



QUESTIONNAIRE AERATION SYSTEM

EKOTON Industrial group

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CUSTOMER'S INFORMATION:

Company name:

Address of the company:

Contact person: Position:

(First name, Family name)

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AERATION SYSTEM

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1. Aeration (nitrification) zone:

Lengthm Widthm Working water depth (by water) m
Number of corridorsm Width of the corridorm

2. The existing aeration system:

2.1 Air supply manifolds in the aeration zone

The amount: in all..... in the corridors: 1..... 2.....3.....4..... diametermm

2.2 Type of aeration elements

.....

2.3 The amount of branches of aeration systems in the corridors:

1..... 2..... 3..... 4.....other

3. The characteristic of inflow wastewater fed into aeration zone

Peakflow, m³/day BOD(full),mg/l..... COD,mgO/l.....

Ammonia nitrogen (Nh₄), mg/l (ppm) Temperature, C

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4. Recycling rate of the activated sludge:

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5. Air consumption for the aeration zone, m³/h :

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6. Air supply system:

Blower (supercharger)model..... Number of units (on duty/stand by)...../..... Power,kW.....

Type of air intake filter Head m Number of units

The size of the air intake hole at the filter, B*H, mm

7. Consumption of influent wastewater to the treatment plant,m³ /day

Fact

Plan

8. Composition of wastewater, incoming to the treatment (average per year):

Indicators	Units of measurement	Incoming to the treatment plant	After the primary clarifier	After the bioreactor	Required parametres
		Fact	Fact	Fact	
Suspended solids	mg/l				
COD	mgO ₂ /l				
BOD ₅	mgO ₂ /l				
BOD _{full}	mgO ₂ /l				
Total salt content	mg/l				
Total nitrogen	mg/l				
Phosphorus	mg/l				
Surface substance	mg/l				

9. The presence of specific contaminants

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10. Wastewater temperature in the summer (july-august), C

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AERATION SYSTEMS

11. Characteristics of wastewater sludge:

	Amount in a day	Moisture	Ash content
Raw sludge			
Excess activated sludge			

12. Characteristics of water treatment plants

Primary clarifiers

Type	Dimensions, L*B*H, diameter, m	The depth of the sludge	Number	On duty/Stand by

Aerotanks

Type	Number of sections, (blocks)	Number of aerotanks in the section (blocks)	Dimensions of the aerotank L*B*H, m	Number of corridors	On duty/stand by of aerotanks

Primary clarifiers

Type	Dimensions, L*B*H, diameter, m	The depth of the sludge	Number	On duty/Stand by

Aerobic stabilizer

Type	Dimensions, L*B*H, m	Diameter, m	Amount of	Stabilization time	Sludge

Aeration system

13. Characteristics of the sludge dewatering buildings

Concentration tank:

Type	Dimensions, L*B*H	Diameter, m	Amount in all	On duty/Stand by

Sludge beds:

The amount of cards, units Dimensions of the cards (L*B*H), m

Cover type

Draining type

Way of recycling or burial sludge

Mechanical dewatering:

Equipment type (model)

Amount of Producer..... Power of electric motor, kW.....

Moisture of the cake BOD of filtrate

Customer:

Date: