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utilization of bird droppings BIOKOM-1000

ОБОРУДОВАНИЕ И СООРУЖЕНИЯ ИЗ КОМПОЗИТНЫХ МАТЕРИАЛОВ

The biocomplex consists of 8 modular anaerobic reactors AP-100 of horizontal design (94 m^3 each) with the following main and auxiliary systems, provides:

- processing of organic waste on the basis of bird droppings and peat (share of litter from 50% and above) in the amount of 60 tons / day. humidity 75%,

- Disinfection of organic waste,

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- development of organic effluent for the production of organic fertilizers in the amount of 15 tons / day (humidity 10%),

- production of biogas in the volume of 1,000 m3 / day.

BIOKOM-1000 is performed in two variants: "Oktorin" and "Electro":

The "**Oktorin**" option provides the use of organic effluent for the production of highly effective organic fertilizer "**OKTORIN**".

The "**Electro**" option provides priority generation of electricity due to the complete processing of the resulting organic effluent in the combustion process at the EC 1000 Station.

Nº	Indicator	Measurement unit	BIOKOM-1000 «Oktorin»	BIOKOM- 1000 «Electro»
1.	Processing of organic waste based on bird droppings (humidity 75%)	Ton/day	60	60
2.	Production of effluent (humidity 10%)	Ton/day	15	15
3.	Production of biogas (methane content over 60%)	m ³ /day	1 000	1 000
5.	Generation of electricity, total	KWh · h	70	120
	Of these - for technological needs (max - in winter)	KWh · h	15,5	25,5
6.	Generation of thermal energy	Gcal / hour	0,077	0,5
	Of these - for technological needs (max - in winter)	Gcal / hour	0,01	0,075
7.	Production of organic fertilizers	Ton/day	15	-

Performance indicators for biocomplex variants

Equipment that is part of BIOKOM:

Технологический процесс биологического обеззараживания органических



N⁰	Contents of delivery	Notes
1	8 reactors AP-100, including systems:1) compensation of heat losses (heating)	An alternative option is the construction of a vertical tank AP-1000 (costs are higher by 15%). It is realized at a site of small sizes
	2) mixing,	
	3) loading and unloading	
2	Automated control system (with a set of sensors)	ACS of the block-modular design, provides process control on 16 parameters, remote monitoring and control
3	Substrate preparation system (including ultrasonic treatment)	Includes ultrasound processing equipment for slabs, prepackages and loading systems
4	Separators, screw	Ensuring separation of effluent into dry and liquid fractions
5	Biogas storage system (gasholders, shelter for storage)	Shelter from wind and precipitation from metal structures with gasholders and fire and gas safety system

6	Station for generating electricity and	A set of equipment for generating	
	heat from the effluent is EC-1000 (for	electrical energy during the	
	the "Electro" version)	combustion of effluent	
7	The system for generating electricity	It is placed in block-modules	
<i>'</i>	and heat on biogas, including:	It is placed in block-modules	
	and near on ologas, meruding.		
	1) electric and thermal generator on		
	biogas, electric boiler		
	2) warm block-module with all types		
	of protection		
	3) pre-treatment of biogas from		
	hydrogen sulfide and CO2, drying of		
	biogas		
	4) gas explosion-proof compressor		
	5) automatic protection system		
	6) PIC		
	0)110		
	7) Methane analyzer in biogas		
9	System for drying the effluent SBTT-	Drying is necessary to prepare the	
	1000 station (for the "Electro"	effluent up to 10% moisture for	
	version)	incineration on the EC-1000	
10	Consumables for installation (pipes,	Connecting elements, engineering	
	fittings, cables, etc.)	networks according to the project	

Works and services in project implementation

- 1. Inspection and development of technological regimes
- 2. Designing of construction
- 3. Installation work
- 4. Start-up and adjustment works
- 5. Training

6. Laboratory analyzes according to the technology - substrates, effluent, organic fertilizer

7. Service of technology, remote control of parameters, control of modes

Terms of designing and development of bio-disinfection technology:

Design of the complex with reference to the place	45 days
Development of bio-disinfection technology	45 days

Terms of manufacture and delivery of equipment:

Manufacturing

Delivery Chef-installation start-up and adjustment of equipment	14 days 60 days
Total:	240 days
Guarantee:	

For a period of 12 months.

Appendix: 1. Characteristics of BIOKOM technology 2. BIOKOM product line

Director of LLC "Gildia M"

I.A. Burdin