

## A – IPPC Permit

**Name of the company**

PIVARA Skopje AD Skopje (BREWERY SKOPJE, JSC Skopje)

**Address:**

str. 808 no.12  
1000 Skopje - Gazi Baba

**No of Permit**

Permit No.11-7427/1 from 08.08.2012

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**Dictionary of used terms**

<b>Aerosol</b>	Suspension of solid and liquid particles in gas medium
<b>Atmosferic water</b>	Rain water flowing from roofs and places where are no processes
<b>Application</b>	Application submitted by the Operator for issuing this permit
<b>BOD</b>	Biological oxygen demand for 5 days
<b>ELV</b>	Emission limit values
<b>ARE</b>	Annual report for environment
<b>Annual</b>	Approximately in intervals of 12 months, or part of period consisting of 12 successive months
<b>Construction waste and waste from demolition</b>	Waste that is generated from construction, renovation or demolition, chapter 17 from national waste catalogue or as otherwise specified
<b>Emission limit values</b>	The mass stated at particular specific parameters, concentration or flow level, which should not overflow during one or more time periods.
<b>Mass flow limit value</b>	Emission limit value expressed as maximum mass of a substance that can be emitted in time units
<b>dB(A)</b>	Decibels
<b>Day</b>	Every period of 24 hours
<b>During the day</b>	Period from 8.00 until 22.00 (all changes shall be reflecting on a definition for “night time”).
<b>Daily</b>	During all working days of the installation and in case of emissions when the emissions are done...: with at least one measurement for one day (no matter which day)
<b>Contract</b>	Written contract
<b>Documentation</b>	Every report, records, data, image, suggestion, interpretation or any other document in written or electronic version which is requested in this permit.
<b>Two years/biannual</b>	Once at each 2 years
<b>Environmental damage</b>	According the definition for environmental damage at article 5 from Law on environment

<b>Green waste</b>	Waste wood (not including impregnated wood), vegetative materials such as grass or other vegetation
<b>I.S.EN</b>	International standard EN
<b>Incident</b>	<ul style="list-style-type: none"> <li>(i) Emergency case</li> <li>(ii) Every emission that is not in compliance with conditions from this permit</li> <li>(iii) Every exceeding of daily capacity of the equipment for waste handling</li> <li>(iv) every level given to this permit and is achieved or exceeded</li> <li>(v) Every indication that pollution of the environment has happened or can happen</li> </ul>
<b>Industrial non hazardous waste</b>	Industrial non hazardous waste is waste that is generated during production processes and is not containing dangerous characteristics and according characteristics, content and quantity differs from communal waste.
<b>Installation</b>	<p>According the definition for installation from Article 5 from Law on Environment:</p> <ul style="list-style-type: none"> <li>- in regards to integrated environmental permits, it is stationary technical unit where are performed one or more activities or activities directly related to these activities and which can affect emissions and the pollution</li> <li>- in regards to pollution prevention and control of the accidents with dangerous substances, installation is technical unit in the frame of one system where are produced, utilized, stored or it is manipulating with hazardous substances. This includes whole equipment, objects, pipelines, machines, tools, private railways, stations for unloading, storage places or similar building important for every day work of the installation</li> </ul>
<b>IPPC</b>	Integrated prevention and pollution control
<b>ISO</b>	International standard organization
<b>K</b>	Kelevin (Measuring unit for temperature)
<b>Capacity/equipment for retention</b>	Equipment for retention of liquid materials, collection points
<b>kPa</b>	Kilo pasquals
<b>Quarterly</b>	Whole or part of period from three continuous months, starting from first day in january, april, july or october
<b>Leq</b>	Equivalent continuous level of sound

<b>Location sensitive of noise (L&amp;B)</b>	Every resident house, hotel or hostel, hospital, schools, religious objects or any other places and objects for which needed level of noise is not causing discomforts.
<b>MAC</b>	Maximum allowed concentration of pollution materials in gases that are emitted
<b>Monthly</b>	Minimum 12 times during one year, approximately in month intervals
<b>Responsible Authority</b>	Responsible body for issuing IPPC permit
<b>BAT</b>	Best available techniques
<b>Weekly</b>	During all weeks from work of the installation and in case of emissions when there is emission with minimum measurement in any week
<b>Night time</b>	From 22.00 until 08.00
<b>Maintenance</b>	Keeping in good condition, including regular inspection, servicing, calibration and repairing if needed in order adequate completing the function.
<b>Operator</b>	According definition for Operator from article 5 from Law on environment, Operator shall mean any legal entity or natural person that performs professional activity or performs an activity through the installation and/or controls an installation, or a person to whom economic decision making power over the activity or technical functioning of the installation has been delegated, including the holder of the permit or authorisation for such activity or person in charge of recording or alarming with regard to the activity.
<b>Semi annual</b>	Total or part of the periods from 6 successive months
<b>Plant</b>	Every place or space used for processing or treatment of waste
<b>Tresh hold for mass flow</b>	Quantity of mass flow above which is applicable limitation with maximum allowable concentrations
<b>RAEL</b>	Risk assessment for environmental liability
<b>Annex</b>	Every referring to Annex in this permit refers to Annexes submitted as part of this permit
<b>Sample</b>	If the context of this permit is not referring to anything different, the sample will include measuring with electronic instruments
<b>WWTP</b>	Waste water treatment plant
<b>PEM</b>	Programme for environmental management

<b>PRMCDI</b>	Plan for risk management after closing down the installation
<b>Working hours</b>	Hours/time when installation have permit and is authorized to work
<b>RETPM</b>	Register of examination and transfer of pollution materials
<b>DO</b>	Dissoluted oxygen
<b>SP</b>	Suspended particled
<b>Sanitation/communal effluent</b>	Waste waters from toilets, washing places and cantine of the installation
<b>Picture</b>	Every reference to picture or number of picture means picture or number of picture contained in the application, unless otherwise agreed
<b>Appropriate lighting (light)</b>	20 lux, measured on soil level
<b>Standard method</b>	National, European or internationally recognized procedure (ex.IS,EN, ISO, CEN, BS or equivalent)
<b>EMS</b>	Environmental management system
<b>Heavy metals</b>	Heavy metals are group of elements between copper and bismuth in periodic table with specific density higher than 4.0 g/cm <sup>3</sup>
<b>Liquid waste</b>	Any waste in liquid form and content less than 2% dry materials.
<b>H1 software package</b>	Software which is used for data submission, their calculation and impact as well as information for costs.
<b>COD</b>	Chemical oxygen demand
<b>CEN (CEN)</b>	European Committee for Standardisation.

## Introduction

### ***These introductory notes are not part of the permit***

The following installation is issued according Law on Environment (Official Gazzette 53/05, 81/05, 24/07,159/08, 83/09, 48/10, 124/10 и 51/11) for operation of the installation that is performing one or more activities listed in the Ordinance of the Government of Republic of Macedonia for defining the activities of the installations for which is issued integrated environmental permit, or Adjustment permit with an operational plan for submission an application for operational plan (Official Gazette of RM No 89/2005), up to the approved level in the Permit.

Short description of the installation regulated with this permit

Other integrated permits related to this installationn		
Owner of the permit	No of permit	Date of issuance

Changed permits/Approval/Authorizations related to this installation		
Owner	Reference number	Date of issuance

Pivara Skopje, AD was founded in 1924 as Joint Stock Company with production capacity of 36.000 hl beer. During its operation factory was many times reconstructed and modernized and passed through numerous transformations. In 1979 started with production of non-alchocolic beverages (NAB). In 1991 Skopje Pivara got liscence for production of Coca Cola products, from the Coca Cola Company. Before the end of 1998, Brewinvest Company (CHBC&Heineken) from Greece became dominant owner of Skopje Pivara. Its continuous progress made the Pivara in condition for production of 1.100.000 hl beer and 1.900.000 hl non-alchocolic beverages (NAB).

The distribution network of Pivara Skopje is spread over whole territory of Republic of Macedonia as well as in some of the neighbouring countries. Today the Brewery has 368 employees, working in 40 hours per week (in average 8 hours daily). On annual level Pivara Skopje works 2088 hours and depending on the year it can have small difference in the total hours.

Today, Pivara Skopje is one of the leading companies in Macedonia with modern factories and distribution centers in Kumanovo, Tetovo, Ohrid, Kocani, Strumica, Kavadarci, Kicevo, Stip, Veles, Bitola, Prilep and Vranje.

Main activity and also most developed is production of beer and non-alchocolic beverages (NAB). Total range is divided in 4 strategic groups:

- Beer,
- non-alchocolic beverages (NAB),
- Beer yeast
- treber

Main aims of the company is extending and increasing of the market, securing the market with high quality products, extending of the production range and environmental protection. Accomplishing of this aim is possible through main business processes and

auxiliary processes. Main activities of production processes of Skopje Pivara are as follows:

In Pivara Skopje are implemented and are maintained systems for quality management, food safety, health, safety and environment, according the international standardization requirements of ISO 9001, ISO 22000, and ISO 14001, OHSAS and according the environmental legislation in Republic of Macedonia. Beside these standards, the brewery is in compliance also with intercompany standards given in TCCC Heineken CE and CC Hellenic. Sources of emissions in the air and water from Pivara Skopje are registered in the production plants for beer and non-alcoholic beverages (NAB). Emissions into the air are evident from boilerhouse, plant which using the natural gas, enables in some conditions to turn water into water vapour with particular pressure and temperature, which is furthermore needed for production purposes. Production of steam is enabled by one boiler ORO 10SA-4948 and one more boiler ORO 255A, while the 2 boilers are not used in the same time. In the boiler house there is one more boiler BK6 100 which is not in use. Depending on the production needs, Pivara Skopje use only one boiler, either the big one ORO 255A, or the smaller one ORO 10SA-4948. Biggest amount of liquid waste is generated in the production process and during cleaning the equipment and plants. Waste water from production processes is treated in Waste water treatment plant (WWTP) and then is discharged to city sewage system. There are no water emissions to surface recipient

Pivara Skopje is generating the hazardous waste as follows:

- waste accumulators
- luminous lamps
- used motor oil
- waste tires from fork trucks

Pivara Skopje is serious company which besides care for production of safe and high quality products and safety of the employees also takes care for the environment. In order continuous monitoring of the environmental impact from its production processes, the brewery has prepared Plan for monitoring and measuring. In order reducing the negative impact to the environment from its production, the brewery has prepared plan for construction of WWTP, which is already realized and the WWTP is already in use.

In Pivara Skoje there is implemented Plan for protection and rescuing in case of following dangers:

1. Fire protection and rescuing from fires
2. Earthquake
3. Floods
4. Air danger
5. Radiation-Biological-Chemical danger
6. Leakage of leach
7. Leakage of natural gas
8. Explosion of boilers in the boilerhouse
9. Explosion of CO2 reservoir

There are also stated measures and activities for protection and rescuing of the employees in case of emergency.

### **Communication**

Would you like to contact with Responsible Body from the State Administration responsible for activities from environment (herein after Responsible Authority) in regards to this permit, please refer to the number of this permit.

For any other information, please contact the Responsible body for Environment, address bul. Goce Delchev nn, MRTV Building, 10<sup>th</sup> floor, 1000 Skopje, Republic of Macedonia.

### **Confidentiality**

This permit obliges the Operator to submit data to Responsible Authority. Responsible Authority will publish data into public registers according Law on Environment activities. If the Operator considers that any of the provided data are confidential, it should require from the Responsible Authority to exempt those data from the register, according Law on Environment. In order enabling easier determination of the data confidentiality, the Operator shall clearly define and state precise argument why it requires exemption. The Operator can define which documents or parts of it consider business or industrial confidential, according Law on Environment, article 55, paragraph 2, point 4. The operator shall state the reason why the Responsible Authority shall consider it as confidential. The data and argument for confidentiality shall be submitted with the application for IPPC permit in separate envelope.

### **Changes in the permit**

This Permit can be changed in accordance to the Law on Environment.

### **Passing the permit when the installation will stop working**

In case of partial or complete cessation of the installation operator notify the Responsible Authority. In order the application is successful, the operator must demonstrate to the Responsible Authority, pursuant to article 120, paragraph 3 from the Law on Environment, that there is no risk of contamination and that no further steps are needed to restore the site to a satisfactory conditions

**Requested and submitted documents**

Subject	Date	Comments
Application	Received	
Application no.11-5441/1	18.08.2008	It is submitted application for issuing Permit for Pivara Skopje, AD Skopje
Control – minutes from the control no.11		It is completed control of the installation in order confirmation of the real situation of the installation and data given in the Application no. 11-5441/1. It is written the minutes from the installation control.
Publication of application no 11-6007/1	29.06.2011	The application no. 11-5441/1 is published in the newspaper Večer and Koha and on the MoEPP web site
It is submitted notification and sample from the application to the relevant institutions no.11-6006/1	29.06.2011	It is submitted notification and sample from the application to the relevant institution for comments and notes
Control – minutes from the Control 1308-10232	18.11.2011	It is performed installation control after completed Draft A-IPPC Permit
It is submitted an opinion no.11-6006/2	20.07.2011	It is submitted Opinion for the application by the City of Skopje
Review – minutes from the review no.11		It is conducted installation control after starting the operation of the WWTP
Prepared text for publication of the Draft A IPPC Permit for Pivara Skopje AD Skopje no.11-4347/1	26.04.2012	Draft Permit is published at newspaper Večer and Lajmi and on the MoEPP web site. Publication is on 08.05.2012
Notification to Municipality of Gazi Baba for conducting public hearing no. 11-4347/2	12.06.2012	Notification to the Municipality Gazi Baba for conducting public hearing for the Draft A IPPC Permit for Pivara Skopje AD Skopje.
Announcement for Public Hearing no. 11-4347/3	12.06.2012	It is written text for publishing of the public hearing for Draft A IPPC Permit for Pivara Skopje AD Skopje
Minutes from the conducted public hearing no. 11-4347/6	22.06.2012	It is written minutes from the Public hearing for Pivara Skopje AD Skopje, conducted on
Making decision for starting with negotiations with Pivara Skopje AD Skopje no. 11-4347/4	13.06.2012	It is made a decision for starting the negotiations with Pivara Skopje AD Skopje

Making decision for forming up teams for negotiations with Pivara Skopje AD Skopje no. 11-4347/1	13.06.2012	It is made a decision for forming up team for negotiations with Pivara Skopje AD Skopje
Invitation for negotiations with Pivara Skopje AD Skopje no. 11-7427/1	25.07.2012	It is sent invitation for first negotiation meeting
Minutes from negotiations with Pivara Skopje AD Skopje no. 11-7427/2	31.07.2012	First negotiation meeting is conducted with Pivara Skopje AD Skopje
Minutes from conducted meeting and completed review in Pivara Skopje AD Skopje no. 1308-7662	06.08.2012	Minutes of meeting is prepared and it is conducted control at Pivara Skopje AD Skopje in regards to the prepared A IPPC Permit
Permit 11 -7427/3		

Law on Environment

## Permit

**Permit no.** 11-7427/3 from 08.08.2012

Responsible Body for environment within its jurisdiction, pursuant to article 95 from the Law on Environment (Official Gazette no. 53/05, 81/05, 24/07, 159/08 and 83/09, 48/10, 124/10 and 51/11), authorizes

**PIVARA SKOPJE, AD SKOPJE**

**With official address**

**Address:** str.808 Br.12  
1000 Скопје – Gazi Baba

**State:** Republic of Macedonia

Number of Company registration 4053974

*To manage with the installation*

**Full name of the installation:** PIVARA SKOPJE, AD SKOPJE

**Address:** str.808 Br.12  
1000 Скопје – Gazi Baba

**State:** Republic of Macedonia

In the frame of this Permit and conditions prescribed in the Permit

**MINISTER**

Abdilaqim Ademi

Date

08.08.2012
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## Conditions

### 1 Installation for which this permit is issued

1.1.1 The Operator is authorized to perform activities and/or related activities listed in Table 1.1.1.

Tabela 1.1 (a) Basic activities		
Activity from Annex 1 from the Ordinance for determining the installations for which is issued IPPC permit with time frame for submission of operational plans	Description of the activity	Scope of the activity
6.4. b) Treatment and processing intended for the production of food from plant raw materials with production capacity of finished products over 300 t / d (average value on a quarterly basis)	Production of - beer, - Non-alcoholic beverages(NAB), - yeast and - Treber.	Production of 1.100.000 hl beer and 1.900.000 hl non-alcoholic beverages.

Tabela 1.1.1 (b) Basic supportive activities		
Activity	Description of the activity	Scope of the activity
Storage and manage of the raw materials	Transport, storage and managing the raw materials	
WWTP	Treatment of technological waste water	
Storage and managing of finished product	Storage and managing of finished product	

1.1.2 Activities allowed in the conditions 1.1.1 are only within the location, shown and marked with 1 in the map below

Table 1.1.2	
Document	Place in the documentation
Map of Pivara Skopje	7 539263 E, 4 650675 N



1.1.3 This Permit is issued only for satisfying IPPC requirements according Law on Environment (Official Gazette of RM 53/05, 81/05, 24/07,159/08 and 83/09, 48/10, 124/10 and 51/11), and nothing in this permit shall not relieve the operator from the obligation to fulfill the terms and requirements of other laws and regulations

1.1.4 The Installation will operate, will be controlled and maintained and the emissions will be as prescribed in this Permit. All programmes that shall be performed according the conditions from this Permit are going to be treated as part of this Permit.

## 2 Operational matters

### 2.1 Management techniques and control

2.1.1 The Permitted Installation shall, subject to the conditions of this Permit, be managed and controlled as described in the application documentation, or as otherwise agreed in writing by the Responsible Authority.

Table 2.1.1: Management and control		
Description	Document	Date when is received
Management and control of the installation	Application No. 11-5441/1 Chapter III	18.08.2008

2.1.2 The Permitted Installation shall be supervised by employees suitably trained and fully conversant with the requirements of this Permit.

2.1.3 A copy of this Permit and those parts of the application referred to in this Permit shall be available, at all times, for reference by all staff carrying out work subject to the requirements of this Permit.

2.1.4 The permitted installation shall have manager fully qualified with appropriate experience which will be appointed as responsible person. The manager of the installation or other nominated person with appropriate qualifications and experience, having a role of deputy manager, will be present in the installation in any time while installation is in operation or as otherwise agreed with Responsible Authority.

2.1.5 The operator has implemented and regularly maintains Environmental Management System (EMS). Environmental Management System is continually upgrading during whole year. In the EMS are incorporated the following elements:

- Management structure and reporting
- Schedule for targets and objectives for environment

2.1.6 The operator shall prepare a schedule for objectives and targets for environment. The schedule shall provide review of all operations and processes including assessment of practical options for energy efficiency and other resources, using cleaner technology and cleaner production and prevention, then control, reduction and minimizing waste, as well as including targets for waste reduction. The schedule will include time frame for achieving the targets for period of 5 years. The schedule will be reviewed annually and all changes shall be reported to responsible body for their approval, as part of the annual report for environment (ARE).

2.1.7 The operator shall submit Environmental Management Programme to the Responsible Authority with timeframe for achieving targets and objectives prepared in condition 2.1.6. The operator shall implement and maintain the programme which shall contain the following:

- Allocation of responsibilities for tasks
- Budget for their achieving

➤ Time frame for completion of tasks

Environmental management programme is reviewed once per year and appropriate annexes shall be submitted to Responsible Authority for approval, as part of the annual report for environment (condition 2.1.6)

As part of Annual Report for Environment, the operator will prepare and submit report for the programme including success in achieving set targets. These reports will be archived in the installation for period no longer than 7 year and will be available for inspection of the Responsible Authority.

#### 2.1.8 Documentation

- The operator shall implement and maintain system for documenting the environmental management and shall be approved by the Responsible Authority
- The operator shall make copy available to every employee which responsibilities are related to conditions from this permit.

#### 2.1.9 Corrective measures

The operator shall implement procedures in order securing undertaking corrective measures if the specified requirements from this Permit are not accomplished. The procedures will define responsibility and authorization for initiating further investigation and corrective actions in case of reported infringements.

#### 2.1.10 Raising awareness and training

The operator shall establish procedures for identification of the needs for training and providing appropriate training for all employees who can have significant impact to the environment. The operator is obliged to keep records from the trainings.

#### 2.1.11 Communication programme

The operator shall implement a programme for raising awareness and training in order securing that the public can receive information regarding environmental performance of the Operator in any time.

#### 2.1.12 Maintenance programme

The Operator shall implement and maintain programme for maintenance of the whole plant and appropriate equipment which will affect the environment, based on the instructions given from the producers/suppliers or those that installed the equipment. Appropriate records and diagnostic tests for equipment shall be kept and support the maintenance programme. The operator shall clearly allocate responsibility for planning, management and accomplishing of all aspects from this programme to the relevant personnel (see condition 2.1.4 above).

#### 2.1.13 Control of process efficiency

The operator will establish and maintain programme in order securing appropriate process control in different operation modules. The programme will identify key indicative parameters for control of the functioning of the process, as well as methods for identification for measuring and control of these parameters. Abnormal conditions in which the process will happen will be documented and analysed in order identification of any corrective activity.

## 2.2 Raw materials (including water)

The operator, every 12 months will review the efficiency of water consumption in the installation in order finding possibilities for improving water management consumption. If there are any improvings identified, they will be implemented in Annex 2 and in the Schedule for objectives and targets for environment.

Table 2.2.1 : Raw materials (including water)		
Description	Document	Date when received
List of raw and auxiliary materials, other substances and the energy used or produced in the installation	Application 11-5441/1, Chapter IV	18.08.2008

2.2.1 All external tracks and all internal tracks with velocity higher than 3.5 m/s shall be closed. All transfer points shall regularly be maintained and controlled in order not emitting dust from the system

## 2.3 Operating techniques

2.3.1 The Permitted Installation shall, subject to the conditions of this Permit, operate using the techniques and in the manner described in the application documentation specified in Table 2.3.1 or as otherwise agreed in writing by the Responsible Authority.

Table 2.3.1: Operating techniques		
Description	Document	Date when received
Description of the installation, its technical parts and directly related activities	Application 11-5441/1 , Chapter II	18.08.2008

2.3.2 The operator shall minimize number of operational stops in the installation

2.3.3 The transportation system shall be controlled and inspected regularly, no causing pilling/dispersion of the materials or any leakage. The operator shall evident all inconsistencies and shall keep them.

## 2.4 Ground water protection

2.4.1 Raw materials, interproducts and products will be stored at appropriate places, protected from spilling and leaking. Materials shall be clearly labeled and separated.

Table 2.4.1 : Ground water protection		
Description	Document	Date when received
Material handling	Application 11-5441/1, Chapter V	18.08.2008

2.4.2 Loading and unloading of the materials will be completed at appropriate places, protected from spills and leaks.

2.4.3 The transportation vehicles and other transportation systems shall be regularly cleaned and washed

2.4.4 The operator in the storage place shall have appropriate capacity and equipment and/or appropriate absorption materials in order keeping and absorb any leakage in the installation. Once the absorption material is used, shall be stored in the appropriate place.

2.4.5 All reservoirs and pipelines will be maintained appropriate to the materials which are being transferred through or are stored in them. The intensity and the pressure of the water in all underground pipes, or other structures for transferring and containers and their resistance at water penetration or other materials which are transferred or stored in them will be tested or demonstrated by the operator. This testing will be conducted by the operator at least once on each 5 years and will be reported at Responsible Authority at every completion. This testing will be conducted according any directions given by the Responsible Authority. Written record from tests for safety and any other maintenance or reparations arising from them will be performed by the permitted installation.

2.4.6 Whole storage space for reservoirs and barrels in minimum shall be fenced locally or to have distant collection pool connected with channel which volume is not smaller than the following:

- 110% from the capacity of the biggest bowl or barrel in the frame of the fenced area
- 25% from the total volume of the substance which can be stored in the fenced area

2.4.7 Whole leakage of the substance from the surrounded area will be treated as hazardous waste until the operator doesn't prove the opposite. The total liquid waste from the surrounded areas will be directed for collecting and then appropriate and safe will be disposed to a landfill.

2.4.8 All in and out pipes, ventilation pipes and pipes for water measuring must be in the frame of the tank

2.4.9 All reservoirs, containers and barrels will be clearly marked in order their content to be clear

2.4.10 All pumps, reservoirs for storage, lagunes or other chambers for treatment in the plant from where it is possible spill of materials in quantities which can cause spills from the local or distant tanks, pools or absorbers will be equipped with alarms for high level (or detectors for oil as it is appropriate) in 18 months from the date of issuing of this permit.

2.4.11 Securing a system for collection of all leakages from pipes and all valves from all overhead pipes for transport of material, except water will be examined. This will be involved in the schedule for objectives and targets for environment as it is set in the Condition 2.1.6 from this Permit for reducing the fugitive emissions.

## 2.5 Waste handling and storage

2.5.1 According the conditions from this Permit, the Operator will handle and store waste as it is described in the Application or as otherwise agreed in written with the Responsible Authority.

Table 2.5.1: waste handling and storage		
Description	Document	Date when received
Description of the managing with solid and liquid waste in the installation	Application11-5441/1, Chapter V.2	18.08.2008

2.5.2 The Operator shall secure that waste before conveying by other person, will be appropriate packed and will be labelled according the National, European and any other standards relevant for the appropriate marking.

2.5.3 In case the Operator changes the company responsible for undertaking the waste, it shall report it in the annual report on environment.

Table 2.5.2: Waste stored at the location			
Description of waste	Storage place in the location	Means of storage	Conditions for storage
Waste accumulators	Accumulator station	In closed and good airconditioned venue	Recycled by Ival Trejd
Fluorescent lamps	Maintenance of freezers (changing of neons) - Pivara Skopje- In the Factory	Containers	Landfil Drisla
Used machine oils	Production of beer and NAB (maintenace of the machines) - Energy – work of compressors; - transformers; - maintenance of vehicles (maintenance of fork trucks)	Barrels	Recycled by AUTO HAUS ZAKOVSKI
Waste tires from fork trucks	maintenance of vehicles (maintenance of trucks)	Containers	Recycling by Sirovina Miladinovci
Dry treber	Production process of beer	Containers/bags	Producers of diary products
Wet treber			
Dry yeast			

PVC can of 30 l.	Production proces of beer and NAB (usage of raw materials in production process)	Containers	Sirovina Miladinovci, EKOCIRKON
PVC balon od 22 l.	Production of NAB and beer	Containers	
PVC ballon od 25 l	Production of NAB and beer	Containers	
PVC ballon od 50 l	Production of NAB and beer	Containers	
PVC ballon od 100 l.	Production of NAB and beer	Containers	
PVC ballon od 200 l	Production of NAB and beer	Containers	
Crate old type 1/20 (Beer)	Production of beer	Special place for that purpose	GEPLASTIK Gevgelija
Small crate 1/24 (NAB)	Production of NAB	Special place for that purpose	
Plastic bags	Production of NAB and beer	Containers	Recycling by PAKOMAK
PET	Production process of beer and BAP ( waste from production and bottles)	Containers	
Paper /cardboard	Production process of beer and (use of raw materials in production; Factory site)	Containers	
Paper barrel 30 kg	Production of NAB and beer	Containers	Sirovina Miladinovci, EKOCIRKON and reuse by employees
Paper barrel 50 kg	Production of NAB and beer		Sirovina Miladinovci, EKOCIRKON and reuse by employees
Glass	Production of beer and BAP – waste from washing and filling of bottles	Concrete boxes for glass	PAKOMAK SFR GREJAC Srbija
Metal barrels 160-200l.	Production process of beer and BAP	Special place for that purpose	Recycled by Sirovina Miladinovci, EKOCIRKON
ALUMINIUM-can	Production process of beer and BAP	Containers	Recycled by Sirovina Miladinovci, EKOCIRKON

Other pallets	Production process of beer and BAP	Special place for that purpose	PAKOMAK, AS BOSFOR and employees
Wooden frames	Production process of beer and BAP	Special place for that purpose	
Euro palets-rubbish	Production process of beer and BAP	Special place for that purpose	
Beer pallets – rubbish	Production process of beer and BAP	Special place for that purpose	
Other pallets-rubbish	Production process of beer and BAP	Special place for that purpose	
Waste wood	Production process of beer and BAP	Special place for that purpose	
Waste iron from 3mm	Production process of beer and NAB (maintenance of the equipment)	Containers	Recycled by Sirovina Miladinovci, EKOCIRKON
Storage of beer with expired date	Products returned from retail	Stored at original package	Lanfil Drisla
Storage of NAB expired date	Products returned from retail	Stored at original package	
Containers with garbage	Factory site-Skopje Pivara	Containers	
Waste from food	cantine	Containers	
Tonnors from printers and copiers	SKOPJE PIVARA	Containers	Recycled by Sirovina Miladinovci

2.5.4 Waste shall be stored in designated areas, protected as may be appropriate, against spillage and leachate run-off. The waste is to be clearly labelled and appropriately segregated.

2.5.5 Special attention shall be given to the transformer oil from the condensators which is containing polychlorinated byfeniles PCB, and shall be strictly adhered to the regulations for temporary protected storing and clearly to be labelled. The same procedure shall be applied to the equipment contaminated with PCB.

2.5.6 Unless approved in writing by the Responsible Authority, the Operator is prohibited from mixing a hazardous waste of one category with hazardous waste of another category or with any other non-hazardous waste. Characterization of waste is done by the operator according Waste list. Characterization for which is needed additional analysis from accredited laboratory, will be done by the Operator according the experiences of the systems where the Operator comes from.

2.5.7 As part of the ARE, the Operator shall every 12 months submit plan where will be attached storage places for waste

2.5.8 Not later than 3 months from the date of issuance of the Permit, the Operator shall prepare plan for waste management, which will be approved by the Responsible Authority, where conditions for storage, transport and disposal will be included and if needed will be provided copies from the Contract for selling and undertaking the waste

## 2.6 Processing and waste disposal

2.6.1 Disposal and recycling of waste on appropriate place will be performed only in accordance with conditions of this permit and in compliance with appropriate National and European regulation and protocols.

Table 2.6.1: Utilization and waste disposal		
Description	Document	Date when received
Waste disposal in the installation (own landfill)	Application 11-5441/1, Chapter V.3	18.08.2008

2.6.2 Waste sent off from the site for recovery or disposal shall only be conveyed to a waste contractor. Waste shall be transported from the site of the activity to the site of recovery/disposal in a manner which will not adversely affect the environment and in compliance with relevant National and European legislation.

2.6.3 For activities related to operations for waste management on the site, shall be prepared complete records, which will be made available for inspection by the Responsible Authority. Elements that shall be taken into consideration for records are given at condition 3.1.6

## TRANSFER OF PERMIT

Before completing the full or partial transfer of the permit to another person should be made a joint application for transfer of the permit by current and the proposed owner, pursuant to Article 118 of the Environment. If the license authorizes the carrying out of special activities in the field of waste management, it is necessary to submit a certificate for passing the exam for waste management for the person responsible for that activity.

## 2.7 Energy efficiency

2.7.1 The operator shall conduct audit of the energy efficiency in the installation in period of not more than 1 year from the date of issuance of this permit. Energy efficiency audit shall be repeated on intervals as prescribed by the Responsible Authority. The scope of the inspection shall be agreed with the responsible authority.

Table 2.7.1: Energy efficiency		
Description	Document	Date when received
Electricity consumption for 2007	Application 11-5441/1, Chapter IV	18.08.2008

2.7.2 The audit shall identify all possibilities for reducing energy consumption and its efficiency, and recommendations from the audit will be incorporated in the report stated in the Annex 2.

## 2.8 Accident prevention and emergency response

2.8.1 The Operator shall, within 1 year of the date of grant of this permit, ensure that a documented Accident Prevention Policy is in place which will address the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This policy shall be reviewed on each 12 months and shall be updated according the needs.

Table 2.8.1: Accident prevention and emergency response		
Description	Document	Date when received
Description of other preventive measures planned	Application 11-5441/1, Поглавје XII	18.08.2008
Accident prevention and emergency response	Application 11-5441/1, Поглавје XII.1	18.08.2008

2.8.2 Within the 6 months of the date of issuance of this Permit, the Operator shall secure that the Procedure for emergency is functioning. This procedure shall include prescription for minimizing the effects to the environment in any situation. This procedure shall be reviewed every 12 months and shall be updated according the needs.

2.8.3 The operator shall conduct risk assessment in order determination whether the installation needs plant for water retention that will be used against fires. The operator shall submit the assessment, findings and recommendation related to water to the

Responsible Authority enclosed with appropriate report in 6 months from the date of issuance of this Permit.

2.8.4 In case of significant risk from discharge of contaminated water, the Operator based on the findings and risk assessment shall prepare and implement, in agreement with Responsible Authority appropriate programme for risk management. The Programme for risk management shall be fully implemented in 12 months from the date of issuance of notification by the Responsible Authority. With the construction of the waste water treatment plant and it functioning, the Operator will minimize the risk of discharge the contaminated water.

2.8.5 The Operator shall take into consideration all guidelines prepared for the industry by the Responsible Authority.

2.8.7 In case of emergency the Operator shall immediately:

- ✓ Isolate the source of any emissions
- ✓ Conduct investigation for identification the character, source and reason what caused the emission
- ✓ Estimate environmental pollution, if the accident caused the pollution
- ✓ To identify and conduct the measures for minimizing of the emissions/not functioning and effects that follow
- ✓ Note the date and place of accident
- ✓ Report to the Responsible Authority and other relevant stakeholders

2.8.8 Within 1 month from the accident, the Operator shall submit proposal to the Responsible Authority with main aim:

- Identification and establish measures for avoiding recurrence of the accident
- Identification and establishing any other activities for rehabilitation

## 2.9 Noise and vibrations

2.9.1 Within 12 months the operator shall prepare programme for noise issues in the installation. The programme shall be prepared in accordance with the methodology which is specified in the guidelines issued by the Responsible Authority, for all sources stated in the IPPC application, with special attention to impulsive noise.

Table 2.9.1: Noise and vibration		
Description	Document	Date when received
Noise impact	Application 11-5441/1, Annex VII. 8	18.08.2008

2.9.2 The operator shall prepare a programme for reducing the emission from noise. The programme shall emphasize specific aims and time frame for its preparation, as well as modification options, updating or switch. The operator shall submit the programme to the Responsible Authority within 6 months from the date of issuance of this permit. Within 9 months shall be submitted the report for implementation of the programme. The operator shall continuously carry out measurements for noise in and around installation.

## 2.10 Monitoring

2.10.1 Within 6 months from the date of issuance of this permit, the operator shall obtain:

secure access to measurement point, in order enabling monitoring which will be in compliance with emission points stated in Annex 2, unless otherwise agreed in the Annex and secure access to other points for sampling/monitoring when it will be requested by the Responsible Authority

Table 2.10.1: Monitoring		
Description	Document	Date when received
Monitoring locations for sampling	Application 11-5441/1 , Chapter IX	18.08.2008

2.10.2 In the operator yard there are wells which are not in use. Before putting into use they shall be in compliance to the law regulation and the Operator shall inform the Responsible Authority in written.

2.10.3 If the Operator decides to start using the well after notification of the Responsible Authority, within 3 months from the date of notification, the Operator shall secure information for methods for sampling and analysis from the monitoring. The methods shall be approved by the Responsible Authority.

2.10.4 The sampling for the analysis of all pollutants as well as the referent measuring methods for calibration of the automation systems for measuring shall be in compliance with CEN standards. If CEN standards are not easily available, it is recommended to use the ISO, the national or other international standards that will secure collecting data with required quality.

2.10.5 All automatic systems for measuring/monitoring and tools for sampling shall function constantly (except during maintenance and calibration) or if it is not otherwise agreed with the Responsible Authority. In case when some continuous monitoring is not functioning, the Operator shall as soon as possible get in touch with the Responsible Authority and alternative solution shall be given for sampling and monitoring with putting in operation special (alternative) equipment. Approval for using this type of equipment in cases different than emergency shall be approved by the Responsible Authority.

2.10.6 The equipment for monitoring and analysis shall be appropriately handled and same also to be maintained as needed, so the monitoring will appropriately show the emissions or discharges and will meet the abovementioned standards.

2.10.7 Frequency, methods and scope of the monitoring, method of sampling and analysis, as prescribed in this Permit can be changed in accordance to the Responsible Authority, following the assessment of the test results.

2.10.8 Regularly shall submit report for completed measurement from the monitoring that can perform any consultancy company. That report shall be regularly submitted to State Environmental Inspectorate at MoEPP.

## 2.11 Closure of the activity

After closure of the activity designated in this Permit, the Operator shall dispose, secure and prepare for final disposal/recycling all materials that are polluting the environment.

Table 2.11.1: Closure of the activity		
Description	Document	Date when received
Remediation, closure of the activity, restarting the work and care after termination of activities.	Annex no 11-5441/1, Chapter XIII	18.08.2008

#### 2.11.1 Plan after closure of activities and management of remains

Within 24 months, the Operator shall prepare detailed plan for financial implications for closure of activities or closing the whole or part of the installation. The plan shall be submitted to the Responsible Authority.

The plan shall be revised every 12 months and for proposed changes shall notify the Responsible Authority and changes shall be part of the ARE. It shouldn't be implemented any change/amendment without previous reporting to the Responsible Authority.

#### 2.11.2 Plan for management of remaining in minimum shall contain the following:

- Declaration for scope of the plan
- Criteria which define successful closure of activities or part of them, which secure minimum impact to the environment
- Programme for achieving the abovementioned criteria
- if possible the plan to involve test programme which will demonstrate successful implementation of the plan for closure of activities
- financial details for plan and how they are going to be secured

2.11.3 Within 3 months from executing the plan for management of residues, the Operator shall submit to the Responsible Authority final report for confirmation which will include certificate for completion of it. The Operator shall execute all needed tests and analysis, including certificate, in the way that is requested by the Responsible Authority in order demonstration that there is no further risk to the environment.

2.11.4 As part of the ARE, the Operator shall secure annual report for the undertaken or predicted measures in order prevention of environmental damage and to predict funds needed for remediation which will follow after final closure of the work of the installation and after incidents.

2.11.5 The Operator shall secure clear and detail risk assessment for environmental liability, prepared by independent consultant that will encompass liabilities/responsibilities from past and current activities. This assessment will involve liabilities/responsibilities and costs for completion of the PRMCDI. Within 12 months from the date of issuance of this Permit, the Operator shall submit report for this assessment to the Responsible Authority for approval. RAEI will be revised according to the needs, in order encompassing all eventually significant changes of the installation, but at least every 3 years after issuance of this permit; result from the audit will be encompassed in the ARE.

2.11.6 As part of the measures stated in the condition 2.11.4, the Operator shall secure finance for covering the responsibilities from condition 2.11.5. Financial compensation will be reviewed and revised according to the needs, but at least at every 12 months. Evidence for changes or revision of the financial compensation will be part of the annual report stated in the condition 2.11.4.

## **2.12 Installations with several operators**

2.12.1 The installation, subject to this permit, is managed only by one operator.

## 3 Records

3.1.1 A record (a "Specified Record") shall be made of:

- Any malfunction, breakdown or failure of plant, equipment or techniques (including any Short term and long term remedial measures) that may have, has had or might have had an effect on the environmental performance of the Permitted Installation. These records shall be kept in a log maintained for that purpose;
- All monitoring and sampling taken or carried out and any assessment or evaluation made on the basis of such data.

3.1.2 There shall be made available for inspection by the Permitting Authority at any reasonable time:

- Specified Records;
- Any other records made by the Operator in relation to the operation of the Permitted Installation ("Other Records").

3.1.3 A copy of any Specified or Other Records shall be supplied to the Permitting Authority on demand and without financial charge.

3.1.4 Specified Records and Other Records shall:

- be legible;
- be made as soon as possible;
- Indicate any amendments which have been made and shall include the original record wherever possible.

3.1.5 The Operator shall keep the Specified Records and Other Records for the time of the validity of this Permit and 5 years after its termination.

3.1.6 For all waste received at or produced from the Permitted Installation, the Operator shall record (and shall retain such records during the validity of the this permit, as well as 5 years after the its expiration) for:

- ✓ Its composition, or as appropriate, description;
- ✓ The best estimate of the quantity produced;
- ✓ Its disposal routes; and
- ✓ The best estimate of the quantity sent for recovery.
- ✓ Quantity in tones as well as labeling of the waste imported or sent outside location for disposal/recycling according European Waste List
- ✓ Names of person/company responsible for transportation of waste, as well as details for received permit for waste collection, if needed (including the responsible Authority that issued the Permit, together with the registration number of the vehicle)
- ✓ Details for final destination for disposal/recycling of waste and its relevance for accepting the waste, including Permit and details from the Permit for that activitt as well as the Responsible Authority that issued the Permit
- ✓ Written confirmation for acceptance and disposal/treatment of hazardous waste sent outside the location
- ✓ Details for all wastes exported outside the location for treatment and are classified as green waste in accordance to the EU regulations for transodary shipment of

waste (EEC 259/1993 with amendments). Explanation for this type of classification shall be part of the record

- ✓ Details for all rejected shipments
- ✓ Details for all approved mixing of waste
- ✓ Quantities for labeling type of waste which are recycled or disposed in the location, according the European Waste List (Official Gazette 100/5). Characterization of this waste for which is needed additional analysis from accredited laboratory (until it is being established in Republic of Macedonia), will be performing by the Operator according the experiences from the systems where the Operator belongs.

3.1.7 A record shall be made at the Permitted Installation of any complaints concerning the Installation's effect or alleged effect on the environment. The record shall give the date of complaint, time of complaint, a summary of any investigation and the results of such investigation. Such records shall be made in a log kept for this purpose.

3.1.8 The Operator shall as a minimum keep the following documents at the site and this documentation shall be available to the Permitting Authority for inspection at all reasonable times:

- ✓ the permits relating to the installation;
- ✓ the current Programme for EMS for the installation;
- ✓ the previous year's AER for the installation;
- ✓ records of all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this permit and all other such monitoring which relates to the environmental performance of the installation;
- ✓ all correspondence with the Permitting Authority;
- ✓ up to date site drawings/plans showing the location of key process and environmental infrastructure, including monitoring locations and emission points;
- ✓ up to date Standard Operational Procedures for all processes, plant and equipment necessary to give effect to this permit or otherwise to ensure that standard operation of such processes, plant or equipment does not result in unauthorised emissions to the environment.

## 4 Reports

4.1.1 All reports and notifications required by this Permit shall be sent to the Permitting Authority.

4.1.2 Reports shall be submitted as summarized in Appendix 2, or any other way mentioned in this Permit.

4.1.3 All reports shall be signed by authorised person from the installation.

4.1.4 Not later than 31st of March each year, the Operator shall submit to the Responsible authority, ARE which covers previous calendar year. This report shall be approved by the Responsible Authority and needs to include as minimum, information specified in following Table: Content of the Annual Environmental Report from this Permit that shall be prepared with relevant guidelines which are issued from the Responsible Authority.

4.1.5 The Operator shall prepare and maintain RETPM for the location. Substances which need to be included in RETPM need to be approved by the Responsible Authority each year by reference list which will be specified in Guidelines for ARE by the Responsible Authority. RETPM needs to be prepared in accordance with any relevant Guidelines issued by Responsible authority and have to be submitted as part of the ARE.

### Content of the Annual Environmental Report

Emissions from the installation. (submitting of RETPM + compliance with ELV)  
 Records for waste management  
 Summary of the raw material consumption  
 Summary of notes (complaints)  
 Schedule for goals and targets for environment.  
 Environmental management program – report from previous year  
 Environmental management program – proposal for current year  
 Register of pollution emissions - report from previous year  
 Register of pollution emissions – proposal for current year  
 Summary of the Report for noise monitoring  
 Summary of the Report for environment monitoring  
 Report for testing and inspection of reservoirs and pipelines.  
 Summary of declared incidents  
 Summary of report for energy efficiency  
 Report on the assessment of the efficient use of raw materials in processes and the reduction in waste generation.  
 Report for the progress which is made and solutions for minimising of water demand and volume of discharge of industrial water.  
 All other issues determined by the Responsible Authority

## 5 Notifications

### 5.1.1 Operator will notify Responsible Public authority immediately:

- ✓ When will notice that emission of some substance is above the limit or criteria of this permit, mentioned in relation to that substance;
- ✓ when will notice fugitive emission which caused or may cause pollution, unless the emitted quantity is too low that cannot cause pollution;
- ✓ when will notice some irregularities; malfunction or stopping of the work of the plant or techniques, which caused or have potential to cause pollution; and
- ✓ any other unwanted activity which will cause or have the potential to cause pollution.
- ✓

5.1.2 The Operator shall submit written confirmation to the Responsible Authority for any notification under condition 5.1.1 according to Appendix 1 from this permit, by sending data mentioned in Part A from Appendix 1 from this permit in 24 hours from this notification. The Operator shall submit more detailed data mentioned in Part B from the same appendix, as soon as possible.

5.1.3 The Operator shall give written notification as soon as possible, for each of the following:

Permanent closing of the work of any part or of the whole installation, for which the permit is issued;

Closing of the work of any part or whole installation for which the permit is issued, with possibility to be more than 1 year; and

Restarting of the work of any part, or of the whole installation for which this permit is issued, after closing according notification 5.1.3 (b).

5.1.4 The Operator shall give written notification in 14 days before their appearances, for the following:

- Any changes in the company Name of the operator, registered name or the address of registered office;
- Changes of the data for the Operator Holding Company (including data for holding company when the operator becomes part of the holding)
- Activities when the operator goes bankrupt make voluntary agreement or have been damaged.

5.1.5 The Operator shall provide and updated regularly bulletin board for the installation, in order being legible to persons outside of the main entrance of the installation. Minimal dimensions of the board need to be 1200 mm x 750 mm.

On the board shall be clearly stated:

- Name and telephone number of the installation;
- Regular working time;
- Name of the Permit Owner;
- Contact phone for emergencies outside of working time;
- Permit's reference number; and
- Where may be obtained information for the environment concerning this installation.

Installation plan which clearly identifies the location of each warehouse and place for treatment which should be shown close to entrance of the object. The plan should be placed on permanent material and will be legible in any time. The plan should be amended, if crucial changes are made in the installation.

## 6 Emissions

### 6.1 Air Emissions

Table 6.1.1: Emission points to the air		
Emission points reference/description	Source	Location of the emission point
A1	Steam boiler, type BK6 100 – not in function	Coordinates 7 539263 E, 4 650675 N
A2	Steam boiler, type ORO 10SA-4948	Coordinates: 7 539263 E, 4 650675 N
A3	Steam boiler, type ORO 255 <sup>a</sup>	Coordinates: 7 539263 E, 4 650675 N

6.1.1 Emissions to the air from the emission point/points specified in the Table 6.1.1 (determined in the application as main emission) shall arise from the source/sources which are specified in that table.

6.1.2 Emissions to the air specified in the Table in Appendix 6 from the Application (determined as lower emissions) needs to arise from the source(s) which are specified in that Table.

6.1.3 Emission limits to the air for parameter(s) and emission points mentioned in table are not going to be exceeded in the relevant time period.

6.1.4 Emission limits to the air for parameter(s) and emissions points mentioned in table in Appendix 6 from the Application (determined as lower emissions) are not going to exceed standard emission limit values.

Table 6.1.2: Emission limit values to the air			
Parameters	Mark of the emission point A2 A1 Steam boiler type BK6 100 – not in operation 8.2MW		Frequency of the monitoring
Flow	13650 m <sup>3</sup> /h		
	From (date)	Concentration (mg/Nm <sup>3</sup> ) MAC	
Nitrogen oxides (as NO <sub>2</sub> ) ( kako NO <sub>2</sub> )	From date of issuing the permit	350	Twice per year
Carbon monoxide (CO)	From date of issuing the permit	100	Twice per year

Dust	From date of issuing the permit	5	Twice per year
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Minimum height of the stack is 13m above the ground.

Emission limits values for burning in the furnaces/combustors of gaseous fuels with thermal power of the firing system of 1 to 50 MW, are prescribed in Appendix 3, point 6, table 6 from the Rulebook for Emission limit values and allowed level of emissions and types of pollution substances in the flue gases and steams that are emitted by the stationary sources to the air (Official Gazette of RM no. 141/10 from 25.10.2010).

Table 6.1.3: Emission limit values to the air			
Parameters	Mark of the emission point A2 A2 Steam boiler type BK6 100 ORO 10SA-4948 2.1-6.5 MW		Frequency of monitoring
Flow	13650 m <sup>3</sup> /h		
	From (date)	Concentration (mg/Nm <sup>3</sup> ) MAC	
Nitrogen oxydes (as NO <sub>2</sub> )	From the date of issuing the permit	350	Twice per year
Carbon monoxide (CO)	From date of issuing the permit	100	Twice per year
Dust	From date of issuing the permit	5	Twice per year

Minimum height of the stack is 13m above the ground.

Emission limits values for burning in the furnaces/combustors of gaseous fuels with thermal power of the firing system of 1 to 50 MW, are prescribed in Appendix 3, point 6, table 6 from the Rulebook for Emission limit values and allowed level of emissions and types of pollution substances in the flue gases and steams that are emitted by the stationary sources to the air (Official Gazette of RM no. 141/10 from 25.10.2010).

Table 6.1.4: Emission limit values to the air			
Parameters	Mark of the emission point A3 A3 Steam cotel type ORO 255A Natural gas 16,3 MW		Frequency of monitoring
Flow	21279 m <sup>3</sup> /h		
	From (date)	Concentration (mg/Nm <sup>3</sup> ) MAC	
Nitrogen oxydes (as NO <sub>2</sub> )	From date of issuing the permit Od denot na izdavawe na dozvolata	350	Twice per year dva pati godi{no

Carbon monoxide (CO)	From date of issuing the permit	100	Twice per year
Dust	From date of issuing the permit	5	Twice per year

Minimum height of the stack is 14.6m above the ground.

Emission limits values for burning in the furnaces/combustors of gaseous fuels with thermal power of the firing system of 1 to 50 MW, are prescribed in Appendix 3, point 6, table 6 from the Rulebook for Emission limit values and allowed level of emissions and types of pollution substances in the flue gases and steams that are emitted by the stationary sources to the air (Official Gazette of RM no. 141/10 from 25.10.2010).

6.1.5 The operator shall conduct monitoring of the parameters mentioned in table 6.1.2 and 6.1.3 of the emission point at the minimum frequency mentioned in the Tables.

### **MONITORING OF THE EMISSIONS IN THE AIR AND AMBIENT AIR** **Monitoring of the emissions and points for sampling**

#### ➤ **Emissions in the air**

**Reference number of emission point:** A1 (emissions from first steam boiler from type BK6 100) – not in operation

Parameter	Frequency of monitoring	Access to measuring points	Method of taking samples	Method of analysis /technique
Temperature	Twice per year (if it is put in operation depending of the functioning of the boiler)	Accessible (Access is enabled by appropriate stairs)	Sample	Measurements are performed by authorised company according relevant laws (Official Gazette of RM 141/2010)
O <sub>2</sub>				
CO				
SO <sub>2</sub>				
NO <sub>x</sub>				
CO <sub>2</sub>				
Volume flow of gas				
Average velocity of gas				
Mass flow of gas				

**Reference number of the emission point: A2** ( from second steam boiler from type ORO 10SA-4948)

Parameter	Frequency of monitoring	Access to measuring points	Method of taking samples	Method of analysis /technique
Temperature	Twice per year (depends on the work of the boiler)	Accessible (Access is enabled by appropriate stairs)	sample	Measurements are made by authorised company according relevant laws (Public Newspaper of RM 141/2010)
O <sub>2</sub>				
CO				
SO <sub>2</sub>				
NO <sub>x</sub>				
CO <sub>2</sub>				
Volume flow of gas				
Average velocity of gas				
Mass flow of gas				

**Reference number of emission point: A3**(Discharge from steam boiler type ORO-255A)

Parameter	Frequency of monitoring	Access to measuring points	Method of making samples	Method of analysis /technique
Temperature	twice per year (depends on the working of the boiler)	Accessible (Access is enabled by appropriate stairs)	Taken sample	Measurements are performed by authorised company according relevant laws (Public Newspaper of RM 141/2010)
O <sub>2</sub>				
CO				
SO <sub>2</sub>				
NO <sub>x</sub>				
CO <sub>2</sub>				
Volume flow of gas				
Average velocity of gas				
Mass flow of gas				

**Monitoring of the land quality****Reference number of monitoring point: G1** (in production of NAB)

Parameter	Frequency of monitoring	Access to monitoring points	Method of taking samples	Method of analysis / technique
Hg, mercury	Yearly	Easy accessible	Taken sample	Measurements are made by authorised company according relevant laws (Official Gazette of the city of Skopje 22/83 and 14/87)
Pb, Lead				

**Reference number of the monitoring point: G2** (in beer production)

Parameter	Frequency of monitoring	Access to monitoring points	Method of taking samples	Method of analysis / technique
Hg, mercury	Yearly	Easy accessible	Taken sample	Measurements are performed by authorised company according relevant laws (Public Newspaper of city of Skopje 22/83 and 14/87)

➤ **Emissions to sewer****Reference number of emission point: WW** (discharge to city sewer-Skopje)

Parameter	Frequency of monitoring	Access to monitoring points	Method of taking samples	Method of analysis / technique
pH value	Quarterly	Easy access	Taken sample	Measurements are made by authorised company
Total dry residue				

Dissolved materials				according relevant laws (Public Newspaper of RM 81/2011)
Suspended materials				
COD $\text{KmnO}_4$				
BOD- 5				

➤ **Monitoring of the noise level**

**Reference number of the monitoring point: AN1** (in production of NAB – North side)

Parameter	Frequency of monitoring	Access to monitoring points	Method of taking samples	Method of analysis / technique
Noise (dB)	Yearly	Easy access	Taken sample	Measurements are performed by authorised company according to Rulebook of emission limit values for noise in environment (Official Gazette of RM 147/2008)

**Reference number of monitoring point: AN2** (in production of NAB – east side)

Parameter	Frequency of monitoring	Access to monitoring points	Method of taking samples	Method of analysis / technique
Noise (dB)	Yearly	Easy access	Taken sample	Measurements are performed by authorised company according to Rulebook of emission limit values of noise levels in environment (Official Gazette of RM 147/2008)

**Reference number of the monitoring point: AN3** (in production of beer – Boiler Plant)

Parameter	Frequency of monitoring	Access to monitoring points	Method of taking samples	Method of analysis / technique

Noise (dB)	Yearly	Easy accessible	Taken sample	Measurements are performed by authorised company according to Rulebook of emission limit values for noise in environment (Official Gazette of RM 147/2008)
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6.1.6 The Operator shall prepare Programme for identification and reducing of fugitive emissions, which Programme shall be submitted to Responsible Authority. This Programme shall be incorporated in the Programme for environmental management. The Programme shall include:

- Inventory of fugitive emissions in the installation, if any;
- Type of measurement and assesment (with determing the detection limits);
- Frequency of measurement: twice per year of 6 months;
- Type of coomponents which should be checked; at least transport, storage, reservoirs

6.1.7 Emission limit values in the atmosfere, in thid Permit shall be interpreted in the following way:

Continuous measurement:

- None of the 24 hours average value should exceed the emission limit value;
- 97% of all 30 minutes average values measured continuously in one year period should not exceed 1,2 times more than the emission limit value;
- None of the 30 minutes average value should be twice larger than the emission limit value.

6.1.8 Concentration limits and flow volume for emissions in the atmosphere specified in this permit shall be achieved without including the air for dilution and shall be based on the gas volume under the standard conditions of:

In case of gases that not originate from combustion:

- Temperature of 273 K, Preassure 101.3 kPa (without correction of the content of the oxygen and water).

In case of gases from combustion:

- Temperature of 273 K, Preassure 101.3 kPa, dry gas; 3% oxygen for liguid and gas fuels; 6% oxygen for solid fuels

6.1.9 Operator should provide list of all emission points (basic and smaller).

6.1.10 within 3 months from the date when this permit is issued, the Operator shall prepare and submit to the Responsible Authority complete Air Dispersion Model. Air Dispersion Model shall refer to current emission as well as the emissions predicted in the permit.

6.1.11 The Operator shall prepare and submit to the Responsible Authority analytical measurements with description of the method used for taking samples for dust.

6.1.12 Every new installed electrostatic filter shall satisfy the standards for ambient air quality

### 6.1.13 Air disperzion modeling

The Operator shall provide air disperzion modeling for parametters NO<sub>x</sub> and SO<sub>2</sub> from all main emission points.

The Air Dispersion Modelling shall be submitted to the Responsible Authority not later than 01.06.2012.

Air disperzion modeling shall contain input data as follows:

**Technical information and information for discharges:**

- Location (coordinates, GIS – Map info, or other programm)

**Emissions**

- Chemical compounds (NO/NO<sub>x</sub>, SO<sub>2</sub>, CO, dust)
- Size of dispersed particles
- Yearly time series

Working hours of the installation

### Meteorological data (three years data series)

T2M	Temperature in °C
HUM	Relative humidity in %
CLOU	Total cloudiness, code 0,...,9 (octas)
TDEW	Dew-point temperature in °C
TWET	Wet-bulb temperature in °C
VISI	Visibility in meters
PRES	Sea level pressure in hPa
WWCODE	Present weather, code in SYNOP message 0,...,99
W1CODE	Past weather, code in SYNOP message 0,...,9
W2CODE	Past weather 2, code in SYNOP message 0,...,9
NH	Amount of lowest clouds, code 0,...,9 (octas)
CL	Type of middle clouds, code 0,...,10
HH	Height of the lowest clouds in meters
CM	Type of middle clouds, code 0,...,10
CH	Type of high clouds, code 0,...,10
WIDD	Wind direction in degrees (meteorological)
WIMS	Wind speed in m/s
GROUND	State of ground, code 0,...,9
PREC	Precipitation in mm/period, period may be 12 hours

6.1.14 Installation Air emissions should not have unpleasant odor outside of the installation borders.

6.1.15 Emissions to the air, except steam and condensed steam water, should not contain drops of persistent fog and persistent smog.

6.1.16 Emissions should not contain visible smoke.

## **6.2 Emissions to land**

6.2.1 The road infrastructure in the installation shall be maintained and shall not be allowed waste dust from the vehicles that are in operation within the installation. Waste and the dust shall be removed immediately.

6.2.2 Within 6 (six) months from the date of issuing the permit, the Operator shall prepare and maintain structural program for maintenance and servicing of vehicles and equipment. This program should be supported by appropriate system for evidence and diagnostic testing.

6.2.3 It is not allowed storage of waste in the installation more than one year period, if the waste should be disposed, or in the period longer than 3 (three) years if the waste is for treatment and processing, unless it is permitted with this permit.

6.2.4 Procedures for processing/disposal of waste which is not mentioned in Appendix 3 shall be agreed with the Responsible Authority before their realization.

### **6.3 Emissions to water (other than emissions to sewer)**

No emissions to water.

## 6.4 Emissions to sewer

6.4.1 The Operator, when starting the work of the Waste Water Treatment Plant has defined location for monitoring and marking of the waste water before discharge into the sewer.

Table 6.4.1 Emission point in the sewer		
Marking of the emission point	Source	Sewer
WW	Southwest side of the Pivara	2.800 m <sup>3</sup> /day (maximum)

Table 6.4.2 Emissions limits values in sewer according rulebook after treatment of waste water for discharge into the sewer			
Temperature 0C	40	daily	
pH	6.5-9.5	quarterly	pH electrode/meter
Suspended particles (total)	-	quarterly	Gravimetry
Dry residue from filtered water	-	quarterly	Standard method
BOD5	250	quarterly	Standard method
COD5	700	quarterly	Standard method

Emissions limit values in sewer are prescribed according article 5 point 2 and Appendix 2 Part 2 tables 2, part5 table 5, from the Rulebook for conditions, method and emission limit values for discharge of waste water after the treatment, method of calculation, having into consideration special requirements for protection of protected zones Official Gazette of RM no.81/11 from 15.06.2011.

Prescribing the emissions limit values into the sewer for quality of waste water discharged of the WWTP of Pivara Skopje AD Skopje, in the future will be subject of agreement between Skopje Pivara and operator which will manage the waste water treatment plant of city sewer of City Skopje.

Table 6.4.3 Emissions limit values in sewer according BAT for waste water treatment for discharge in the sewer			
Temperature 0C	40	daily	
pH	5.5-9.5	quarterly	pH electrode/meter
Suspended particles (total)	200	quarterly	Gravimetry
Dry residue in filtered water	500	quarterly	Standard method
BOD5	250	quarterly	Standard method
COD5	500	quarterly	Standard method

6.4.2 There should be no emissions into the sewer from the installation for which this permit is issued, of any substance prescribed for waste water which is discharged into sewer for which no emission limit values are prescribed in the table 6.4.2, unless for concentrations not larger than those containing already into the sewer.

6.4.3 There will be no discharge of any substances which may cause damage to the sewer or may have impact to its maintenance.

## **6.5 Heat emissions**

6.5.1 There is no thermal discharge with environmental impact. .

## 6.6 Noise emissions and vibration

6.6.1 Noise emissions from location shall be in compliance with the standards prescribed with national legislation (Decision for determining in which cases and under which conditions breaking the peace of citizens is considered).

TABLE VII.8.1 Assessment of ambient noise

	National coordinating systems	Sound pressure levels		
	(5 North, 5 East)	L(A) <sub>eq</sub>	L(A) <sub>10</sub>	L(A) <sub>90</sub>
<b>1. Limits of the installation</b>				
<b>Place 1: Coca Cola Plant (north) AN1*</b>	ND**	58,4 dB	Np	np
<b>Place 2: Coca Cola Plant (east) AN2*</b>	ND	65,6 dB	Np	np
<b>Place 3: In front of object Boiler plant – AN3*</b>	ND	65,7 dB	Np	np
<b>Locations sensitive of noise</b>	ND			
<b>Place 1:</b>				
<b>Place 2:</b>				
<b>Place 3:</b>				
<b>Place 4:</b>				

\*AN1, AN2, AN3 are symbols for marking these measurement places in appendix II.2 Map with disposition of location.

\*\*ND - No data

<b>Table: 6.5.1 Noise emission limit values dB(A)</b>	
During day	During night
70	60

6.6.2 Noise emission limit values are prescribed according article 3 from the Rulebook for noise emission limit values levels in environment Official Gazette of RM no. 147/08 from 26.11.2008.

6.6.3 The Operator shall make reviews of the noise in the location every 12 months. The Programme for review of noise needs to be according best practices in EU.

6.6.4 Noise from the installation should not to lead to increasing of the level of noise pressure (Leg,T) measured in locations which are sensitive to noise in the installation which exceed the emission limit values prescribed in the Rulebook of noise emission limit values in environment (Official Gazette 147/2008).

## 6.7 Emissions of vibration

There are no emissions of vibration which will have environmental impact

## 7 Transfer to Waste Water Treatment Plant

## 8 Off site conditions

## 9 Improvement programe

9.1 The Operator has incorporated Improvement Programe with the predicted measures: Construction of Waste water treatment Plant (WWTP), mentioned in Table 9.1.1, which construction started in 2010, and finished at 2011. Preparatory activities, such as preparation of Project documentation, obtaining appropriate licenses and purchase of equipment are completed in the period 2003-2010.

Waste water at the end of the WWTP is monitored:

- On daily basis in laboratory of the WWTP;
- Weekly in the Central laboratory in Skopje Pivara;
- Quarterly in accredited laboratory for ecological examination

Number	Measure Mepka	Annual expense	Amount (MKD)	Amount (EUR)
1. 1. Waste water treatmant Plant	Preparation of Project documentation, obtaining appropriate licenses and purchase of equipment, Construction of Waste water treatment Plant	2003- 2010 2011	76,741,104 86,925,746	1,247,823 1,413,427
		<b>Total</b>	<b>163,666,850</b>	<b>2,661,250</b>

### Notes:

The operator submitted written notification to Responsible Authority within the deadline, after realization of predicted measure, part of the Improvement Programme

## 10 Agreement for changes made in written form

10.1 When the phrase “or as otherwise agreed in written” is used in a condition of this Permit, the operator will ask for such agreement in the following ways:

10.1.1 The operator will give in writing to the Responsible Authority notification for details in proposed changes, by marking the relevant parts from this Permit: and

10.1.2 Such notification will include assessment of possible impact from proposed change (including generated waste) as environmental risk caused by the installation for which this Permit is issued.

10.2 Each change proposed by the condition 10.1.1 and agreed in writing with Responsible Authority, may be implemented only after prior submission of the written notification to the Public Authority, for the date of implementation of such change. Starting from that day, the operator will manage the installation according this change and for every relevant document referring to that change, the Permit shall be updated.

10.3 Every significant change in the installation or issues related to installation, which are from:

- i. Material change or increase of:
  - Nature or quantity of any emission,
  - Systems for decrease/treatment or processing,
  - Scope of the performed processes
  - Fuels, raw materials, intermediate products, goods and generated waste, or
- ii. Any changes of:
  - Infrastructure of managing with the location and control with undesirable environmental impact
  - Suppliers
  - Which will have influence to the environment

Will take place or will begin after previous notification, and after prior agreement with the Responsible Authority.

## Appendix 1

### Written Confirmation for notifications

This Appendix states the information which the operator has to submit to the Responsible Authority to satisfy the condition 5.1.2 from this Permit.

The measuring units used in data shown in part A and B needs to be relevant to the condition of the emission. If possible, has to be made comparison of the real emission and allowed emission limits.

If some information is considered as business confidential, has to be treated separately from those that are not confidential, submitted separately together with request for commercial confidentiality according the Law on Environment.

The Certificate shall contain:

#### Part A

- ☐ Name of the operator
- ☐ Permit number
- ☐ Location of the installation
- ☐ Date of submitting the data
- ☐ Time, date and location of the emission
- ☐ Characteristics and details of the emitted substances shall include:
  - ☐ Best estimation of the quantity and intensity of the emission, and time when the emission happened
  - ☐ Medium of the environment for which the emission refers to
  - ☐ Undertaken and planned measures for emission prevention

#### Part B

- ☐ Other more precise data for the subject notified in part A
- ☐ Taken or planned measures for prevention of recurrence of the problem
- ☐ Taken or planned measures for correction, limitation or pollution prevention or environmental damage which may happen as a result of the emission.
- ☐ Dates of all notifications from Part A during the previous 24 months.
- ☐ Name ☐ Mail
- ☐ Signature ☐ Date
- ☐ Statement that the person signed below is authorised for signing on behalf of the operator.

## Appendix 2

### Notification for the data from the monitoring

The parameters, for which the reports will be made, according the conditions 4.1.2 from this Permit, are as stated below:

Report	Frequency of the report	Date of submitting the report
<b>Annual Report for Environment</b>	Yearly	Until 31st of March every year
<b>List of incidents</b>	As they are kept	Within 3 days after the incident
<b>Monitoring of quality of waste water</b>	Quarterly	10 days after the quarter ends
<b>Monitoring of air</b>	2 times per year	10 days after the semester ends
<b>Schedule of targets and objectives</b>	Every 5 years, with yearly revision	3 months before the development begins
<b>Revision of used water</b>	Yearly	
<b>Revision of energy efficiency</b>	Once	
<b>Review of noise</b>	Yearly	

## Appendix 3

Table V.2.1: WASTE – Utilization/disposal of hazardous waste

Waste material	Number from European Catalog for waste	Main source	Quantity		Processing/disposal within the location	Processing, reuse or recycling by licenced company	Disposal outside from the location
			Tones/yearly	m <sup>3</sup> /monthly	Method and location	Method, location and licenced company	(Method, location and licenced company)
Waste accumulators	20 01 33	Accumulator station	16,02	/	/	Recycled by Ival Trejd	/
Fluorescent lamps	20 01 21	Maintenance of freezers (changing of neons) - Pivara Skopje- In the Factory	0	/	/	/	Landfill Drisla
Used machine oils	13 02 08	Production of beer and NAB (maintenance of the machines) - Energy – work of compressors; - transformers; - maintenance of vehicles (maintenance of fork trucks) -	1,04	/	/	Recycled by AUTO HOUSE ZAKOVSKI	/
Waste tires from fork trucks	16 01 03	maintenance of vehicles (maintenance of trucks)	0	/	/	Recycled by Sirovina Miladinovci	/

Table V.2.2 WASTE – Other kind of usage / treatment of the waste

Waste material	Number from European Catalog for waste	Main source <sup>1</sup>	Quantity		Processing/disposal within the location <sup>23</sup>	Processing, reuse or recycling by liscenced company	Storage outside from the location
			Tones/yearly	m <sup>3</sup> /monthly	(Method, location and liscenced company)	(Method, location and liscenced company)	(Method, location and liscenced company)
INTERMEDIATE PRODUCTS							
1.Dry treber	02 07 01	Production process of beer	154,940	/	/	Reusage by milk producers	/
2. Wet treber	02 07 01		5181,370	/	/		/
3. Dry yeast	02 07 01		2,250	/	/		/
PVC AND PLASTICS							
1. PVC can of 30l.	15 01 02	Production proces of beer and NAB (usage of raw materials in production process)	1,182	/	/	Recycling by Sirovina Miladinovci, EKOCIRKON	/
2. PVC balloon of 22l.	15 01 02		3,905	/	/		/
3. PVC balloon of 25l	15 01 02		0,102	/	/		/
4. PVC balloon of 50l	15 01 02		0,951	/	/		/
5. PVC balloon of 100l.	15 01 02		1,212	/	/		/
6. PVC balloon of 200l	15 01 02		8,591	/	/		/
7. PVC canister 1000l.	15 01 02		0,390	/	/		/
8. Crate type 1/20 (beer)	15 01 02		23,896	/	/	Recycling by GEPLASTIK Gevgelija, PAKOMAK	/
9. Small crate 1/24 (NAB)	15 01 02		13,125	/	/		/
10. Plastic bags	15 01 02		4,19	/	/		/
11. Stretch foil	15 01 02		26,9	/	/		/
12. Plastic screw top	15 01 02		1,4	/	/		/

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13. PET	15 01 02	Production process of beer and BAP ( waste from production and bottles)	7,11	/	/		/
PAPER/CARDBOARD							
1.VIII - class PAPER/CARDBOARD	15 01 01	Production process of beer and (use of raw materials in production; Factory site)	90,305	/	/	Recycling by PAKOMAK	/
2. Paper barrel 30 kg	15 01 01		0	/	/	Reuse by employee, Sirovina Miladinovci, EKOCIRKON	/
3. Paper barrel 50 kg	15 01 01		0	/	/	Reuse by employee, Sirovina Miladinovci, EKOCIRKON	/
GLASS							
1. Glass - landfill	15 01 07	Production of beer and BAP – waste from washing and filling of bottles	535,3	/	/	/	Landfill Drisla
2. Glass - recycling	15 01 07		125,8	/	/	Recycling by PAKOMAK, SFR GREJAC Srbija	/
METAL							
1 .Metal barrels 160-200l.	15 01 04	Production process of beer and BAP	6,7	/	/	Recycling by Sirovina Miladinovci, EKOCIRKON	/
ALUMINIUM							
1.ALUMINIUM-can	15 01 04	Production process of beer and BAP	0.9	/	/	Recycling by Sirovina Miladinovci, EKOCIRKON	/
2. ALUMINIUM	15 01 04		0.055	/	/		/
WOOD							
1. 140 h 110	15 01 03	- Warehouse for final product (Loading and unloading of final product); - production of beer and NAB (transport and storage of products)	0	/	/	Recycling by AS BOSFOR, employee	/
2. 140 h 110-light	15 01 03		25,728	/	/		/
3. 120 h 100	15 01 03		0	/	/		/
4. Other pallets	15 01 03		14,049	/	/		/
5. Wooden frames	15 01 03		6,75	/	/		/
6. Euro pallets-Waste	15 01 03		67,14	/	/		/
7.Beer pallets –Waste	15 01 03		31,52	/	/		/

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8.Other pallets-waste	15 01 03		110,84	/	/		/
9. Wasted wood	15 01 03		9,52	/	/		/
Wasted Iron							
1. Waste Iron	17 04 05	Production process of beer and NAB (maintenance of the equipment)	37.98	/	/	Recycling by Sirovina Miladinovci, EKOCIRKON	/
2. INOX	17 04 07		0	/	/		/
OTHER WASTE							
1.Storage of beer with expired date	02 07 04	Products returned from retail	0	/	/	/	Landfill Drisla
2.Storage of beverages with expired dates	02 07 04		0	/	/	/	
3.Containeers filled with garbage	20 03 01	Factory site-Skopje Pivara	187,10	/	/	/	
4. Toners from printers and copiers	20 01 33	PIVARA SKOPJE – usage of printers	0		/	Recycled by Sirovina Miladinovci	/

Annual quantities are given based on the Report for 2011