# Gert Sibande District Municipality

Please address all correspondence to:

The Municipal Manager P O Box 1748 ERMELO 2350

Corner Joubert & Oosthuise Street ERMELO 2350



Office hours: Mondays to Thursdays 07:30 – 13:00 / 13:30 – 16:00 Fridays: 07:30 – 14:00 Tel.: (017) 801 7000 Fax: (017) 811 1207

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# OFFICE OF THE MUNICIPAL MANAGER

Enquiries: Ms. MLT Mogakabe (017 801 7000)

Our Ref: 13/19/1/Govan Mbeki/Sasol South Africa Limited- Secunda Tank Farm and Loading/0018/2025/F04 Date: 25 February 2025

#### Sasol South Africa Limited- Secunda Tank Farm and Loading

PDP Kruger Secunda 2302

#### Attention: Mr. Hannes Buys

Dear Sir

# ATMOSPHERIC EMISSION LICENCE IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT: AIR QUALITY ACT, 2004 (ACT NO. 39 OF 2004) AS AMENDED.

With reference to your application dated 16 February 2024, enclosed, herewith, the Atmospheric Emission Licence No Govan Mbeki/Sasol South Africa Limited- Secunda Tank Farm and Loading/0018/2025/F04 dated 25 February 2025 in respect of the Sasol South Africa Limited-Secunda Tank Farm and Loading.

Your attention is drawn to the following conditions for licence issue -

- a. Chapter 5, Section 42 of the Act, Issuing of Atmospheric Emission Licence And
- b. Chapter 5, Section 43 of the Act, Content of Provisional Atmospheric Emission Licence, and Atmospheric Emission Licence.

#### 1. SITUATION AND EXTENT OF PLANT

#### Situation

PDP Kruger, Secunda, Govan Mbeki Local Municipality, Gert Sibande District, Mpumalanga.

#### <u>Extent</u>

24.05km<sup>2</sup>

#### 2. NATURE OF PROCESS AND LISTED ACTIVITIES IN TERMS OF SECTION 21

Listed Activity Number	Category of Listed Activity	Sub-category of the listed activity	Description of the Listed Activity	Application	
2.4	Petroleum Industry	Storage and Handling of Petroleum Products	Petroleum product storage tanks and product transfer facilities.	All permanent immobile liquid storage tanks larger than 1000 cubic meters cumulative tankage capacity at the site.	

Yours in good governance,

DOM

MR.-CA HABILE MUNICIPAL MANAGER



# GERT SIBANDE DISTRICT MUNICIPALITY

# NATIONAL ENVIRONMENTAL MANAGEMENT: AIR QUALITY ACT, 2004 (ACT NO. 39 OF 2004) AS AMENDED

Atmospheric Emission License

# Sasol South Africa Limited- Secunda Tank Farm and Loading

Is authorized to continue the processes listed below, with equipment and plant as detailed in the licence conditions of licence no. Govan Mbeki/Sasol South Tank Africa Limited-S<mark>ecund</mark>a Farm and Loading/0018/2025/F04 on the premise k<mark>nown</mark> as PDP Kruger Site. Secunda, Govan Mbe<mark>ki Loc</mark>al Municipa<mark>lity, G</mark>ert Sibande District Municipality, Mpumalang<mark>a.</mark>

10.000 (10.000)

Listed Activity Number	Category of Listed Activity	Sub-category of the listed activity	Description of the Listed Activity	Application	
2.4	Petroleum Industry	Storage and Handling of	Petroleum product storage	All permanent	
	1	Petroleum Products	tanks and product transfer	immobile liquid	
	200		facilities.	storage tanks larger	
*			-	than 1000 cubic	
,		All and	and the second s	meters cumulative	
		14 GAMP 10 D		tankage capacity at	
				the site.	

LICENSING AUTHORITY

Govan Mbeki/Sasol South Africa Limited- Secunda Tank Farm and Loading/0018/2025/F04 Date: 25 February 2025

Gert Sibande District Municipality

<u>Office hours:</u> Please address all correspondence to:

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E-mail: records@gsibande.gov.za Website: www.gsibande.gov.za

Cnr Joubert & Oosthuise Street Ermelo 2350

ATMOSPHERIC EMISSION LICENCE AS CONTEMPLATED IN SECTION 43 OF THE NATIONAL ENVIRONMENTAL MANAGEMENT: AIR QUALITY ACT, 2004, (ACT NO. 39 OF 2004) (NEMAQA) AS AMENDED

I, **Mary Lorette Tebogo Mogakabe**, in my capacity as **License Officer** (hereinafter referred to as "the Licensing Authority"), in terms of section 36(1) of the National Environmental Management: Air Quality Act, 2004 (Act 39 of 2004, hereinafter referred to as the "Act"), and as provided for in section 40(1)(a) of the Act, hereby grant an Atmospheric Emission Licence to **Sasol South Africa Limited- Secunda Tank Farm and Loading** ('the Applicant)."

The Atmospheric Emission Licence is issued to Sasol South Africa Limited- Secunda Tank Farm and Loading in terms of section 42 of the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004), in respect of Listed Activity Category 2 Sub-category 2.4: Storage and Handling of Petroleum Products.

The Atmospheric Emission Licence has been issued based on information provided in the company's application dated **16 February 2024** and information that became available during processing of the application.

The Atmospheric Emission Licence is valid upon signature for a period not exceeding five (05) years from the date of issue of this licence. The reason for issuing the licence is renewal. The Atmospheric Emission Licence is issued subject to the conditions and requirements set out below which form part of The Atmospheric Emission Licence, and which are binding on the holder of the Atmospheric Emission Licence ("the holder").

Name of the Licensing Authority	Gert Sibande District Municipality
Atmospheric Emission Licence Number	Govan Mbeki/Sasol South Africa Limited- Secunda Tank
	Farm and Loading/0018/2025/F04
Atmospheric Emission Licence Issue Date	25 February 2025
Atmospheric Emission Licence Type	Renewal
Renewal Date	30 November 2029
Expiry date	25 February 2030

# 1 ATMOSPHERIC EMISSION LICENCE ADMINISTRATION



# 2 ATMOSPHERIC EMISSION LICENCE HOLDER DETAILS

Enterprise Name	Sasol South Africa Ltd
Trading as	Sasol South Africa Limited-Secunda Tank Farm
	Loading and Offloading
Enterprise Registration Number (Registration Numbers if	1968/013914/06
Joint Venture)	
Registered Address	Sasol Place
	50 Katherine Street
	Sandton
	Gauteng
Postal Address	Private Bag 1013
	Secunda
	2302
Telephone Number (General)	017 610 5105
Industry Sector	Petroleum Products.
Name of Responsible Person or Emission Control Officer	Mr. Hannes Buys
Telephone Number	017 619 3515
Cell Phone Number	082 339 3906
Email Address	Hannes.buys@sasol.com
After Hours Contact Details	082 902 1989
Land Use Zoning as per Town Planning Scheme	Industrial Special

# 3. LOCATION AND EXTENT OF PLANT

# 3.1. Facility Address

PDP Kruger
Secunda
2302
Highveld Ridge, Mpumalanga
Latitude: -26.55305ºS
Longitude: 29.1648ºE
24.05
1597
Mpumalanga
Gert Sibande District Municipality
Govan Mbeki Local Municipality
Highveld Priority Area

# 3.2. Description of surrounding land use (within 5 km radius)

- Secunda residential and commercial
- Embalenhle residential and commercial
- Mining activities
- Farming activities



Figure 1: Sasol South Africa Ltd- Secunda satellite image

# 4. GENERAL CONDITIONS

# 4.1. Process and ownership changes.

(a) The holder of the Atmospheric Emission Licence must ensure that all unit processes and apparatus used for the purpose of undertaking the listed activity in question, and all appliances and mitigation measures for preventing or reducing atmospheric emissions, are always properly maintained, and operated.

(b) No building, plant or site of works related to the listed activity or activities used by the licence holder shall be extended, altered, or added to the listed activity without an environmental authorisation from the competent authority. The investigation, assessment, and communication of potential impact of such an activity must follow the 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 production increases, by the licence holder, will require prior written approval from the licensing authority.

(d) Any changes or increase to the type and quantities of input materials and products, or to production equipment and treatment facilities will require prior written approval from the licensing authority.

(e) The licence holder must, in writing, inform the licensing authority of any change of ownership of the enterprise. The licensing authority must be informed within thirty (30) working days after the change of ownership.

(f) The licence holder must immediately on cessation or decommissioning of the listed activity inform, in writing the licensing authority.

(g) The licence holder must notify the Licensing Authority in writing and submit the closure and rehabilitation plan three (3) months prior to the decommissioning of the facility.



# 4.2. General duty of care

(a) The holder of the Licence must, when undertaking the listed activity, adhere to the duty of care obligations as set out in section 28 of the NEMA as amended including Part II Section 3 of Gert Sibande District Municipal Air Quality by-laws.

(b) 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 as amended.

(c) 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 set out in Section 28 of the NEMA as amended including Part III Section 3 of Gert Sibande District Municipal Air Quality by-laws.

# 4.3. Sampling and/or analysis requirements

(a) Measurement, calculation and /or sampling and analysis shall be carried out in accordance with any nationally or internationally acceptable standard in line with Annexure A of NEMAQA as amended.

(b) Methods other than those contained in Annexure A of NEMAQA as amended may be used with the written consent of the National Air Quality Officer.

(c) In seeking the written consent referred to in paragraph (b), an applicant must provide the National Air Quality Officer with any information that supports the equivalence of the method other than those listed in Annexure A of NEMAQA as amended.

(d) The licence holder is responsible for quality assurance of methods and performance. Where the holder of the licence uses internal or external laboratories for sampling or analysis, only accredited laboratories by the national accreditation body shall be used. The certified copy of accreditation of the internal or external laboratory must be submitted to the Licensing Authority annually.

(e) The licence holder must provide the Licensing Authority on request with raw data obtained during sampling and or analysis including proof of agreed methodology used to reach the results submitted for compliance.

# 4.4. General requirements for licence holder

(a) The licence holder must conduct an induction on air quality management issues including compliance with the conditions of this licence to any person acting on his, her or its behalf including but not limited to an employee, agent, sub-contractor, or person rendering a service to the holder.

(b) The licence does not relieve the licence holder to comply with any other statutory requirements that may be applicable to the carrying on of the listed activity.

(c) A valid licence must be kept at the premises where the listed activity is undertaken. The licence must be made available to the Environmental Management Inspector / Air Quality Officer or an authorised officer representing the licensing authority who requests to see it.

(d) The Atmospheric Emission Licence Certificate must be displayed at the premises where the listed activity is undertaken.

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(e) The licence holder must inform, in writing, the licensing authority of any change to its details but not limited to the name of the Emission Control Officer, postal address and/or telephonic details within five (05) working days after such change has been effected.

(f) The Emission Control Officer or facility representative must attend the Highveld Priority Area Implementation Task Team or Air Quality Stakeholder Forum Meetings bi-annually.

(g) The licence holder must report and submit annual emission report for the preceding year in terms of GNR 283 in Government Gazette 38633 of 02 April 2015 and GNR 4493 in Government Gazette 50284 of 08 March 2024 (National Atmospheric Emission Inventory System Reporting Regulations).

(h) The licence holder must hold an environmental/air quality consultation meeting with interested and affected parties as well the community surrounding Sasol Secunda bi-annually to give feedback on the processes, projects conducted by the facility as well as compliance status in relation to air quality management. The licence holder must submit written proof of such consultation to the licensing authority bi-annually.

# 4.5. Statutory obligations

The licence holder must comply with the obligations as set out in Chapter 5 of NEMAQA (Act No. 39 of 2004) as amended, National Environmental Management Act, 1998 (Act No. 108 of 1998) as amended, including Gert Sibande District Municipal Air Quality Management by-laws.

# 5 NATURE OF PROCESS

# 5.1 Process Description

Site logistics operates various loading facilities on behalf of the operating entities on site. The purpose of the loading facilities is to load petroleum, organic chemical and ammonia products from various tanks into the road and rail tankers for hauling to various destinations. The vapour recovery unit is used to control and reduce hydrocarbon emissions including total volatile organic compounds generated during loading of fuels into the road and rail tankers.

Different products are loaded on the different loading arms at different times.



#### 5.2 Listed Activities

Listed Activity Number	Category of Listed Activity	Sub-category of the listed activity	Description of the Listed Activity	Application	Secunda Operations Tank Farm and Loading Processes	
2.4	Petroleum Industry	Handling of	Petroleum product storage tanks and product transfer facilities.	larger than 1000 cubic meters cumulative	Site Logistics	
<b>5.3</b> Un	it process or proces	Petroleum Products		tankage capacity at the site.		

#### 5.3 Unit process or processes

Unit process	Function of unit process	Batch or continuous process	Operating hours per day	No. days operation per year
Unit 057 facility road loading	Loading of petroleum and organic chemical products into the road tankers.	Batch	24	365
Unit 057 facility rail loading	Loading of petroleum and organic chemical products into the rail tankers.	Batch	24	365
Unit 257 facility rail loading	Loading of petroleum and organic chemical products into the rail tankers.	Batch	24	365
Tar naphtha extraction plant (TNPE) rail loading facility	This loading bay is used for offloading of raffinate and loading of tar acids	Batch	24	365
U56 Black products Road loading facility	Loading of Black Products to road tankers.	Batch	24	365
Caustic Soda Rail Offloading Facility	Offloading of Caustic Soda to tank.	Batch	24	365
DIPE Rail Offloading Facility	Offloading of DIPE to tank.	Batch	24	365

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Govan Mbeki/Sasol South Africa Limited- Secunda Tank Farm and Loading/0018/2025/F04

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#### **Graphical Process Information** 5.4



Figure 2: U057 road loading facility

Figure 3: Unit 057 rail loading facility

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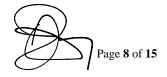
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Figure 4: Unit 057 rail loading facility



Figure 5: Tar naphtha extraction loading and offloading facility



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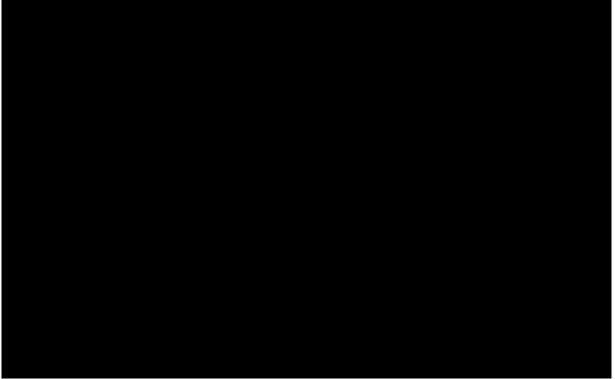


Figure 6: Caustic soda rail offloading and DIPE rail offloading facilities

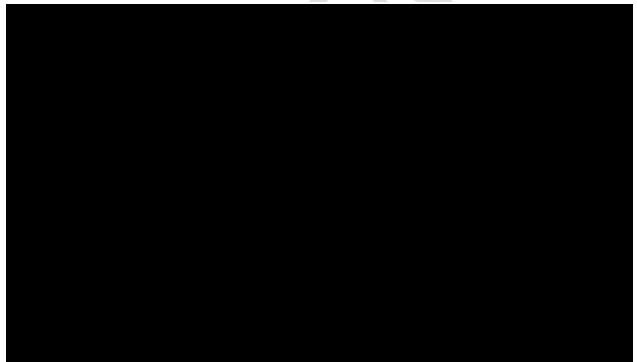


Figure 7: Black Products road loading facility



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# 6. RAW MATERIAL AND PRODUCTS

# 6.1. Raw material

Material type	Maximum Operational Consumption Rate	Units (quantity/period)
None		

# 6.2 Production rates

Production name	Maximum Production Rate		Units (quantity/period)					
Road Loading Facility								
Chemicals			Cubic meters per annum					
Fuels			Cubic meters per annum					
Rail Loading Facilities								
Chemicals			Cubic meters per annum					
Fuels			Cubic meters per annum					

# 6.3. Material used in energy sources

Material	Maximum Consumption Rate	Units (quantity/period)	Materials Characteristics
Electricity		Kilowatt hour per day	N/A

\*Rate is based on flow meters utilised during loading operation





# 6.4. Sources of atmospheric emission

# 6.4.1. Point Source parameters

Point source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of release above ground (m)	Height above nearby building (m)	Diameter at stack tip / vent exit (m)	Gas exit temperature (°C)	Gas volumetric flow (m³/s)	Gas exit velocity (m/s)	Emission hours	Type of emission
SV01	Vapour recovery stack			8.25	3	0.31	24	1 224	8.6	24	Intermittent

# 6.4.2. Area source parameters

Unique ID	Source name	Latitude	Longitude	Length (m)	Width (m)	Emission hours	Type of emission
EU0002	Unit 507 road loading facility			209	408	24	Intermittent
EU0003	Unit 057 rail loading facility			82	19	24	Intermittent
EU0004	Unit 257 facility rail loading	-		30	56	24	Intermittent
EU0005	Tar naphtha extraction plant (TNPE) rail loading facility			10	29	24	Intermittent
EU0006	U56 Black products Road loading facility			17	14	24	Intermittent
EU0007	Caustic Soda Rail Offloading Facility			30	6	24	Intermittent
EU0008	Black products road loading facility			60	6	24	Intermittent
EU0009	DIPE Rail Offloading Facility			60	6	24	Intermittent

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# 7. APPLIANCES AND MEASURES TO PREVENT AIR POLLUTION

# 7.1. Appliances and control measures

Point Source or	Equipment	Equipment	Equipment	Equipment	Commission	Date of	Design	Minimum	Minimum	Туре	of
unit associated	Туре	Serial	Name and	Manufacture	Date	Modification	Capacity	Control	Utilisation	pollutant	to
with equipment		Number	Model	Date		/Upgrade		Efficiency (%)	(%)	abate	
Vapour Recovery Stack	Filter Beds	SP057_ROVR	Activated Charcoal Filter Beds	Not available	June 2007	March 2019	4 302 m <sup>2</sup>	>60	>95	VOC's	

# 7.2. Point Source- maximum emission rates (under normal working conditions)

The following special arrangements shall apply for control of TVOCs from the loading and unloading (excluding ships) of raw materials, intermediate and final products with a vapour pressure of greater than 14kPa at handling temperature. Alternative control measures that can achieve the same or better results may be used:

(i) All installations with a throughput of greater than 50'000 m<sup>3</sup> per annum of products with a vapour pressure greater than 14 kPa, must be fitted with vapour recovery / destruction units. Emission limits are set out in the table below –

Description	Vapour Recovery Units						
Application	All loading /offloading	All loading /offloading facilities with a throughput greater than 50 000m <sup>3</sup> per annum					
Substance or mixture of substances			Compliance	mg/Nm <sup>3</sup> under normal conditions of 273			
Common name		Chemical symbol	Timeframe	Kelvin and 101.3kPa			
Total volatile organic compounds from vapour recovery/destruction units using non thermal treatment		N/A	Immediately	40 000			

(ii) For road tanker and rail car loading/offloading facilities where the throughput is less than 50 000 m<sup>3</sup> per annum, and where ambient air quality is, or likely to be impacted, all liquid products shall be loaded using bottom loading, or equivalent, with the venting pipe connected to a vapour balancing system. Where vapour balancing and or bottom loading is not possible, a recovery system utilizing adsorption, absorption, condensation or incineration of the remaining VOC's with a collection efficiency of at least 95% shall be fitted.

7.3.	Point source - maximum emission rates (under start-up, maintenance, and shut-down condition	tions)
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Point Source	Pollutant Name	Maximum Rele	ease Rate	Averaging Period	Maximum Gas Volumetric Flow	Maximum Gas Exit Velocity		Maximum Permitted Emissions	Duration of
Code		(mg/Nm³)	Date to be Achieved By		(m³/hr)	(m/s)			
SV01	Vapour recovery stack	N/A	N/A	N/A	N/A	N/A	N/A	Within 48 hours after co plant or equipment	ommissioning of

Should normal start-up, maintenance, upset and shut-down conditions exceed a period of 48 hours, Section 30 of the National Environmental Management, 1998 (Act No. 107 of 1998), shall apply unless otherwise specified by the Licensing Authority.

# 7.4. Point source – emission monitoring and reporting requirements

Point Source	Emission Sampling	Sampling	Sampling Duration	Parameters to be	Parameters to be	Reporting	Conditions under
code	Method	Frequency		Measured	Reported	Frequency	which Monitoring
							could be Stopped
Vapour	In line with GNR	Only on written					
Recovery	1207 in Government	authorisation by the					
Stack	Gazette 42103 of 31	Licensing Authority					
	October 2018						

# 7.5. Area source – management and mitigation measures

Area and/or Line Source Code	Area and/or Line Source Description	Description of Specific Measures	Timeframe for Achieving Required Control Efficiency	Method of Monitoring Measures Effectiveness	Contingency Measures
All area sources	All area sources	Implementation of fugitive management plan	Immediately	Submit annual report to Licensing Authority on the implementation of the Fugitive Management Plan.	In line with Sasol Tank Farm approved site fugitive management plan.

# 7.6. Routine reporting and record-keeping

# 7.6.1. Complaints register

The licence holder must maintain complaints register at its premises, and such register must be made available for inspections. The complaints register must include the following information: the name of the complainant, physical address, telephone number, date, and the time when the complaint was registered. The register should also provide space for noise, dust, and offensive odours complaints.

Furthermore, the licence holder is to investigate and monthly report to the licensing authority in a summarised format on the total number of complaints logged. The complaints must be reported in the following format:

- a) Root cause analysis.
- b) Calculation of impacts / emissions associated with incidents and dispersion modelling of pollutants, where applicable.
- c) Measures implemented or to be implemented to prevent recurrence; and
- d) Date by which measure will be implemented.

The licensing authority must also be provided with a copy of the complaints register. The record of a complaint must be kept for at least 5 (five) years after the complaint was made.

# 7.6.2. Emergency incidents

The licence holder must keep records of all plant failure or emergency incidents including Section 30 and submit to the licensing authority quarterly a report detailing the following:

- a) Type of plant and summary description of the equipment.
- b) Reasons for failure or cause.
- c) Previous occurrence on the same plant and number of times similar incident occurred.
- d) Mitigation instituted to prevent similar occurrence.
- e) Any breach of internal standard operating procedures.

# 7.6.3. Annual reporting

The licence holder must complete and submit to the licensing authority an annual report after the facility annual financial year, the report must include information for the year under review (i.e. annual year end of the company). The report must be submitted to the licensing authority not later than sixty (60) days after the end of each reporting period. The annual report must include, amongst others the following:

- a) The name, description, and licence reference number of the plant as reflected in the Atmospheric Emission Licence.
- b) The name and address of the accredited measurement service provider that carried out or verified the emission test, including the test report produced by the accredited measurement.
- c) The date and time on which emission test was carried out.
- d) A declaration by the licence holder to the effect that normal operating conditions were maintained during the emission tests.
- e) Pollutant emissions trend for listed activity.
- f) External AEL compliance audit report.
- g) Major upgrades projects (i.e. abatement equipment or process equipment).
- h) Complaints received and action taken to address complains received.

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- i) Proof of annual reporting of greenhouse gas emissions to the National Department in accordance with the National Greenhouse Gas Emission Reporting Regulations Government Gazette No. 40762 of 03 April 2017.
- j) Compliance status to statutory obligation (4.5) including any other issued authorisations.

The holder of the licence must keep a copy of the annual report for a period of at least 5 (five) years.

# 8. DISPOSAL OF WASTE AND EFFLUENT ARISING FROM ABATEMENT EQUIPMENT CONTROL TECHNOLOGY

Source Code Name	e /	Waste / Effluent Type	Hazardous Components Present	Method of Disposal
N/A				

# 9. PENALTIES FOR NON-COMPLIANCE WITH LICENCE AND STATUTORY CONDITIONS AND OR REQUIREMENTS

Failure to comply with the any of the licence and relevant statutory conditions and/or requirements is an offence, and licence holder, if convicted, will be subjected to those penalties as set out in Chapter 7 Section 52 of NEMAQA (Act No. 39 of 2004), including any penalties contained in the Gert Sibande District Municipality By-laws.

# 10. APPEAL OF LICENCE

- 10.1 The Licence Holder must notify every registered interested and affected party, in writing and within ten (10) working days of receiving the District's decision.
- 10.2 The notification referred to in 10.1. must -
  - 10.2.1 Inform the registered interested and affected parties of the appeal procedure provided for in Chapter 7 Part 3 Section 62 of Municipal Systems Act, 2000 (Act 32 of 2000), as amended.
  - 10.2.2 Advise the interested and affected parties that a copy of the Atmospheric Emission Licence and reasons for the decision will be furnished on request.
  - 10.2.3 An appeal against the decision must be lodged in terms of Chapter 7 Part 3 Section 62 of Municipal Systems Act, 2000 (Act 32 of 2000), from the date of issue of this Atmospheric Emission Licence, with:

Municipal Manager, PO Box 1748, Ermelo 2350 Fax No. 017-811 1207.

And

10.3. Specify the date on which the Atmospheric Emission Licence was issued.

# 11. REVIEW OF ATMOSPHERIC EMISSION LICENCE

In terms of NEMAQA (Act No. 39 of 2004) as amended, this Atmospheric Emission Licence is valid for five (05) years from date of issue of the licence.

#### LICENSING OFFICER



Govan Mbeki/Sasol South Africa Limited- Secunda Tank Farm and Loading/0018/2025/F04

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