

LEJWELEPUTSWA DISTRICT MUNICIPALITY



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ENVIRONMENTAL MANAGEMENT: AIR QUALITY

ATMOSPHERIC EMISSION LICENCE

AS CONTEMPLATED IN TERMS OF SECTION 41 AND 43 OF THE NATIONAL ENVIRONMENTAL MANAGEMENT AIR QUALITY ACT (ACT 39 OF 2004), AMENDED BY THE NATIONAL ENVIRONMENTAL MANAGEMENT AIR QUALITY AMENDMENT ACT (ACT 20 OF 2014).

I, Yolisa Kupiso, in my capacity as The **District Air Quality Officer** (here after referred to as "the Licensing Authority") of the Lejweleputswa District Municipality, in terms of section 41 and 43 of the **National Environmental Management Air Quality Act**, (Act 39 of 2004, amended by the National Environmental Management Air Quality Amendment Act, Act 20 of 2014) (here after referred to as the "Act"), and as provided for in section 36(1) of the Act, hereby grant a **Provisional Atmospheric Emission Licence** (here after referred to as the "Licence") to **Tetra4 Cluster 1 Gas Production** (Free State Welkom Operation) (here after referred to as the "Applicant").

This Licence is issued to the Applicant in respect of one (1) Listed Activity applied for by the Applicant in terms of the Act, namely **Storage and Handling of Petroleum Products [Category 02]**. The Licence has been issued on the basis of information provided by the Applicant, and information that became available during the processing of the application.

This Licence will be valid for a period of Six Months from date of issue for the mentioned Activities at the mentioned Activity address and this Licence will be reviewed after Six Months. A full Licence will be issued after a successful review, provided that all conditions stipulated are adhered to. The Licence is issued subject to the conditions and requirements set out below, which form part of the Licence and which are binding on the Applicant as the holder of the Licence (here after referred to as "the Licence Holder").

The Licence Holder is licensed to perform the mentioned Listed Activities, which in short entails rendering cooking, drying, dehydrating, digesting, evaporating or protein concentrating of any animal matter not intended for human consumption.

1. ATMOSPHERIC EMISSION LICENCE ADMINISTRATION:

Name of Licensing Authority	Lejweleputswa District Municipality
Atmospheric Emission Licence Number	LDM/AEL/YMK/014
Atmospheric Emission Licence Issue Date	04 August 2017
Atmospheric Emission Licence Type	Provisional Atmospheric Emission Licence
Review Date	04 February 2018

2. ATMOSPHERIC EMISSION LICENCE HOLDER DETAILS:

Enterprise Name	Tetra4 Pty (Ltd)
Trading as	Tetra4 Pty (Ltd)
Enterprise Registration Number	2005/012157/07
Registered Address	1 Bompas Road, Dunkeld West, Johannesburg 2196
Postal Address	Postnet Suite 610, Privatebag X 10030, Randburg, 2125
Telephone Number (General)	010 045 6010
Industry Sector / Nature of Trade	Compressed Natural Gas
Name of Responsible Person	Khalid Patel
Name of Emission Control Officer	Khalid Patel
Telephone Number	010 045 6010
Cell Phone Number	083 565 2355
Fax Number	010 045 6001
Email Address	khalidp@tetra4.com
After Hours Contact Details	083 565 2355
Land Use Zoning as per Town Planning Scheme	Farming

3. LOCATION OF PLANT:

Neighbourhood Land-use in the surrounding of the proposed project comprises predominantly of agriculture and mining activities..

Physical Address of the Premises	Welkom District
Description of site	The Site is Located in Mathjabeng and Masilonyana Local Municipalities, near Virginia covering 59 Farms in the Free State Province
Coordinates of Approximate Centre of Operations	-28°17'85.46"N-S; 26°73'09.78"E-W
Extent (km ²)	143.2 km ²
Elevation Above Mean Sea Level (m)	1340 M
Province	Free State
District Municipality	Lejweleputswa District Municipality
Local Municipality	Matjhabeng Municipality
Designated Priority Area	None

4. GENERAL CONDITIONS:

4.1 Process and ownership changes

- (a) The Licence Holder must ensure that all unit processes and apparatus used for the purpose of undertaking the Listed Activities in question, and all appliances and mitigation measures for preventing or reducing atmospheric emissions, are at all times properly maintained and operated to the specifications of the manufacturer/s.

- (b) No building, plant or site of works related to the Listed Activities, shall be extended, altered or added to without environmental authorisation from the Licensing Authority or other competent authority. The investigation, assessment and communication of the potential impact of such an activity, must follow the basic assessment procedure as prescribed in the Environmental Impact Assessment Regulations published in terms of section 24(5) of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended.
- (c) Any changes in processes or any production increases by the Licence Holder with regards to the Listed Activities, require prior written approval from the Licensing Authority. Any changes to the type and quantities of input materials and products, or to production equipment and treatment facilities which impacts on the Listed Activities will also require prior written approval from the Licensing Authority.
- (d) The Licence Holder must, within 30 (thirty) working days of any change of ownership of the company, inform the Licensing Authority in writing thereof.
- (e) The Licence Holder must, immediately on cessation or decommissioning of a Listed Activity, inform the Licensing Authority in writing thereof.

4.2 General duty of care

- (a) The Licence Holder must, when undertaking the Listed Activities, adhere to the duty of care obligations as set out in section 28 of the NEMA. The Licence Holder must undertake the necessary measures to minimize or contain the atmospheric emissions. The measures are set out in section 28(3) of the NEMA.
- (b) Failure to comply with the above condition is a breach of the duty of care, and the Licence Holder will be subject to the sanctions as set out in Chapter 7, Section 52 of NEMAQA (Act no. 39 of 2004), Chapter 10, Section 89 of the National Health Act (Act 61 of 2003), Section 28 of the National Environmental Management Act (Act 108 of 1998), Chapter 16, Section 151 of the National Water Act (Act 36 of 1998), and Chapter 7, Section 68 of the National Waste Management Act (Act 59 of 2008), including any provisions contained in any By-laws.

4.3 Sampling and analysis requirements

- (a) Measurements, calculation, sampling and analysis shall be carried out in accordance with ISO Standards and EPA Methods listed in the Act (Annexure A of Government Notice 893 of 2014 in terms of Section 21 of the Act).
- (b) The Licence Holder is responsible for quality assurance of methods and performance. Where the Licence Holder uses external laboratories for sampling and analysis, only laboratories accredited by the South-African National Accreditation System (SANAS), shall be used. A certified copy of the licence and the accreditation of the external laboratory must be submitted annually by the Licence Holder to the Licensing Authority.
- (c) The Licence Holder must, on request, provide the Licensing Authority with raw data obtained during sampling and or analysis, including proof of agreed methodology used to reach the final results submitted for compliance.
- (d) Should monitoring results, complaints or any other information warrant such action, additional monitoring and implementation requirements may be imposed on the Licence Holder by the Licensing Authority.

4.4 General requirements of the Licence Holder

- (a) A copy of the Licence must be kept at the premises where the Listed Activity is undertaken. The Licence must, upon request thereof, be made available to the Licensing Authority, Provincial Air Quality Officer, National Air Quality Officer or other authorised person.
- (b) The Licence Holder must, within 5 working days after such change has been effected, inform in writing the Licensing Authority of any change to its details, especially – but not limited to – the name of the emission control officer, postal address and/or telephonic details.
- (c) The Licence Holder must annually hold an environmental consultation forum meeting with affected and interested parties to give feedback on the impact of the facility, and must provide written proof of such consultation to the Licensing Authority.

4.5 Statutory obligations of the Licence Holder

The Licence Holder must comply with the obligations as set out in Chapter 5 of NEMAQA (Act 39 of 2004), Chapter 10 and 11 of the National Health Act (Act 61 of 2003), National Environmental Management Act (Act 108 of 1998), National Water Act (Act 36 of 1998), and National Waste Management Act (Act 59 of 2008), as well as all applicable Municipal and District By-laws. This authorisation does not relieve the Licence Holder to comply with any or other statutory requirements that may be applicable to the undertaking of these Listed Activities.

4.6 Payment of Atmospheric Emission Licence processing fee

The Licence Holder must, for the period of validity of the Licence, pay per Listed Activity the prescribed processing fee or district licence tariff to the Licensing Authority in line with any District By-Law, Provincial Regulation, National Regulation or other tariff policy in terms of NEMAQA (chapter 5 (37)). This fee may be paid in full directly after the licence has been issued, or annually in five equal payments for the duration of the Licence. Should the Licence Holder ceases a Listed Activity before the five year licence term is up, total payment will be due immediately, should any payment be outstanding at such time. The AEL Processing Fee that is due by the Licence Holder will be communicated as soon as possible.

5. NATURE OF PROCESS:

5.1 All processes are described by the Applicant in their AEL-application form.

5.2 Operating Requirements

- (a) The Licence Holder must ensure that all abatement equipment, where applicable, is operated 95% of the time during normal operation.
- (b) The Licence Holder must ensure that equipment is at all times operated within their designed operational capacity and safety levels.
- (c) The Licence Holder must ensure that operators have undergone compulsory training to operate the equipment and have attended induction training on the plant environmental management and air quality plans, which must be incorporated into plant SHE training.
- (d) The Licence Holder will be required to comply with greenhouse emission standards after promulgation thereof.
- (e) The Licence Holder must reduce the release of pollutants generated by the Listed Activities to a minimum and within legislative standards.

5.3 Emission Standards for Listed Activities:

1. The Following Best Practice measure Shall Apply for the Storage and handling of Raw materials, intermediate and final products with a Vapour pressure greater than 14kPa at operating temperature:

(a) Leak Detection and Repair (LDAR) program approved by Licensing Authority to be instituted.

5.3.1 Storage and Handling of Petroleum Products [NEMAQA, Section 21: Category 1, Subcategory 2.4]

- Type 1 : Up to 14kPa , Fixed-roof tank vented to Atmosphere, or as per Type 2 and 3
- Type 2 : Above 14kPa and up to 91kPa with a throughput of less than 50'000 m³ per annum , Fixed-roof tank with Pressure Vacuum Vents fitted as a minimum, to Prevent "breathing" losses, or as per Type 3.
- Type 3: Above 14kPa and Up to 91 kPa with a throughput greater than 50'000 m³ per annum :
 - i) External Floating-roof tank with primary rim seal and secondary rim seal for tank with diameter greater than 20m, or
 - ii) Fixed-roof tank with internal floating deck/roof fitted with primary seal, or
 - iii) Fixed-roof tank with vapour recovery system
- Type 4: Above 91kPa - Pressure Vessel

5.4 Monitoring Programme

- (a) **The Licence Holder must immediately implement – if not yet implemented – an Emissions Monitoring Programme in terms of the NEMAQA (Act 39 of 2004).**
- (b) **The Licence Holder must submit an annual Emissions Monitoring Report to the Licencing Authority.**

6. REPORTING AND RECORD-KEEPING:

6.1 Complaints register

- (a) The Licence Holder must **maintain a Complaints Register** at the premises where the Listed Activities are conducted, and such register must be available for inspection by the Licensing Authority. Complaints that need to be registered also include noise, dust and offensive odours.
- (b) The Licence Holder must immediately investigate and handle, to the best possible satisfaction of the complainant/s, all received complaints.
- (c) **The Licence Holder must annually submit a summarised report to the Licensing Authority of all complaints received during this period.** This report must include the following information:
 - Name of complainant (including physical address and telephone number);
 - Date and time complaint was received;
 - Root cause analysis;
 - Calculation of impacts / emissions associated with incidents and dispersion modelling of pollutants, where applicable;
 - Measures implemented or to be implemented to prevent recurrence of incident; and
 - Date by which these measure/s will be implemented.

- (d) The complaints register must be kept for a period of at least 5 (five) years after a complaint was received.
- (e) Records related to compliance / non-compliance of the Listed Activities must be kept in good order by the Licence Holder. Such records must be made available to the Licensing Authority within seven (7) days from the date of a written request from the Licensing Authority.

6.2 Reporting


- (a) The Licence Holder must complete an annual report and submit such report electronically on the internet-based National Atmospheric Emissions Inventory System (NAEIS), which is to be found on the website of the South African Air Quality Information System (SAAQIS).
- (b) In addition to the above, the Licence Holder must submit a hard copy of the Annual Report to the Licensing Authority, which must be submitted not later than 30 (thirty) days after the last day of the reporting period.
- (c) The Annual Report must include information on the reporting period, including amongst others, the following:
 - Pollutant emissions trend;
 - Compliance audit report;
 - Major upgrades projects (i.e. abatement equipment or process equipment);
 - Greenhouse gas emissions; and
 - Any other reporting requirements contained and prescribed in this document.
- (d) The Licence Holder must keep a copy of each report for a period of at least 5 (five) years.

7. NON-COMPLIANCE WITH LICENCE CONDITIONS AND REQUIREMENTS:

- (a) The Licence Holder shall be responsible for ensuring compliance with all the above conditions by any person acting on his or her behalf, including but not limited to an agent, consultant, sub-contractor, employee or person rendering a service to the Licence Holder.
- (a) Failure of the Licence Holder to comply with any of the above conditions and requirements is a breach of the licence conditions, and the Licence Holder will be subject to the sanctions set out in Chapter 7, Section 52 of NEMAQA (Act no. 39 of 2004), Chapter 10, Section 89 of the National Health Act (Act 61 of 2003), Chapter 7, Section 28,32,33 and 34 of the National Environmental Management Act (Act of 108 of 1998), Chapter 16, section 151 of the National Water Act, and Chapter 7 section 68 of the National Waste Management Act, including any penalties contained in any By-Laws.

8. LICENCE VALIDITY:

This Atmospheric Emission Licence is valid for a period of six months from date of issue and will be reviewed thereafter.



YM Kupiso
Air Quality Officer
Lejweleputswa District Municipality

04 August 2017
Date

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**PME Kaota
Municipal Manager
Lejweleputswa District Municipality**

4/8/2017

Date