A picture containing logo

Description automatically generated

# IMBR/MBR PROCESS QUESTIONNAIRE

Project Name: OEM: Engineering Company: End User: Project Country: Project Phase: Evaluation Tendering Bidding Job in Hand Other: Project type: New plant Capacity expansion Replacement of existing MBR

Expected start-up date of the project:

1. **Source** of feed flow:

Q1 Q2 Q3

Q4 year 20

Municipal

Commercial (public use)

Industrial  Type:

% of each source (in case of **mixed industrial** wastewater):

1. Is there an **existing** wastewater treatment system: Yes No
2. Is there mechanical / chemical **pretreatment** in placeupstream to MBR (please explain)?
3. Is there an equalization / **biological treatment** in placeupstream to MBR (please explain)?
4. Is there any **antifoam / chemical addition** in biological tank (if yes, please explain)?

# Hydraulic load to filtration step:

*Please give ONLY the values after equalization tank.*

* + Annual daily average flow, Q : m3/d

d

* + Hourly peak flow, Qh,max (dry weather, no mixture with rain water): m3/h
  + Hourly peak flow, Qh,max (wet weather, applicable for municipal STP with combined sewer system): m3/h
  + Maximum duration of **Peak** flow (per day and week): h/d d/w
  + Maximum duration of **Rain** flow (municipal mixed sewer): d/month d/year

|  |  |  |  |
| --- | --- | --- | --- |
| **Wastewater** temperature \* (°C): |  | | |
| * Minimum temp. Summer: |  | Minimum temp. Winter: |  |
| * Maximum temp. Summer: |  | Maximum temp. Winter: |  |

*\* If there is a table for long-term temperature regimen available, please attach it to your inquiry.*

1. Is there any **antifoam / chemical addition** in biological tank (if yes, please explain)?
2. The **composition of flow**: *(if a detailed water analysis is available in English, please attach it)*

# Parameter Value Unit Parameter Value Unit Other

**Unit**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| COD |  | mg/L | Suspended Solids (TSS | ) | mg/L | Units |
| BOD5 |  | mg/L | FOG – Free |  | mg/L | Units |
| Total Nitrogen |  | mg/L | FOG – Emulsified |  | mg/L | Units |
| Ammonia NH4-N |  | mg/L | Salinity (TDS) |  | mg/L | Units |
| Nitrate NO3-N |  | mg/L | Chloride (Cl-) |  | mg/L | Units |
| Phosphorus (as PO4-P) |  | mg/L | TOC |  | mg/L | Units |
| Alkalinity (as CaCO3) |  | mg/L | Conductivity |  | µS/cm | Units |
| Solvents\_Cationic |  | mg/L | Solvents\_Anionic |  | mg/L | Units |
| *Parameters* |  | *Units* | *Parameters* |  | *Units* | Units |
| *Parameters* |  | *Units* | *Parameters* |  | *Units* | Units |
| 1. Required **effluent quality**: | | | | | | |

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# Parameter Value Unit Parameter Value Unit Other

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| *Parameters* |  | *Units* | *Parameters* |  | *Units* | Units |
| *Parameters* |  | *Units* | *Parameters* |  | *Units* | Units |

|  |  |
| --- | --- |
| 1. The **aim of the filtration (use of permeate)**: | |
| Irrigation | Toilet flushing |
| Discharge to surface waters | Reuse in production |
| Pretreatment before RO | Other: |
| 1. Further **details / tender specifications**: | |
| * Are there any **existing plans and drawings** (P&ID, GA, etc.) of this plant? If yes, please attach. | |
| * Main equipment (pumps, blowers, membrane, diffusers **required standard**:   Standard Premium (international – low energy consumption) | |
| * Automation, Instrumentation & monitoring **required standard:**   Standard Premium (transmitters, Process automation, Remote monitoring) | |
| * Construction **required standard:**  Above ground Underground Partial Underground * Available area m2 ft2 | |
| * Additional Information: |  |

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