quantity must be relatively constant <input type="checkbox"/> discharge quantity should decrease with increasing proximity to the sludge level (to avoid whirling up close to the sludge level) <input type="checkbox"/> max. allowed discharge quantity per reactor (by possible limits at the discharge side): m <sup>3</sup> /h



<p><b>2.14</b></p> <p><b>Maximum water level (“TWL”):</b></p> <p><b>Minimum water level (“BWL”):</b></p> <p><b>Distance of the effluent pipe above bottom of tank (“OL”):</b></p> <p>(Please see following illustration)</p>		m
		m
	<input type="checkbox"/> not less than	m
	<input type="checkbox"/> not more than	m
	<input type="checkbox"/> exactly	m
	<input type="checkbox"/> no preference	



<b>2.15</b>	<b>Direction of discharge pipe:</b>	<input type="checkbox"/> horizontally through the reactor wall <input type="checkbox"/> vertically downwards through the reactor bottom
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<b>2.16</b>	<b>Decanter-pipe end designed as:</b>	<input type="checkbox"/> DIN-flange <input type="checkbox"/> free pipe end with pipe coupling
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<b>2.17</b>	<b>Kind of outflow condition behind the decanter:</b>	<input type="checkbox"/> free discharge without counterpressure <input type="checkbox"/> discharge into a storage basin with max. back pressure above bottom of the reactor	m
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<b>2.18</b>	<b>Requested material for all parts of the decanter</b> (parts below water (wetted parts):	<input type="checkbox"/> stainless steel, 1.4301 (V2A) – AISI 304 <input type="checkbox"/> stainless steel, 1.4571 (V4A) – AISI 316 <input type="checkbox"/> special material request:
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2.19	<b>Ex-zone</b>	<input type="checkbox"/> yes, according to ATEX zone <input type="checkbox"/> no
2.20	<b>Available electrical supply:</b>	<input type="checkbox"/> 400 V / 50 Hz / 3 phases – or <input type="checkbox"/> special conditions:      Volt /      Hz
2.21	<b>Shadow temperatures (summer/winter) and humidity:</b>	<input type="checkbox"/> maximum summer temperature: +      °C <input type="checkbox"/> minimum winter temperature:      °C <input type="checkbox"/> low air humidity <input type="checkbox"/> high air humidity
2.22	<b>Specific requests for operation control (immersion- and operation control):</b>	<input type="checkbox"/> standard control with limit switches (winch) <input type="checkbox"/> immersion control with conductive sensor <input type="checkbox"/> immersion control with pressure sensor <input type="checkbox"/> sludge density control (turbidity sensor)
2.23	<b>Other requested equipment – individual requirements of our customer:</b> (if necessary, detailed requirements could be attached to this questionnaire)	



Example of a local switchbox for one BSK®-decanter. The cabinet could be produced by use of glass fiber reinforced plastic (GRP) or stainless steel. Moreover, the front side could be covered by a moveable door with glass-window (for protection of dust).



Example of a local stand-alone control system (plug and play), operating two (2) BSK®-decanters completely independent to the customer's PLC. This cabinet is equipped with a moveable cover with glass window. glass-window (for protection of dust).



<p><b>2.24</b></p>	<p><b>Electrical control of the decanting process:</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> a local control of the winch-operation is provided by our customer (based on information by Biogest International)</li> <li><input type="checkbox"/> a local switchbox for test-run shall be delivered by Biogest International</li> <li><input type="checkbox"/> a complete control panel including PLC and all necessary equipment for operating the decanter shall be delivered by Biogest International</li> <li><input type="checkbox"/> additional requirements or specific requests:</li> </ul>
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BSK®-decanting winch including drum, electrical drive and limit switchbox



Emergency limit switch to prevent uncontrolled lifting of the decanter



### 3. Additional Information and Specific Requests for our Quotation

3.1	<b>Project background:</b>	<input type="checkbox"/> only feasibility study <input type="checkbox"/> current project (shortly tendered) <input type="checkbox"/> already published public tender <input type="checkbox"/> already published private tender <input type="checkbox"/> project realization time frame (MM/YYYY):     /
3.2	<b>Individual background:</b>	<input type="checkbox"/> decanter for own needs (I am plant operator) <input type="checkbox"/> planning office (wants to include BSK®-decanter) <input type="checkbox"/> reseller (we are buying and selling for a concrete project) <input type="checkbox"/> others:
3.3	<b>Requested delivery time</b> (in case of order):	months after placement of the order
3.4	<b>Requested delivery term:</b> (Incoterms 2010)	<input type="checkbox"/> ex works (EXW) <input type="checkbox"/> free carrier <input type="checkbox"/> delivered at place (DAP) <input type="checkbox"/> free harbour (CIF) <input type="checkbox"/> name of harbour / delivery place
3.5	<b>Requested service performed by Biogest International:</b>	<input type="checkbox"/> only supervision of assembly (assembly by customer) <input type="checkbox"/> including complete assembly <input type="checkbox"/> start-up and training of local personnel



3.6	<b>Technical documentation:</b>	<input type="checkbox"/> German <input type="checkbox"/> English <input type="checkbox"/> French <input type="checkbox"/>
		<input type="checkbox"/> digitally via e-mail <input type="checkbox"/> printed            - fold
3.7	<b>Language of offer:</b>	<input type="checkbox"/> German <input type="checkbox"/> English <input type="checkbox"/>
3.8	<b>Required submittal date of quotation:</b>	<input type="checkbox"/> occasionally, not top-urgent, but latest at <input type="checkbox"/> asap, latest <input type="checkbox"/> Immediately!! We need the quotation until
3.9	<b>Additional documents to be added as attachment of the quotation:</b> <small>(please attach these documents to the offer)</small>	<input type="checkbox"/> info bulletin "BSK®-Decanter" <input type="checkbox"/> reference list <input type="checkbox"/> reference photographs <input type="checkbox"/>
3.10	<b>Attached documents / information to complete this questionnaire:</b>	<input type="checkbox"/> technical specification <input type="checkbox"/> extract of tender documents <input type="checkbox"/> project drawing(s) <input type="checkbox"/>
3.11	<b>Kind of delivery of the requested quotation:</b>	<input type="checkbox"/> by e-mail <input type="checkbox"/> by conventional mail <input type="checkbox"/>
3.12	<b>Responsible person for this questionnaire and address for quotation:</b>	name: direct dial: e-mail:

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 (Place)    (Date)