

Technical and commercial proposal for the supply of biocomplex for utilization of organic waste BИOKOM-25.

Biocomplex BИOKOM-25 is designed for processing of various organic wastes of agricultural production and food industry to:

- obtain energy resources (biogas, electric and thermal energy);
- obtaining environmentally friendly organic fertilizers;
- dispose of waste.

Biocomplex BИOCOM-25 provides decontamination of organic waste in the amount of 1 ton per day (85% moisture), production of organic effluent for the production of organic fertilizers in the amount of 0.5 tons / day (humidity 50%), as well as biogas in the volume of 40 m³ / day.

Biocomplex performance metrics

№	Indicator	Measurement unit	BИOKOM-25 "Oktorin"
1.	Processing of organic waste (humidity 85%)	Ton/day	1
2.	Production of effluent (humidity 50%)	Ton/day	0,5
3.	Production of biogas (methane content over 60%)	m3/day	40
4.	Generation of electrical energy, total	KWh * h	3,0
	Of these - for technological needs (max - in winter)	KWh * h	0,4
5.	Generation of thermal energy	Gcal per hour	0,005
	Of these - for technological needs (max - in winter)	Gcal per hour	0,001
6.	Production of organic fertilizer "OKTORIN"	Ton/day	0,5

Equipment included in the BИOKOM:

	Contents of delivery	Cost, in US\$

№		
1	Anaerobic reactor AP-25 - 1 pc., Including systems: 1) compensation of heat losses (heating) 2) mixing, 3) loading and unloading	47 000
2	Automated control system (with a set of sensors) 1 level	8 180
3	Substrate preparation system (including ultrasonic treatment)	4 950
4	Separator auger SEP-45 1 piece	8 000
5	Biogas storage system (gasholder, shelter for storage)	12 600
6	The system for generating electricity and heat on biogas, including: 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 CO ₂ , drying of biogas 4) gas explosion-proof compressor 5) automatic protection system 6) PIC	23 800
7	Consumables for installation (pipes, fittings, cables, etc.).	4 900
«Oktorin» package		109 430
Additional works and services		
	Examination	1 700
	Design	5 000
	Installation of equipment	8 400
	Training, commissioning and adjustment of equipment	6 700
	Service of technology, remote control of parameters, control of modes	250

* - to be specified when concluding a contract

Commercial terms

Terms of designing and development of bio-disinfection technology:

II Design of the complex with reference to the place	30 days
Development of bio-disinfection technology	30 days

Terms of manufacture and delivery of equipment:

Production	60 days
Delivery	15 days
Chef-installation start-up and adjustment of equipment	30 days
Total:	135 days

Timing may vary depending on the state of loading of the manufacturer at the time of placing the order and timely payment.

Guarantee:

For a period of 12 months.

Appendix: BIODKOM-25 installation scheme