

Questionnaire № _____

to select a gas and emissions treatment unit

SAFECAT

1.	Emission parameters				
1.1.	Name of the company				
1.2.	Postal address				
1.3.	Phone/fax				
1.4.	Name of contact person, position				
1.5.	E-mail				
2.	Technological process information				
2.1.	Device (process, room) that emits harmful substances				
2.2.	Brief description of the process with specifying of emission sources				
3.	Emission parameters				
	Parameter	Dimension	Value		
			min.	max.	Operating value
3.1.	Flow volume (n.c.)	m ³ /h			
3.2.	Temperature	°C			
3.3.	Pressure (vacuum)				
3.4.	Additional information				
3.5.	Flow fluctuations 1.5 times or more	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> no data available	
3.6.	Temperature fluctuations of 50 °C or more	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> no data available	
3.7.	Concentration fluctuations of 2 or more	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> no data available	
4.	Emissions information				
4.1.	Emissions Composition	Provide as much information as possible on the quantitative composition of emissions (if instrumental measurement protocols are available, project calculations of emissions generation should be attached to the questionnaire)			
4.2.	Additional information on the composition of emissions (to be completed in case of incomplete or missing information on the composition of emissions)				
4.3.	Main component of emissions	<input type="checkbox"/> воздух	<input type="checkbox"/> азот	<input type="checkbox"/> другое	
4.4.	Gases and vapours of organic compounds	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> no data available	
4.5.	Gases and vapours of inorganic compounds	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> no data available	
4.6.	Resins and condensable substances	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> no data available	
4.7.	Aerosols	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> no data available	
4.8.	Dust, fibers	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> no data available	
4.9.	Sulphur compounds	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> no data available	
4.10.	Halogen compounds (F, Cl, Br, I)	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> no data available	
4.11.	Silicon compounds	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> no data available	
4.12.	Connections P, As, B, Pb, Hg	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> no data available	
4.13.	Large quantities of water vapour	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> no data available	
5.	Equipment requirements				
5.1.	Operating mode (hours, days)	<input type="checkbox"/> 8/5		<input type="checkbox"/> 16/5	
		<input type="checkbox"/> 24/7		<input type="checkbox"/> other	

5.2.	The preferred method of treatment	<input type="checkbox"/> thermal oxidation <input type="checkbox"/> catalytic oxidation <input type="checkbox"/> Physical and chemical methods (neutralization, sorption) <input type="checkbox"/> complex processing			
5.3.	Explosion protection requirements	<input type="checkbox"/> yes		<input type="checkbox"/> no	
5.4.	Explosion protection class	For example, Ex d IIC T3			
6.	Placement requirements				
6.1.	Equipment layout	<input type="checkbox"/> outdoors		<input type="checkbox"/> under a canopy	
		<input type="checkbox"/> in an actual facility		<input type="checkbox"/> in a new facility	
		<input type="checkbox"/> other			
		specify size limits (if any):			
6.2.	Ambient temperature, °C	мин.	макс.	рабочая	
6.3.	Zone class according to PUE or GOST				
6.4.	Placement on the territory of a hazardous production facility (HPF)	<input type="checkbox"/> yes		<input type="checkbox"/> no	
		116-FZ HPF class.	<input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV		
7.	Process parameters requirements				
7.1.	Output gases maximum temperature, °C				
7.2.	Allowable pressure difference at the plant, Pa				
7.3.	Allowable residual contaminant content at the outlet of the plant (individual for each substance), or regulatory compliance				
8.	Electrical power requirements				
8.1.	Voltage, number of phases, frequency	<input type="checkbox"/> 380V, 3F, 50Hz		<input type="checkbox"/> 380V, 3F, 60Hz	
		<input type="checkbox"/> 400V, 3F, 50Hz		<input type="checkbox"/> other	
9.	Equipment Options				
9.1.	Recovery of heat energy to produce	<input type="checkbox"/> hot water		<input type="checkbox"/> water vapour	
		<input type="checkbox"/> electricity		<input type="checkbox"/> other	
9.2.	Mobility	<input type="checkbox"/> yes		<input type="checkbox"/> no	
9.3.	Other				
10.	Infrastructure information				
10.1.	Draught system, that will operate in line with the decontamination unit	<input type="checkbox"/> in stock		<input type="checkbox"/> no	
		Type		Quantity, pcs.	
		Pressure, kPa.		Flow rate, m³/h	
		Power, kW		Rotational speed, rpm	
10.2.	Extraction unit (chimney stack, flare)	<input type="checkbox"/> in stock		<input type="checkbox"/> no	
		Diameter, m.		Height, m.	
		Material	liner availability	<input type="checkbox"/> yes <input type="checkbox"/> no	
10.3.	Energy resources available	Diesel		l/h	
		Natural gas		m³/h	
		Electricity		kW	
		Water vapour	flow rate	kg/h	
			pressure	MPa	
temperature	°C				
Other					

11.	Required scope of work	<input type="checkbox"/> Examination	<input type="checkbox"/> Design <input type="checkbox"/> PD <input type="checkbox"/> WD <input type="checkbox"/> Basic engineering <input type="checkbox"/> Other _____
		<input type="checkbox"/> Manufacture of equipment	
		<input type="checkbox"/> Installation	
		<input type="checkbox"/> Commissioning and start-up	
		<input type="checkbox"/> Service	
12.	planned operation period		
13.	Information on available purification facility	Specify the manufacturer, purification technology, and complaints	
14.	Additional information		
15.	Appendices	situational plan, equipment location plans, measurement protocols, schemes, Information on concentrations of pollutants in the area of the enterprise location, on the SPZ of the plant, established MPE standards for the existing emission source, etc.	

Head of the organization, full name

Signature

Date