

## QUESTIONNAIRE - WASTEWATER TREATMENT PLANTS FOR INDUSTRIES (BASIC PROJECT INFORMATION)

1. Project code (name, catch-word etc.) .....
2. Country of realization: .....
3. Urgency of realization:
  - year .....
  - only project study
4. Kind and type of factory:
  - .....
  - .....
5. Waste water resulting from:
  - .....
  - .....
6. Typical characteristics of sewage flow:
  - 6.1 Daily quantity: ..... m<sup>3</sup>/d
  - 6.2 Hourly (peak) quantity: ..... m<sup>3</sup>/d
  - 6.3 Characteristics of sewage flow:
    - a) continuous flow  yes  no
    - b) periodical flow  yes  no
    - c) no flow during ..... to .....
7. Pollution and load figures:
  - 7.1 BOD<sub>5</sub>-load: ..... kg BOD<sub>5</sub>/d
  - 7.2 COD-load: ..... kg COD/d
  - 7.3 pH-range: from ..... to .....
  - 7.4 Total nitrogen (TKN): ..... kg N/d
  - 7.5 Total phosphorus (P<sub>Ges</sub>): ..... kg P/d
  - 7.6 Temperature: ..... °C
  - 7.7 Other pollution parameters:
    - a) ..... kg/d
    - b) ..... kg/d
    - c) ..... kg/d
    - d) ..... kg/d

**8. Requirements for waste water treatment:**

**8.1 Final concentration:**

- a) BOD<sub>5</sub> ..... mg/l
- b) COD ..... mg/l
- c) NH<sub>4</sub>-N ..... mg/l
- d) NO<sub>3</sub>-N ..... mg/l
- e) PO<sub>4</sub>-P ..... mg/l
- f) pH-value from ..... to .....
- g) others ..... mg/l
- ..... mg/l
- ..... mg/l
- ..... mg/l

**8.2 Disinfection required:**  yes  no

**8.3 Treated waste water discharge:**  
 to a public sewer  
 to a river

**9. Waste (excess) sludge treatment:**

**9.1 Direct discharge to the factory:**  yes  no

**9.2 Storage required:**  yes  no

**9.3 Dewatering necessary:**  yes  no

a) required dewatering concentration: ..... %

b) favourable kind of dewatering system:

- sludge drying beds  yes  no
- centrifuge  yes  no
- filter press  yes  no
- belt press  yes  no
- others .....

**10. Waste water inlet to the treatment station:**

**10.1 Pressure pipe from the factory:**  yes  no

**10.2 Free flow pipe from the factory:**  yes  no

- depth under ground level ..... m



- pumping station

- by the factory
- by the supplier

10.3 Equalization tank existing:

- volume of the tank
- location of the tank

- yes  no
- ..... m<sup>3</sup>
- .....

11. Information regarding the required offer:

11.1 Only budget offer:

- for the plant design
- for the technical equipment
- for the turn-key station
- for .....

- yes  no
- yes  no
- yes  no

11.2 Detailed binding offer:

- for the plant design
- for the technical equipment
- for the turn-key station
- for .....

- yes  no
- yes  no
- yes  no

11.3 Other requirements:

.....  
 .....

11.4 Offer required until:

.....

11.5 Responsible engineer of the factory:

.....

11.6 Offer to be addressed to:

.....  
 .....  
 .....

12. Final Confirmation:

The required offer will be used only as a basis to find a decision regarding the most suitable concept for the necessary wastewater-treatment-plant. It is confirmed, that the submitted offer from Biogest International GmbH will not be presented to any third party without the acceptance of Biogest International GmbH.

..... (place) ..... (date) ..... (name) ..... (signature)

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