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***Technical Assistance for Strengthening the
Capacity of the Ministry of Environment in Albania
for Law Drafting and Enforcement of National
Environmental Legislation***

(EuropeAid/I30987/C/SER/AL)

**Environmental Permit Application
Type A**

Activity C.3

Final Document



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Title: **Environmental Permit Application – Type A**

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This report has been prepared by a project team working for Grontmij. The findings, conclusions and interpretations expressed in this document are those of Grontmij alone and should not in any way be taken to reflect the opinions and policies of the European Commission.



REPUBLIC OF ALBANIA
MINISTRY OF ENVIRONMENT
NATIONAL ENVIRONMENTAL AGENCY

No. ____ Prot.

Date _____

Environmental Permit Application Type A

NATIONAL ENVIRONMENTAL AGENCY

Application ID Number _____

Name of Operator:

a) Legal Person (Company) (Trade Name, No. of NIPT, Address) _____

or

b) Natural Person (Name, Surname, No. of NIPT, Address) _____

For the plant/installation:

1. Title of the plant/installation (describe according to column 1 of Annex 1 of the Law. No. 10448, dated 14.7.2011 "On the Environmental Permits" _____
2. Description of the activity and capacity (describe according to column 1 and 2 of Annex 1 of the Law. No. 10448, dated 14.7.2011 "On the Environmental Permits", _____
3. Location _____

Qark/Municipality/Comune _____

Name, title of authorized person _____

(Signature, Official stamp)

Date _____

Administrative fee paid on (date) _____

- Application for environmental permit
 Changes of permit conditions

1 INFORMATION ON APPLICANT/OPERATOR

1.1 GENERAL INFORMATION

Company name	
Legal status	
Partners/Shareholders of Company (according to the Extract issued by National Licensing Centre)	
Company head office address	
Company postal address, if different	
Company registration number (NIPT)	
Principal activity code (according to column 1 of the Annex 1 of the Law. No. 10448, dated 14.7.2011 "On the Environmental Permits")	
SNAP Code ¹	
NOSE-P Code ²	
Number of employees	
Authorized representative	
Name and surname	
Position in the company	
Telephone	
Fax	
E-mail	

1.2 INFORMATION ON INSTALLATION/PLANT

Plant/installation title/name ³	
Address at which plant or facility is situated or will be situated	
Coordinates of the site according to Gauss–Krüger Coordinate System: 1942_GK_ZONE_4	
Categories of industrial activities that are subject to application ⁴	
Projected capacity	

The following table includes the list of all permits obtained at the date of submission of application.

¹ Selected nomenclature for sources of air pollution, specified in Annex 1 of the Environmental Permit Application Guideline for applicants

² Nomenclature for sources of emission, specified in Annex 1 of the Environmental Permit Application Guideline for applicants

³ Refers to the title/name of installation according to the column 1 of the Annex 1 to the Environmental Permitting Law

⁴ Enter codes and activities specified in Annex 1 to the Environmental Permitting Law. If the installation involves several IPPC-related activities, it is necessary to mark each of them with a code. Codes should be visibly separated.

Permit	Ref No.	Date of Issuance	Period of validity

All the permits, valid at the date of submission of application, are to be included.

1.3 INFORMATION ON AUTHORIZED CONTACT PERSON WITH REGARDS TO PERMIT

Name and surname	
Address	
Position in the company	
Telephone	
Fax	
E-mail	

1.4 LAND OWNERSHIP

Name/address of the owner/owners of land, property identification number according to the document released by IPRO⁵ where are taken (if differ from those of applicant) or will be taken, the activities (if differ from those of applicant).

Name and surname of owner/s	
Data on land ownership according to the document released by IPRO	
Address:	
Information on the lease contract if available No. of the lease contract if the applicant doesn't own the land at this point	

1.5 FACILITY OWNERSHIP

⁵ Zyra e Regjistrimit te Pasurive te Paluajtshme

Name and address of the owner of facility in which the activity is carried out, as well as the information on contract of lease if the applicant is not the owner of the facility

Name and surname of the owner	
Address	
Information on the contract (leser and borrower, term of contract, ways of contract termination, validity of contract): Attach a copy of the leasing contract	

1.6 APPLICATION PERTAINS TO⁶

Tick the corresponding box ✓

- New plants and installations
- Existing plants and installations
- Considerable modification to existing plants and installations
- Cessation of activities

In order to assess future cumulative effects or adverse impact to future activities, an extract from planning documents pertaining to the area concerned shall be submitted in Annex 1 for new installation/plant, including a legend indicating the intended purpose for the wider area and the intended purpose for the location concerned.

⁶This application does not refer to the transfer of license in the event of change of ownership

1.7 INFORMATION REGARDING PROPOSED ESSENTIAL CHANGES/, OF THE TYPE A PERMIT FOR AN EXISTING INSTALLATION/PLANT

The operator/applicant fills in the following table only when seeks changes/modifications of the environmental conditions of permit Type A, for an existing installation.

Name/title of plant (according to the existing environmental permit)	
Date of submission of application for changes/modifications of the issued environmental permit of Type A	
Date of issuance of the Type A environmental permit (refer the identification number of the permit according to the Register of NEA)	
Plant/ installation location (qark, municipality, commune, cadastral number)	
Reason/s for requested change to environmental permit	

Description of proposed changes

All other relevant information and documents supporting your statements related to this chapter such as: cadastre map, other maps, proprietary list etc. should be included as an attachment with a title **Annex 1**.

2 DESCRIPTION OF THE INSTALLATION, ITS TECHNICAL UNITS AND DIRECTLY RELATED ACTIVITIES

Describe the installation, methods, processes, auxiliary processes, pollution reduction and waste recovery systems and operations of the installation. Provide the copies of plans, sketches or maps (terrain plans, and site maps, technological process flows related to the operations of installation) and other details necessary to describe all aspects of the installation activities.

Please, include the overview of process development.

The information should be included as **Annex 2**.

3 INSTALLATION MANAGEMENT

Indicate details regarding installation management structure. Provide organizational chart with the positions pertaining to environmental management, production management, quality control, monitoring etc. clearly indicated. Provide all the relevant documents regarding environmental management policy.

Indicate whether environmental management and/or quality management systems are certified by certifying accredited bodies.

In case there is a certified installation environmental management system in place, indicate the relevant standard, and provide the copy of accreditation certificate (ECOLABEL, EMAS, ISO 14001, etc.).

Describe working conditions, as indicated in the following table:

WORKING CONDITIONS					
Total number of employees					
Distribution of employees	OFFICE	PRODUCTION	MAINTENANCE	STORAGE	OTHER
Shifts and activities	Offices/administration		Installations		
Working hours	Offices/administration		Installations		
Number of work days per annum					
Number of hours per annum					
Seasonal variations					
Shifts and number of workers per shift	During seasonal variations		Rest of the year		
Periods during which company is closed	Holidays				
	Regular cessation of operation				

This information should be included in **Annex 3**.

4 RAW AND AUXILIARY MATERIALS, OTHER MATERIALS AND ENERGY USED OR GENERATED IN PLANT/INSTALLATION

Compile a list of raw and auxiliary materials, mixtures, fuel, and energy produced or used in an installation.

The compiled list has to be entirely comprehensive and has to include all materials, fuels, intermediate materials, laboratory chemicals and products.

Special attention should be paid to materials and products that consist of or contain hazardous substances. The list must specify the designated **Risk Phrases** of each substance according to the producers Material Safety Data Sheet (MSDS).

Tables 4.1.1 - 4.1.4 must be completed.

Additional information is to be provided as **Annex 4**.

Table 4.1.1 Details on raw materials, intermediate materials, products, etc., which are related to the processes, and used or generated at the site.

Ref. No. or code	Material/ Substance ⁷	CAS ⁸ Number	Hazard category ⁹	Amount usually in storage (t)	Annual use (t)	Consumption per unit of product	Nature of use	R ¹⁰ - Phrase	S ¹¹ - Phrase

⁷ If materials include more hazardous substances, specify details on each substance

⁸ Chemical Abstracts Service

⁹ (EC 1272/2008 Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) or Hazard category according to Regulation on Waste Categories including the lists according to relevant Albanian legislation on waste

¹⁰ According to Annex 2 to the Environmental Permit Application Guideline for applicants

¹⁵ According to Annex 2 to the Environmental Permit Application Guideline for applicants

Table 4.1.2 Details on raw materials, intermediate materials, products, etc. related to the processes, and used or generated at the site

Ref. No. or code	Material/ Substance ⁽⁹⁾	Odour			Priority substances ¹²
		Odour Yes/No	Description	Sensitivity threshold $\mu\text{g}/\text{m}^3$	

Table 4.1.3 Details on Water consumption:

INPUT									
Public water supply		Surface water abstraction		Own source		Collected precipitation		Internal recycling	
Consumption	%	Consumption	%	Consumption	%	Consumption	%	Consumption	%

PREVIOUS TREATMENT (enter the amount of water previously treated in order to improve the quality before its consumption within the process)

CONSUMPTION POINTS											
Toilet/bathroom		Production processes		Production of energy/steam		Cooling water		Industrial cleaning		Other cleaning	
Consumption	%	Consumption	%	Consumption	%	Consumption	%	Consumption	%	Consumption	%

¹² List of priority substances harmonised with the lists in Albanian legislation on Hazardous and Noxious Substances in Waters

OUTPUT		
Integral part of the product, by-products, waste	Discharged (Own treatment equipment/ recipient/ sewer)	Evaporation (steam emissions into air)

WATER COSTS			
ITEM	BASE (m ³ /year)	KM/m3*	TOTAL
Water costs			
TOTAL			

* Water costs: consumed amount + fixed fee.

Table 4.1.4 Details on Energy consumption

ENERGY CONSUMPTION			
Resource	Total consumption (kWH/g, t/g, and the like)	Consumption by production unit	Percentage of total consumption (%)
Electricity			
Natural gas			
Coal			
Fuel oil			
Other			

5 MATERIALS HANDLING

5.1 HANDLING RAW MATERIALS, INTERMEDIARIES AND PRODUCTS

For all materials indicated in tables 4.1.1 and 4.1.2, indicate details on the conditions regarding delivery and receipt, storage conditions (storage location within the installation and plant site, storing method), and the transport/transfer system within the installation and plant site.

Provide information on integrity non-permeability and final testing of pipe line, reservoirs, bunds, etc. For new installations, provide control plan.

Include additional information in **Annex 4**

5.2 SOLID AND LIQUID WASTE MANAGEMENT IN INSTALLATION/PLANT

Provide detailed information for each waste material, as follows:

- a) Name;
- b) Description and nature of waste;
- c) Source;
- d) Where it is stored and storage space characteristics;
- e) Quantity/volume in tons and m³;
- f) Period(s) of generation;
- g) Analyses (including testing and quality assurance methods);
- h) Code according to waste lists from Albanian legislation on Waste Categories.

In the case when particular waste exhibits characteristics of a hazardous waste, it is to be clearly indicated in the information in line with the definition of hazardous waste in the Albanian Law on Integrated Waste Management. Tables 5.2.1 and 5.2.2 should be completed, for each typology of waste, respectively hazardous and non-hazardous waste in appropriate table. Details on registration number of the operator's waste collection license/permit should be provided as well as details on the operator for waste disposal/recovery with whom the contract has been concluded or the date of expiry of permits.

Additional information should be included as **Annex 5**

In case of disposal¹³ within installation/plant, detailed information on disposal site should be provided (including, among other things, procedures involving selection of site, maps of the site with clearly indicated protected water zones, geology, hydrology, activity plan, waste composition, gas management and filtered water, together with the waste management plan following the cessation of operations at the site).

Complete design of the landfill should be included in **Annex 5**

¹³ According to the definition of law on the integrated management of waste

Table 5.2.1: Waste – Recovery/disposal of hazardous waste

Type of waste	The number from the Regulation on the Waste Categories, including the lists	Primary site of generation	Quantity		Treatment or disposal on the site (Method and location)	Treatment, recovery or recycling , off site (Method, site, contractor)	Disposal/treatment off site (Method, site, contractor)
			Ton/month	m ³ / month			

Table 5.2.2 Waste-Recovery/disposal of non-hazardous waste

Waste material	The number from the Regulation on the Waste Categories, including the lists	Primary site of generation	Quantity		Treatment or disposal on the site (Method and location)	Treatment, recovery or recycling , off site (Method, site, contractor)	Disposal/treatment off site (Method, site, contractor)
			Ton/month	m ³ /month			

5.3 OFF SITE WASTE DISPOSAL

In case of waste disposal outside the plant/installation premises, it is necessary to provide detailed information on disposal site and enclose appropriate contracts made with the companies which receive and transport all types of waste.

Additional information should be included in **Annex 5**

6 EMISSIONS

6.1 EMISSIONS TO ATMOSPHERE

6.1.1 DETAILS ON EMISSIONS FROM POINT SOURCES TO ATMOSPHERE

A list of all sources of emissions should be enclosed. Maps, drawings and related documentation showing the location of emission point (copy of the map included in the installation design) should be included as **Annex 6**

All emissions from point sources should be elaborated upon in detail. **Table 6.1.1** is to be completed for emissions from installations with steam boilers with heat input of more than 2 MW. Sources of emissions of this kind should be marked as A1 (A1-1....A1-n). Details for each main source of emissions will be given in separate table.

For all main sources of emissions **tables 6.1.2 and 6.1.3** should be completed. Main sources of emissions into air should be marked as A2 (A2-1....A2-n). Details for each main source of emissions will be given in separate table.

Table 6.1.4 should be completed in case of lesser or potential sources of emissions. Lesser or potential sources of emission into air should be marked as A3 (A3-1....A3-n). Information on height of emission points, height of roofs, flows and pressure should be included as well.

In case of emissions outside the scope of the technical guidelines for BAT a detailed analysis of emission reduction system is to be carried out. Planned measures are to be included in plan for improvements aimed at achieving limit values defined in BAT or BREF technical guidelines in Chapter 10. The plan should include specific objectives and timing, together with options for modification, upgrading or change of installation for treatment in order to bring emissions within the scope of criteria set out in BAT technical guidelines. Any failure to make emission fall within the scope of BAT must be elaborated and accounted for.

Table 6.1.1 Emission into atmosphere from steam boilers (one page for each emission point)

Emission point:

Emitter Designation	
Description	
Coordinates: according to Gauss–Krüger: 1942_GK_ZONE_4 Coordinate System	
Information on chimney	m
Diameter	
Height above ground (m)	m
Date of putting into operation	

Characteristics of emission:

Boiler Capacity	
Steam output	kg/h
Heat input	MW
Fuel	
Type	
Maximum fuel consumption	kg/hr
Sulphur content %	
NOx	mg/Nm ³ 0°C. 3% O ₂ (liquid or gaseous), 6% O ₂ (solid fuel)
Current concentration O ₂ %	
Maximum flow of gases	m ³ /hr
Temperature	°C(max.) °C(min.) °C(avg.)

Period or periods when the emissions occur, including daily or seasonal variations (indicate putting into operation and/or cessation of operation):

Emission period (average)	min/h	h/day	day/year
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Table 6.1.2 Main emissions into atmosphere – Characteristics of emissions
(one page for each emission point)

Emission point Reference Number	
Source of emission	
Description	
Coordinates: according to Gauss–Krüger : 1942_GK_ZONE_4 Coordinate System	
Information on chimney Diameter Height (m)	
Starting date of emissions	

Characteristics of emission

Flow (volume emitted)			
Mean value/day	Nm ³ /d	Max./day	m ³ /d
Maximum value/hour	Nm ³ /h	Min. flow	m.s ⁻¹
Other factors			
Temperature	°C (max)	°C (min)	°C (med. value)
Sources of combustion: Volume values given as: <input type="checkbox"/> dry <input type="checkbox"/> wet _____%O ₂			

Period or periods when the emissions occur, including daily or seasonal variations (indicate putting into operation and/or cessation of operation)

Emission periods (average)	min/h	h/day	day/year
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Table 6.1.3: Main emissions into atmosphere – Characteristics of emissions (one page for each emission point)

Emission point reference number: _____

Parameter	Before treatment				Short description of treatment	Emission code					
	mg/Nm ³		kg/h			mg/Nm ³		kg/h		kg/god	
	Average	Max.	Average	Max.		Average	Max.	Average	Max.	Average	Max.

Concentrations must be based on normal conditions for temperature and pressure (0°C, 101.3 kPa). Wet/dry should be indicated as in the case of table 6.1.2., unless stated otherwise

Table 6.1.4: Emissions into atmosphere – Lesser emissions into atmosphere (one table for each emission point)

Emission point reference number: _____

Emission point Reference numbers	Description	Details on emission ¹				Applied reduction system (filters, etc.)
		Material	mg/Nm ³⁽²⁾	kg/h	kg/year	

- (1) Maximum emission values should be specified for each emitted substance. Concentrations should be specified for 30 minute interval at maximum.
- (2) Concentrations must be based on normal conditions for temperature and pressure (0°C and 101.3 kPa). Wet/dry condition needs to be clearly specified. Specify referential conditions for oxygen for combustion emissions

6.2 FUGITIVE AND POTENTIAL EMISSIONS

Table 6.2.1 should be completed for all sources of potential and fugitive emissions and detailed information on them provided as well.

In accordance with the activities listed in the Albanian Laws on emissions of volatile organic compounds indicate whether the emissions comply with the provisions of the Regulations or not and, if not, explain how you will achieve that. Enclose organic solvent management plan.

Complete detailed and additional information should be included as **Annex 6**

Table 6.2.1: Emissions into atmosphere – Potential emissions into atmosphere

Emission point (reference number) According to the enclosed map	Description	Condition-malfunction which may cause an emission	Data on emission (Potential maximum emissions) ¹⁴		
			Material	mg/Nm ³	kg/h

¹⁴ Calculate potential maximum emissions for each condition identified (flow).

6.3 EMISSIONS INTO SURFACE WATER

For emissions into surface water **tables 6.3.1 and 6.3.2** should be completed.

List of all emission points with the maps, drawings and related documentation should be included as **Annex 6**.

For each source, it is necessary to indicate the substances released. All liquid and sludge emissions into surface waters and atmospheric precipitations gravitating towards surface waters shall be accounted for. Points of discharge are to be shown on the terrain map with marked coordinates in the Gauss–Krüger: 1978_GK_ZONE_4 Coordinate System. Identity and type of the recipient should be specified, too.

In case of emissions outside the scope of the technical guidelines for BAT a detailed analysis of emission reduction system is to be carried out. Planned measures are to be included in plan for improvements aimed at achieving limit values defined in BAT or BREF technical guidelines in Chapter 10. The plan should include specific objectives and timing, together with options for modification, upgrading or change of installation for treatment in order to bring emissions within the scope of criteria set out in BAT technical guidelines. Any failure to make emission fall within the scope of BAT must be elaborated and accounted for.

Table 6.3.1: Emissions into surface water (one page for each emission)

Emission point

Emission point Ref. Number (ref. number needs to be the same as shown on the map of the site)	
Emission source	
Location	
Coordinates: in the Gauss–Krüger: 1942_GK_ZONE_4 Coordinate System	
Name of the recipient (river, lake...)	
Flow rate of the recipient	_____ m ³ .s ⁻¹ flow rate during draught period _____ m ³ .s ⁻¹ 95% flow rate
Pollutant absorption capacity	kg/day

Detailed information on emissions

Emitted amount			
Average/day	m ³	Maximum amount/day	m ³
Maximum amount/hour	m ³		

Period or periods when the emissions occur, including daily or seasonal variations (indicate putting into operation and/or cessation of operation):

Emission periods (average)	min/h	h/day	day/year
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Table 6.3.2: Emissions into surface water – Characteristics of emissions (one table for each emission point)

Emission point reference number: _____

Parameter	Before treatment				At site of release into recipient				Efficiency of treatment equipment (%)
	Max. average hourly value (mg/l)	Max. average daily value (mg/l)	kg/day	kg/year	Max. average hourly value (mg/l)	Max. average daily value (mg/l)	kg/day	kg/year	

6.4 EMISSIONS INTO SEWER

Tables **6.4.1** and **6.4.2** should be completed. List of all emission points with the maps, drawings and relevant documentation should be included in **Annex 6**.

For each source, it is necessary to indicate the substances released.

Annex 6 should feature all relevant information on sewer-recipient, including those on the system for treatment of waste water which has not been previously described.

In case of emissions outside the scope of the technical guidelines for BAT a detailed analysis of emission reduction system is to be carried out. Planned measures are to be included in plan for improvements aimed at achieving limit values defined in BAT or BREF technical guidelines should be described in Chapter 10. The plan should include specific objectives and timing, together with options for modification, upgrading or change of installation for treatment in order to bring emissions within the scope of criteria set out in BAT technical guidelines. Any failure to make emission fall within the scope of BAT must be elaborated and accounted for.

Provide detailed information on all emissions which might impact the integrity of the sewer and the safety of its management and maintenance.

Table 6.4.1: Emissions into sewer (one page for each emission)

Emission points:

Emission point ref. number: (ref. number needs to be the same as shown on the map of the site)	
Location of discharge point into the sewer:	
Coordinates: in the Gauss–Krüger: 1942_GK_ZONE_4 Coordinate System (for the purpose of impact assessment)	
Name of the company which manages wastewater collection system	
Is the sewer system connected to a treatment plan?	
Name of the final recipient of wastewater from sewer (estuary, river or other final receiving body and the impact is to be checked on it).	

Detailed information on emissions:

Emitted amount			
Average/day	m ³	Maximum amount/day	m ³
Maximum amount/hour	m ³		

Period or periods when the emissions occur, including daily or seasonal variations (indicate putting into operation and/or cessation of operation):

Emission periods (average)	min/h	h/day	day/year
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Table 6.4.2: Emissions into sewer – Characteristics of emissions (one table for each emission point)

Emission point reference number: _____

Parameter	Before treatment				At site of release into recipient				Efficiency of treatment equipment (%)
	Max. average hourly value (mg/l)	Max. average daily value (mg/l)	kg/day	kg/year	Max. average hourly value (mg/l)	Max. average daily value (mg/l)	kg/day	kg/year	

6.5 EMISSIONS INTO SOIL

For emissions into soil **Tables 6.5.1 and 6.5.2** should be completed.

Describe systems and procedures to prevent or reduce the release of pollutants into groundwater, as well as procedures for prevention of adverse impact on groundwater bodies.

The applicant should provide information about the types of substances (agricultural or non-agricultural waste) to be spread on land (waste sludge, ash, waste liquids, etc.), as well as the proposed amount, periods and method of spreading (exhaust pipe, nozzle, tank).

Each emission point or area needs to be shown on the map of the site itself.

In case of emissions outside the scope of the technical guidelines for BAT a detailed analysis of emission reduction system is to be carried out. Planned measures are to be included in plan for improvements aimed at achieving limit values defined in BAT or BREF technical guidelines should be described in Chapter 10. The plan should include specific objectives and timing, together with options for modification, upgrading or change of installation for treatment in order to bring emissions within the scope of criteria set out in BAT technical guidelines. Any failure to make emission fall within the scope of BAT must be elaborated and accounted for.

Supporting documentation should be included in **Annex 6**.

Table 6.5.1: Emissions into soil (one page for each emission point)

Emission point or emission area:

Reference map of the site no.	
Emission point or emission area ref. no.	
Manner of emission release: (boreholes, wells, permeable layers, wetting, spreading etc.)	
Location	
Coordinates: in the Gauss–Krüger: 1942_GK_ZONE_4 Coordinate System	
Height of release: (in relation to the recipient altitude)	
Water classification of the recipient (groundwater body): (if available)	
Assessment of pollution sensitivity of groundwater body (including the degree of sensitivity)	
Identity and distance of groundwater sources at risk of negative impact from emissions (wells, sources, etc.)	
Identity and distance of surface bodies of water at risk of negative impact from emissions	

Detailed information on emissions:

Emitted amount			
Average/day	m ³	Maximum amount/day	m ³
Maximum amount/hour	m ³		

Period or periods when the emissions occur, including daily or seasonal variations (indicate putting into operation and/or cessation of operation):

Emission periods (average)	min/h	h/day	day/year
-----------------------------------	--------------	--------------	-----------------

Table 6.5.2: Emissions into soil – Characteristics of emissions (one table for each emission point or emission area)

Reference number of emission point/emission area: _____

Parameter	Before treatment				At site of release into recipient				Efficiency of treatment equipment (%)
	Max. average hourly value (mg/l)	Max. average daily value (mg/l)	kg/day	kg/year	Max. average hourly value (mg/l)	Max. average daily value (mg/l)	kg/day	kg/year	

6.6 NOISE EMISSIONS

Provide details on sources (location, nature, level, period or periods of emission) of noise that is generated or will be generated.

Table 6.6.1 should contain information on each individual source, as required. Each source of noise is to be marked on the map of the site.

Supporting documentation should be included in **Annex 6**.

In case of emissions outside the scope of the technical guidelines for BAT a detailed analysis of emission reduction system is to be carried out. Planned measures are to be included in plan for improvements aimed at achieving limit values defined in BAT or BREF technical guidelines in Chapter 10. The plan should include specific objectives and timing, together with options for modification, upgrading or change of installation for treatment in order to bring emissions within the scope of criteria set out in BAT technical guidelines. Any failure to make emission fall within the scope of BAT must be elaborated and accounted for.

Table 6.6.1: Noise emission – Summary list of sources of noise

Source	Emission point Ref. Num.	Coordinates according to Gauss–Krüger Coordinate System:1942_GK_ZONE_4	Equipment Ref. Num.	Acoustic pressure ¹ (dBA) at reference distance	Emission period

1 For segments of installations levels of noise intensity may be used.

6.7 VIBRATIONS

Detailed information on vibrations should be prepared and, if possible, present them for the past year.

Specify and mark on the map the locations of sources of vibration which may impact the environment beyond the premises of the installation and provide results of measurements or calculations.

Sources of vibration should include blasting and transport taking place within the installation. For new installations, all sources of vibration during the construction and operation of the installation should be taken into account. All sources are to be described in graphic annexes.

All additional documentation should be included in **Annex 6**.

6.8 NON-IONIZING RADIATION

Identify sources of non-ionizing radiation impacting the environment beyond the premises of the installation and show results of measurement or calculations which were performed. Sources are to be shown on the map of the site.

6.9 DESCRIBE STATE OF THE SITE

Provide data on the state of the environment (air, surface and ground water, soil, noise, hydrology geology, stability, protected species, etc.) related to the construction and commissioning of the installation. Collected data must be relevant. If not already available, conduct investigations. This is the baseline condition to which the effects of emissions will be added and to which the environment should be brought in case of cease of operation or of an environmental damage recovery.

All additional information should be included in **Annex 6**.

6.10 ASSESSMENT OF IMPACT OF EMISSIONS INTO ATMOSPHERE

Describe the current state of air quality with special attention given to the standards for the quality of ambient air.

Indicate whether emissions into the air, despite the fact that they are within the limits provided by the application of best available techniques, can cause damage or adversely affect the environment. If odour is detected outside the premises of the installation, an assessment of odour should be provided, bearing in mind the frequency and location of its occurrence.

Provide details on the environmental impact assessment of existing or anticipated environmental emissions, including media in which emissions were not released.

Annex 6 should include models of dispersion of emissions into atmosphere from various processes in the installation. All models and other information should be included in **Annex 6**.

6.11 ASSESSMENT OF IMPACT ON SURFACE WATER

Albanian Laws on

- hazardous and harmful substances in water with as well as the national classification of waters and coastal waters;
- conditions for wastewater discharge into public sewers;
- conditions for wastewater discharge into surface water;
- classification of waters and watercourses

must be complied with.

Table 6.11.1 should be completed.

Indicate whether emissions into surface waters, despite the fact that they are within the limits provided by the application of best available techniques, can cause damage or adversely affect the environment.

Provide details on the environmental impact assessment of existing or anticipated environmental emissions, including media in which emissions were not released.

Details on the assessment and other relevant information should be included in **Annex 6**.

Table 6.11.1: Surface water quality

Monitoring location/Coordinates in the Gauss–Krüger: 1942_GK_ZONE_4 Coordinate System: _____

Parameter ¹	Results (mg/l)				Method of sample taking (automatic, current single, current composite etc.)	Normal analytical scope	Analytic method/ technique
	Date	Date	Date	Date			

¹ List all mandatory and site specific parameters
If necessary, add new lines

6.12 ASSESSMENT OF IMPACT OF RELEASES INTO SEWER

Provide details on the environmental impact assessment of existing or anticipated environmental emissions, including media in which emissions were not released.

Details on the assessment and other relevant information should be included in Annex 6.

6.13 ASSESSMENT OF IMPACT OF EMISSIONS ON GROUNDWATER

Describe the current state of groundwater quality in accordance with the classification of waters (watercourses, etc.) and coastal waters in Albania.

Complete **Table 6.13.1**.

Provide details on the environmental impact assessment of existing or anticipated environmental emissions, including media in which emissions were not released. This includes spreading on the surface, injecting into the soil, etc.

Detailed information on the assessment, including hydrological report, data on water quality, classifications of permeable layer, sensitivity, identification and zoning of the sources and water courses should be included in **Annex 6**.

When emissions are released directly on or into the soil, soil testing should be undertaken. It is necessary to identify all sensitive bodies of water (as a result of surface emissions).

Table 6.13.1: Groundwater quality

Monitoring location/Coordinates in the Gauss–Krüger Coordinate System: 1942_GK_ZONE_4 _____

Parameter ¹	Results (mg/l)				Method of sample taking (intake, deposit etc.)	Normal analytical scope	Analytic method/technique
	Date	Date	Date	Date			

¹ List all mandatory and site specific parameters
If necessary, add new lines

Groundwater quality List 2 of 2

Parameter ¹	Results (mg/l)				Method of sample taking (intake, deposit etc.)	Normal analytical scope	Analytic method/technique
	Date	Date	Date	Date			
Water level (above sea level)							

1 List all mandatory and site specific parameters
 Insert rows if as required

6.14 SPREADING AGRICULTURAL AND NON-AGRICULTURAL WASTE

When applicable spreading agricultural and non-agricultural waste (manure, ash, sludge etc.). Tables 6.14.1 and 6.14.2 should be completed.

If waste is spread on someone else's land, a valid contract with the landowner should be enclosed.

Table 6.14.1: List of landowners

Landowner	Location on which spreading is done	Data from the map No.	Ref. number	Phosphorus waste demand for each farm ¹

¹Total phosphorus waste demand for each client

Table 6.14.2: Spreading

Landowner/Farmer _____

Reference map, coordinates according to Gauss–Krüger: 1942_GK_ZONE_4
Coordinate System _____

Identity of an area	
Total area (ha)	
(1) Usable area (ha)	
Soil test for phosphorus mg/l	
Date of creation of phosphorus test	
Culture	
Phosphorus demand (kg P/ha)	
Amount on sludge spread on a farm (m ³ /ha)	
Estimated amount of phosphorus in sludge spread on a farm (kg P/ha)	
(2) Volume on which it should be applied (m ³ /ha)	
Applied phosphorus (kg P/ha)	
Total amount of spread sludge (m ³)	

Total amount which may be taken to a farm

Phosphorus concentration in material to be spread	- kg phosphorus/m ³
Nitrogen concentration in material to be spread	- kg nitrogen/m ³

6.15 LAND/GROUNDWATER POLLUTION

Detailed information on known previous or current soil and groundwater pollution at or near the installation site should be provided.

All details, including research studies, evaluations, reports, monitoring results, and methods for pollution prevention, remediation, etc. should be included in **Annex 6**.

Provide information on the assessment of the impact of waste recovery and disposal at the site.

Describe measures aimed at preventing generation and recovery of waste. Provide detailed assessment of environmental impact of existing or proposed waste disposal within the installation site including media in which emissions were not released.

This information is to be included in **Annex 6**.

6.16 NOISE IMPACT

Measuring ambient noise should be carried out for assessing noise impact.

Complete **Table 6.16.1** with regard to information listed below:

- Specify the maximum level of noise that can occur at characteristic points within the premises of the installation (specify interval of duration of measurement);
- Specify the maximum level of noise that can occur at characteristic sensitive points outside the premises of the installation;
- Provide details of the existing noise level when the installation is not operational, i.e. in the absence of noise from the installation.

Annex 6 should include sound propagation model and measures for the damping and noise control.

Table 6.16.1 Ambient noise assessment

	Coordinate System Gauss–Krüger: 1942_GK_ZONE_4	Noise level /dB(A)		
		L(A) _{eq}	L(A) ₁₀	L(A) ₉₀
Installation premises				
Location 1:				
Location 2:				
Location 3:				
Location 4:				
Noise sensitive locations				
Location 1:				
Location 2:				
Location 3:				
Location 4:				

Note: All locations have to be clearly marked on enclosed maps.

7 EMISSION REDUCTION AND CONTROL SYSTEMS

Describe existing / proposed measures, technology and other techniques to prevent, or if it is not practicable, to reduce emissions from the plant / facilities.

Include information on systems for reduction and control of emissions (emissions into air and water) together with corresponding designs according to the guidelines for the application form.

For each identified emission point, complete Table 7.1.1 and provide design of the emission reduction system.

Information to be presented in **Annex 7**.

Table 7.1.1: Reduction/treatment, emission control

Emission point reference number: _____

Controlled parameter ¹	Equipment ²	Equipment maintenance	Equipment calibration	Equipment support

¹ Specify operational parameters of emission reduction/control systems

² Specify equipment necessary for operation of emission reduction/control systems

Specify monitoring of controlled parameters to be performed

Monitored parameter ¹	Monitoring to be performed ³	Monitoring equipment	Calibration of monitoring equipment

8 MONITORING

8.1 MONITORING AND SAMPLING

Identify monitoring and sampling locations and describe your proposals for emission monitoring. For each point for monitoring of emissions into air, surface waters, sewer, soil and waste monitoring, complete **Table 8.1.1**.

Table 8.1.1: Emission monitoring and sampling locations (one table for each monitoring location)

Emission point reference number: _____

Parameter	Monitoring frequency	Access to measurement locations	Sampling method	Analysis method/technique

8.2 ENVIRONMENTAL QUALITY MONITORING

For monitoring of environmental quality, complete **Table 8.2.1** for each medium and individual monitoring point.

It is necessary to include data on location, methods of monitoring and sampling and frequency.

Annex 8 should include all remaining related information.

Table 8.2.1: Measurement location and environmental monitoring (one table for each monitoring location)

Emission point reference number: _____

Parameter	Monitoring frequency	Access to measurement locations	Sampling method	Analysis method/technique

9 ENVIRONMENTAL ASPECTS AND BEST AVAILABLE TECHNIQUES

Describe briefly the main alternatives to the proposal contained in the application, if any.
Describe environmental aspects you took into account with regard to cleaner technologies, waste reduction and raw materials replacement.

Describe existing or proposed measures aimed at securing:

1. Implementation of best available techniques to prevent, or when it is impracticable, to reduce emissions from the installation;
2. Absence of significant pollution;
3. Prevention of waste generation in accordance with the Law on Integrated Waste Management, when waste is generated, it is used, or, when it is not technically or economically feasible, waste is disposed while avoiding or reducing its environmental impact;
4. Efficient energy use;
5. Taking all measures necessary to prevent accidents and mitigate their impact (as described in detail in Chapter 11);
6. Take all necessary measures to eliminate the risks of pollution and creation of favourable conditions at the site after the cessation of operation (as described in chapter 12).

Annex 9 should include all remaining related information.

Elaborate on the choice of technology and explain (including financial aspects) why, if necessary, why the best available technique was not implemented.
Here it is necessary to explain in detail all deviations from emissions related to the application of best available techniques.

10 IMPROVEMENT PROGRAM

Operators submitting an application for an integrated environmental permit have to enclose proposal-program for improvement of installation operation and environmental protection.

The program should include measures for elimination or maximum reduction of all deviations from the performance of best available techniques.

Give a tabulation of all measures with deadlines and financial estimates for the execution of the plan on annual basis. Propose a method of reporting on results of implementation of measures/plan.

Provide an estimate of the effect of each measure for reduction of emissions, energy efficiency, and use of raw materials, water and energy.

11 DESCRIPTION OF OTHER PLANNED PREVENTIVE MEASURES

11.1 ACCIDENT PREVENTION AND RESPONSES DURING EMERGENCIES

Make a list of possible situations which may have an impact on the environment

Describe existing or proposed measures, including emergency procedures aimed at reducing environmental impact of emissions in case of accidents or leaks.

Indicate what emergency response measures were taken outside normal working hours (night, weekend, holidays).

Describe procedures in extraordinary cases (start-up, leaks, malfunctions, short-term cessation of operation etc.).

Set deadlines for taking certain actions and measures; provide information on responsible persons in accordance with the Regulation on the content of reports on security, nature of information about security measures and content of internal and external intervention plans.

All related information should be included in **Annex 11**.

11.2 OTHER IMPORTANT DOCUMENTS RELATED TO ENVIRONMENTAL PROTECTION

Comments on other related documents like: voluntary participation, contracts, eco labels, cleaner production program etc. should be included in **Annex 11**.

12 REMEDIATION, CESSATION OF OPERATION, RESTART AND CONTROL FOLLOWING THE DECOMMISSIONING

Describe existing or proposed measures aimed at reducing environmental impact following the cessation of activities in entire installation or its parts, including measures for management of potential pollutant residues after shut-down

Annex 12 should include all remaining related information.

13 WASTE MANAGEMENT PLAN

Describe existing or proposed plans for management of waste including tentative handling on the premises.

Annex 13 should include all remaining related information.

14 NON-TECHNICAL SUMMARY

Here you should present a summary of environmental permit requirements without specifying technical details.

The summary should identify all known environmental effects in connection with the execution of activities in the installation, and describe existing or proposed measures aimed at reducing environmental impact.

This description should indicate normal working hours and working days for performance of operations during a week

The summary should include the following information:

Description:

- Installation and its activities;
- Raw and auxiliary materials, other substances and the energy used in or generated by the installation;
- Sources of emissions from the installation;
- Conditions on the site of the installation and known historic cases of pollution;
- Nature and quantities of anticipated emissions from the installation into each medium as well as identification of significant effects of the emissions on the environment;
- Proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the installation, especially by applying best available techniques;
- Alternative in connection with the choice of site and technology
- Measures for prevention and recovery of waste (if necessary)
- Measures for effective use of energy
- Other planned measures in accordance with the general principles governing the basic obligations of the operator, i.e. :
 - a. necessary measures are taken to prevent accidents and limit their consequences;
 - b. necessary measures are taken upon definitive cessation of activities to avoid any risk of pollution and return the site of operation to the satisfactory state
- Planned monitoring of emissions from the installation.

Information should be given in **Annex 14**.

15 STATEMENT

Statement

By signing this statement I hereby submit application for a permit/revised permit, in accordance with the provisions of the Law “On Environmental Protection”, Law “On Environmental Permitting” and related secondary legislation.

I hereby confirm that information given in this application is true, correct and complete.

I have no objections to copying of applications for the purpose of public presentation to the extent of not being in conflict with the provisions of the legislation on personal data protection and commercial confidentiality.

Name of the signatory: _____

Position within organization: _____

Signature: _____ **Date:** _____
(for the organization)

Stamp of
Company/Operator