

GERT SIBANDE DISTRICT MUNICIPALITY

NATIONAL ENVIRONMENTAL MANAGEMENT: AIR QUALITY ACT, 2004
(Act No. 39 of 2004)

Atmospheric Emission Licence

Concerning Listed Activities

Sasol Chemical Industries Pty (Ltd) SASOL OIL

Is authorised to continue the process listed below, with the equipment and plant as detailed in licence conditions of Licence No. **Govan Mbeki/ Sasol Chemical Industries Pty (Ltd) Sasol Oil/0019/2014/F01 27 March 2014** on the premises known as Industrial Special Stand number 8488, Secunda Extension 35 situated in Govan Mbeki Local Municipality, Gert Sibande District, Mpumalanga. This Atmospheric Emission Licence is issued to **Sasol Chemical Industries Pty (Ltd) Sasol Oil**, in terms of section 41(1) of the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004) ("the Act"), in respect of Listed Activity **Category 2: Sub-category 2.4 Storage and Handling of Petroleum Products and Category 8: Sub-category 8.1 Thermal Treatment of General and Hazardous Waste**

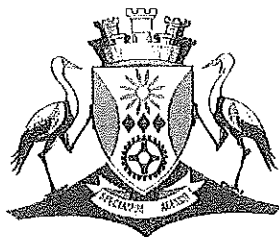
<i>Category of Listed Activity</i>	<i>Sub-category of the Listed Activity</i>	<i>Listed Activity Name</i>	<i>Description of the Listed Activity</i>
2	2.4	<i>Storage and Handling of Petroleum Products</i>	<i>Petroleum product storage tanks and product transfer facilities, except those used for liquefied petroleum gas</i>
8	8.1	<i>Thermal Treatment of General and Hazardous Waste</i>	<i>Facilities where general and hazardous waste are treated by the application of heat</i>


LICENSING AUTHORITY

Gert Sibande District Municipality

Please address all correspondence to:
The Municipal Manager

P.O.BOX 1748
ERMELO
2350



Office hours: 07:30 – 13:00 / 13:30 – 16:30
(Fridays) 07:30 – 14:00

Tel.: (017) 811 1304
Fax: (017) 811 1207
C/o Joubert & Oosthuise Street
ERMELO
2350
E-mail: dan.hlanyane@gsibande.gov.za

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

I, Tsunke Daniel Hlanyane, in my capacity as License Officer (hereinafter referred to as "the Licensing Authority"), in terms of section 43 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 36(1) of the Act, hereby grant an Atmospheric Emission Licence to the Applicant.

This Atmospheric Emission Licence is issued to **Sasol Oil (Pty) Ltd**, in terms of section 41(1) of the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004) ("the Act"), in respect of Listed Activity **Category 2: Sub-category 2.4 Storage and Handling of Petroleum Products and Category 8: Sub-category 8.1 Thermal Treatment of General and Hazardous Waste**

The Atmospheric Emission Licence has been issued on the basis of information provided in the company's application dated **29 February 2012** 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. The reason issuance of the current licence is for a new application. 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").

1. ATMOSPHERIC EMISSION LICENCE ADMINISTRATION

Name of the Licensing Authority	Gert Sibande District Municipality
Atmospheric Emission Licence Number	Govan Mbeki/ Sasol Oil (Pty) Ltd 0019/2014/F01
Atmospheric Emission Licence Issue Date	Upon date of signature
Atmospheric Emission Licence Type	Atmospheric Emission Licence
Review Date, not later than	Within 5 (five) years from date of signature

LICENSING OFFICER

Govan Mbeki/ Sasol Oil (Pty) Ltd 0019/2014/F01 27 March 2014

2. ATMOSPHERIC EMISSION LICENCE HOLDER DETAILS

Enterprise Name	Sasol Oil (Pty) Ltd
Trading as	Sasol Oil
Enterprise Registration Number (Registration Numbers if Joint Venture)	1981/007622/07
Registered Address	Synfuels road Sasol Synfuels Secunda 2302
Postal Address	Private Bag X1000 Secunda 2302
Telephone Number (General)	017 610 2627
Industry Sector	Petrochemical Company
Name of Responsible Officer	Pieter De Wet
Name of Emission Control Officer	Estelle Marais
Telephone Number	+27 17 610 2895
Cell Phone Number	+27 82 902 1989
Fax Number	+27 17 610 4090
Email Address	estelle.marais@sasol.com
After Hours Contact Details	+27 82 902 1989
Land Use Zoning as per Town Planning Scheme	Special Stand number 8488 Secunda Extension 35



LICENSING OFFICER

Govan Mbeki/ Sasol Oil (Pty) Ltd 0019/2014/F01 27 March 2014

3. LOCATION AND EXTENT OF PLANT

3.1. Address of the facility

Physical Address of the Premises	Synfuels Road Sasol Synfuels Secunda 2302
Description of Site (Erf)	Highveld Ridge, Mpumalanga
Coordinates of Approximate Centre of Operations	Latitude: [REDACTED] Longitude: [REDACTED]
Extent (km ²)	2405 hectares
Elevation Above Mean Sea Level (m)	1597m
Province	Mpumalanga
Metropolitan/District Municipality	Gert Sibande District Municipality
Local Municipality	Govan Mbeki Local Municipality
Designated Priority Area	Highveld Priority Area

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



Figure 1: Google Earth Image of area surrounding the site


LICENSING OFFICER
Govan Mbeki/ Sasol Oil (Pty) Ltd 0019/2014/F01 27 March 2014

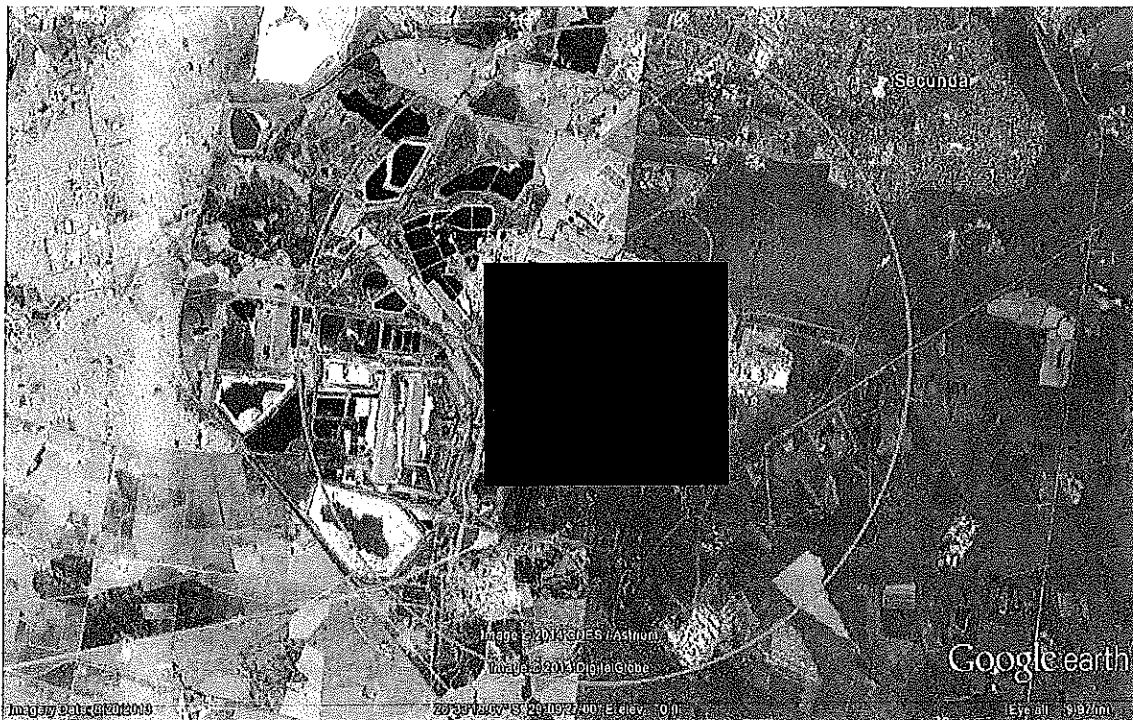


Figure 2: Locality map illustrating the area and activities within (5km) radius

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 at all times properly maintained and operated to the minimum of manufactures specifications.
- (b) No building, plant or site of works related to the listed activity or activities used by the license holder shall be extended, altered or added to the listed activity without an environmental authorisation from the competent authority if needed for such extension, alteration or addition. The investigation, assessment and communication of 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) (NEMA), as amended.
- (c) Any changes in processes or production increases, by the license holder, will require prior approval by the licensing authority. Any changes to the type and quantities of input materials and products, or to production equipment and treatment facilities will require prior written approval by the licensing authority.
- (d) The license 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. The licence holder must immediately on cessation or decommissioning of the listed activity inform, in writing the licensing authority.


LICENSING OFFICER
 Govan Mbeki/ Sasol Oil (Pty) Ltd 0019/2014/F01 27 March 2014

- (e) The license holder must immediately on cessation or decommissioning of a listed activity inform, in writing the licensing authority.

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. The license 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 license holder will be subject to the sanctions set out in as set out in Chapter 7 Section 52 of NEMAQA (Act no. 39 of 2004), Chapter 10, Section 89 of the National Health Act 61 of 2003, Section 28 of the National Environmental Management Act 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 provisions contained in the 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 NEMAQA (Annexure A). A different method may be acceptable to the licensing authority as long as it has been consulted and agreed to in writing and to the satisfactory documentation necessary in confirming the equivalent test reliability, quality and equivalence of analyses has been submitted.
- (b) The license holder is responsible for quality assurance of methods and performance. Where the holder of the licence uses external laboratories for sampling or analysis, only accredited laboratories by the national accreditation body shall be used. The certified copy of the license and the accreditation of the external laboratory must be submitted to the license authority annually including its external audits certification.
- (c) The license holder must prior using any methodology obtains written approval from the licence authority for use of such methodology for compilation of compliance sampling reports.
- (d) The license 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 final results submitted for compliance.

4.4. General requirements for license holder

- (a) The licence does not relieve the license holder to comply with any other statutory requirements that may be applicable to the carrying on of the listed activity.
- (b) A copy of the licence must be kept at the premises where the listed activity is undertaken. The original 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.
- (c) The license 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 5 working days after such change has been effected.
- (d) The license holder must hold an environmental / health consultation forum meetings with affected and interested parties bi-annually to give feedback on the impact of the facility on related matters, and must provide written prove of such consultation to the licensing authority bi-annually.


LICENSING OFFICER
Govan Mbeki/ Sasol Oil (Pty) Ltd 0019/2014/F01 27 March 2014

4.5. Statutory obligations

The license holder must comply with the obligations as set out in Chapter 5 of NEMAQA (Act no. 39 of 2004), Chapter 10 and 11 of the National Health Act 61 of 2003, National Environmental Management Act 108 of 1998, National Water Act no.36 of 1998, and National Waste Management Act no. 59 of 2008 including all related Municipal and District by-laws.

4.6. Annual payment of atmospheric emission licence processing fee

The license holder must, for the period of validity of the licence, pay or make arrangement for the payment of the prescribed processing fee or district licence tariff to the licensing authority in line with the District tariff by-law or tariff policy in terms of MFMA (Act no. 56 of 2003) and NEMA:QA (chapter 5 (37))

5. NATURE OF PROCESS

5.1. Process Description

Flare	Description	Products predominantly flared
Main factory flares (x4)	Flares for gas combustion with liquid seals at base and designed for steam assisted smokeless flaring. (Safe outlet for the overpressure protection systems of the upstream Synfuels factory)	Hydrogen, Carbon Monoxide, Methane, Ethane, Propane, Butane, Ethylene, Propylene, C5 to C6 Hydrocarbons.
Ammonia flares (x2)	Flares for gas combustion (breathing losses on ammonia & propylene tanks, and ammonia loading losses)	Ammonia, and propylene
Dragon Flare(x1)	Ground flare for liquid hydrocarbon combustion	Off specification alcohols & carbonyls
Evergreen Flare(x1)	Ground flare for liquid hydrocarbon combustion	Off specification intermediate fuel components

Most flaring except for the dragon flare is used for the destruction of off gases during emergency situations and not for incineration purposes. The dragon flare is operated for Sasol Solvents. The evergreen flare is used to flare for the tank farms.

Bulk hydrocarbon storage facility

Facilities for storage, transfer and blending of various liquid materials. Transfer includes bulk handling and dispatch of product, by means of pipeline, road and rail tanker and storage of volatile chemicals. The product stored can be classified as intermediate as well as final product for dispatch.


LICENSING OFFICER

Govan Mbeki/ Sasol Oil (Pty) Ltd 0019/2014/F01 27 March 2014

5.2. Listed activity or activities

Category of Listed Activity	Sub-category of the Listed Activity	Listed Activity Name	Description of the Listed Activity
2	2.4	Storage and Handling of Petroleum Products	Petroleum product storage tanks and product transfer facilities, except those used for liquefied petroleum gas
8	8.1	Thermal Treatment of General and Hazardous Waste	Facilities where general and hazardous waste are treated by the application of heat

5.3. Unit process or processes

Unit Process	Function of Unit Process	Batch or Continuous Process
Main flares		
4 (four) main factory flares	A system consisting of 4 flares (2 West and 2 East) to collect and completely incinerate off-gases, emergency venting	Batch
2 (two) ammonia flares	Emergency venting from high pressure tank farm	Batch
1 (one) ground level flare system West	A system utilized for the burning of mixed alcohols in a pit flare burner at low level	Batch
1 (one) evergreen flare	A system is used to flare for the tank farms.	Batch
Storage facility		
056	Storage of components, final products and blending	Continuous
256	Storage of components and final products	Continuous
257 / 057	Liquefied gases	Continuous
057	Loading of products and gasses	Continuous


LICENSING OFFICER

Govan Mbeki/ Sasol Oil (Pty) Ltd 0019/2014/F01 27 March 2014

5.4. Hours of operations

Unit Process / Plant	Operating Hours (e.g. 07h00 – 17h00)	No. Days Operation per Year
All flares (x 8)	24 hours	365 days
4 (four) main factory flares	24 hours	365 days
2 (two) ammonia flares	24 hours	365 days
1 (one) ground level flare system West	24 hours	365 days
1 (one) evergreen flare	24 hours	365 days

Storage of hydrocarbons		
056 Tank farm West	24 hours	365 days
256 Tank farm East	24 hours	365 days
257 / 057 High Pressure tankfarm	24 hours	365 days
057	24 hours	365 days

5.5. Graphical Process Information (to be provided seven days after date of issue)

6. RAW MATERIALS AND PRODUCTS

6.1. Raw materials used

Raw Material Type	Maximum Permitted Consumption Rate (Volume)	Units (quantity/period)
Main flares		
4 (four) main factory flares		
Hydrogen, Carbon Monoxide, Methane, Ethane, Propane, Butane, Ethylene, Propylene, C5 to C6 Hydrocarbons.	In line with maximum and safety requirements per flare	t/h
Ground level flares		
Off specification alcohols & carbonyls	In line with maximum and safety requirements per flare	m ³ /h
Ammonia flares		
Ammonia	In line with maximum and safety requirements per flare	t/h
Propylene	In line with maximum and safety requirements per flare	t/h
Evergreen flare		
Off specification intermediate fuel components	In line with maximum and safety requirements per flare	m ³ /h
Storage of hydrocarbons		

LICENSING OFFICER

Govan Mbeki/ Sasol Oil (Pty) Ltd 0019/2014/F01 27 March 2014

Various intermediate liquid material	Varying as and when required for safety purposes	m ³ /h
056 Tank farm West		
Various intermediate liquid material	In line with maximum and safety requirements per storage	m ³ /h
256 / 257 Tank farm East and High Pressure		
Various intermediate liquid material	In line with maximum and safety requirements per storage	m ³ /h
257 / 057		
Various intermediate liquid material	In line with maximum and safety requirements per storage	m ³ /h
Various intermediate liquid material	In line with maximum and safety requirements per storage	m ³ /h
056 Tank farm West		
Various intermediate liquid material	In line with maximum and safety requirements per storage	m ³ /h

6.2. Production rates

Energy Source	Actual Consumption Rate (Volume)	Units (quantity/period)	Sulphur Content of Fuel (%) (if applicable)	Ash Content of Fuel (%) (if applicable)		
No Production						

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.

6.3. Materials used in energy sources

Energy Source	Actual Consumption Rate (Quantity)	Units (quantity/period)	Material Characteristics
Main flares			
Fuel gas	Indicate minimum fuel usage	m ³ /h	
Propane	Indicate minimum usage	m ³ /h	

6.4. Sources of atmospheric emission

6.4.1. Point source parameters

[256 / 257 Tank farm East and High Pressure & 056 Tank farm west]

Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Vapour pressure (kPa)
1	56 TK-1402			10.74	60
2	256 TK-9301			20.45	33
3	56TK-0107			14.25	45
4	56TK-0216			7.25	16
5	256TK-3812			7.25	>14
6	256 TK 3301			14.85	29
7	56TK-3812			7.25	16
8	56TK-3301			14.85	32
9	56TK-3721			7.25	>14
10	256TK-3721			7.25	36
11	256TK-0148			11.87	23
12	256TK-3601			11.87	20
13	256TK-3602			9.60	>14
14	256TK-3706			7.25	>14
15	256TK-3811			7.25	>14
16	256TK-3851			6.40	48
17	256TK-3705			7.22	>14

LICENSING OFFICER

Govan Mbeki/ Sasol Oil (Pty) Ltd 0019/2014/F01 27 March 2014

Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Vapour pressure (kPa)
18	256TK-3851			6.40	>14
19	256TK-3602			9.60	>14
20	56TK-7301			7.50	>14
21	56TK-3706			7.25	>14
22	56TK-7302			7.50	>14
23	56TK-3601			11.89	40
24	56TK-3603			11.87	19
25	256TK-3850			6.40	>14
26	56TK-3602			9.60	46
27	56TK-3201			14.63	105
28	56TK-7303			12.80	>14
29	56TK-3811			7.25	20
30	56TK-3705			7.25	>14
31	56TK-3812			7.25	>14
32	56TK-3811			7.25	>14
33	256TK-0143			11.97	>14
34	256TK-3202			14.63	79
35	256TK-3201			14.63	80
36	56TK-0130			10	<14
37	56TK-0143			11.97	<14
38	56TK-0146			11.97	<14

LICENSING OFFICER

Govan Mbeki/ Sasol Oil (Pty) Ltd 0019/2014/F01 27 March 2014

Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Vapour pressure (kPa)
39	56TK-0203			11.97	<14
40	56TK-3709			4.85	<14
41	56TK-3710			4.85	<14
42	56TK-3713			4.85	<14
43	56TK-3714			4.85	<14
44	56TK-3721			7.22	<14
45	56TK-3835			11.97	<14
46	256TK-3713			4.85	>14
47	256TK-3714			4.85	>14
48	256TK-3835			11.97	>14
49	256TK-1401			10.7	60
50	256TK-1402			10.7	60
51	256TK-2902			14.8	55
52	256TK-3401			11.8	<14
53	256TK-3402			11.8	<14
54	256TK-9301			20.4	33
55	256TK-9302			20.4	33

LICENSING OFFICER
Govan Mbeki/ Sasol Oil (Pty) Ltd 0019/2014/F01 27 March 2014

Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Vapour pressure (kPa)
56	56TK-0113			14.35	>14
57	56TK-0121			9	<14
58	56TK-0122			9	<14
59	56TK-0214			8	>14
60	56TK-1401			10.70	<14
61	56TK-1402			10.70	<14
62	56TK-1601			9.60	35
63	56TK-2901			14.80	21
64	56TK-2902			14.80	21
65	56TK-3202			14.60	80.2
66	56TK-3401			11.80	>14
67	56TK-3402			11.80	<14
68	56TK-3901			12.80	>14



LICENSING OFFICER

Govan Mbeki/ Sasol Oil (Pty) Ltd 0019/2014/F01 27 March 2014

Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Vapour pressure (kPa)
69	56TK-3902			12.80	<14
70	56TK-2903			26	<14
71	56TK-3501			14.35	<14
72	256TK-3301			14.35	32
73	256TK-3001			14.75	<14
74	256TK-2811			11.12	>14
75	256TK-2812			11.12	>14
76	56TK-3305			9.50	<14
77	256TK-3320			12.19	>14
78	56TK-3321			12.17	<14
79	56TK-3322			12.17	<14
80	56TK-3308			9.50	<14
81	56TK-3309			9.50	<14
82	56TK-1508			9	<14
83	256TK-1508			9	>14
84	56TK-1505			8.38	>14
85	256TK-1505			8	<14
86	56TK-1414			7	<14
87	56TK-1501			11.20	<14
88	56TK-1502			11.20	>14

LICENSING OFFICER

Govan Mbeki/ Sasol Oil (Pty) Ltd 0019/2014/F01 27 March 2014

Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Vapour pressure (kPa)
89	256TK-1501			11.88	>14
90	256TK-1502			11.88	<14
91	56TK-3005			14.25	<14
92	56TK-3006			14.25	<14
93	256TK-3005			15.66	<14
94	256TK-3006			15.66	<14
95	56TK-3521			9.56	>14
96	256TK-2801			11.87	<14
97	256TK-2901			14.85	<14
98	256TK-2904			14.75	<14
99	56TK-3304			20.10	<14
100	256TK-3852			20.10	<14
101	256TK-3001			14.75	<14
102	256TK-3002			9.60	<14
103	56TK-0101			11.87	<14
104	56TK-0102			11.87	<14
105	56TK-0103			11.87	<14
106	56TK-0105			21.44	<14
107	56TK-0106			14.25	<14

LICENSING OFFICER

Govan Mbeki Sasol Oil (Pty) Ltd 0019/2014/F01 27 March 2014

Point Source code	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Vapour pressure (kPa)
108	256TK- 0104			11.87	<14
109	256TK- 0108			14.72	<14
110	56TK- 3010				<14
111	56TK- 0109			12.22	<14
112	56TK- 0110			12.22	<14
113	256TK- 0216			7.25	<14
114	56TK-0112			14.35	<14
115	258TK-B901			11	<14
116	258TK-B906			9.50	<14
117	Rail point 7 and 10 (to 2/56TK0216)			1	<14

7. APPLIANCES AND MEASURES TO PREVENT AIR POLLUTION

7.1. Appliances and control measures

Associate d Source Code	Appliances		Abatement Equipment Control Technology							Minimum Control Efficiency (%)	Minimum Utilisation (%)
	Appliance / Process Equipment Number	Appliance Serial Number	Appliance Type / Description	Abatement Equipment Technology Name and Model	Abatement Equipment Technology Manufacture Date	Commission Date	Date of Significant Modification / Upgrade	Technology Type	Design Capacity		
1.1	056 Tank farm West	Not known	HP Tank Farm Flare	NJMV- SR/GR	Not known	Not known	No upgrades	NOA	8385 kg/h	N/a	95 %
1.2	256 / 257 Tank farm East and High Pressure	Not known	HP Tank Farm Flare	NJMV- SR/GR	Not known	Not known	No upgrades	NOA	8385 kg/h	N/a	95%
1.3	257ME-0100	Not known	HP Tank Farm Flare	NJMV- SR/GR	Not known	Not known	No upgrades	NOA	8385 kg/h	N/a	95%
1.4	57ME-0100	Not known	HP Tank Farm Flare	NJMV- SR/GR	Not known	Not known	No upgrades	NOA	8385 kg/h	N/a	95%
	to be provided within six month from issue	Not known	4 (four) main factory flares	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	95%
	to be provided within six month from issue	Not known	2 (two) ammonia flares	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	95%
	to be provided within six month from issue	Not known	1 (one) ground level flare system West	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	to be provided within six month from issue	95%

LICENSING OFFICER
Govan Mbeki Sasol Oil (Pty) Ltd 00192014/F01 27 March 2014

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

Point Source Code	Pollutant Name	Maximum Release Rate		Average Period	Duration of Emissions
		(mg/Nm ³)	Date to be Achieved By		
All sources	VOCs (non-thermal)	40 000	1 April 2015	24 hours	Continuous

Leak detection and repair (LDAR) program and fugitive management plan (FMP) approved by the licensing authority to be instituted immediately.

7.3. Point source – maximum emission rates (under start up, maintenance and shut-down conditions)

Point Source Code	Pollutant Name	Maximum Release Rate		Averaging Period	Maximum Gas Volumetric Flow (m ³ /hr)	Maximum Gas Exit Velocity (m/s)	Emission Hours	Maximum Permitted Duration of Emissions
		(mg/Nm ³)	Date to be Achieved By					
Not Applicable								

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 code	Emission Sampling / Monitoring Method	Sampling Frequency	Sampling Duration	Parameters to be Measured	Parameters to be Reported	Reporting Frequency	Conditions under which Monitoring could be Stopped
4 (four) main factory flares	As per the approved management plan from 1 April 2016	Annual	In line with NEMA:QA Gazette No. 37054 (Annexure A)	VOCs	VOCs	Annual	Instruction from the Licensing Authority
2 (two) ammonia flares	As per the approved management plan from 1 April 2016	Annual	In line with NEMA:QA Gazette No. 37054 (Annexure A)	VOCs	VOCs	Annual	Instruction from the Licensing Authority
1 (one) ground level flare system West	As per the approved management plan from 1 April 2016	Annual	In line with NEMA:QA Gazette No. 37054 (Annexure A)	VOCs	VOCs	Annual	Instruction from the Licensing Authority
1 (one) evergreen flare	As per the approved management plan from 1 April 2016	Annual	In line with NEMA:QA Gazette No. 37054 (Annexure A)	VOCs	VOCs	Annual	Instruction from the Licensing Authority

7.5. Routine reporting and record-keeping

Complaints register

The licence holder must maintain a complaints register at its premises, and such register must be made available for inspections. The complaints register must include the following information on the complainant, namely, the name, 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 with each component indicated as may be necessary:

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

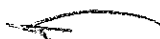
The licensing authority must also be provided with a copy of the complaints register. The record of a complaint must be kept for at least 5 (five) years after the complaint was made.

Annual reporting

The licence holder must complete and submit to the licensing authority an annual report. 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 60 (sixty) days after the end of each reporting period. The annual report must include, amongst others, the following items:

- (a) Pollutant emissions trend;
- (b) Compliance audit report(s);
- (c) Major upgrades projects (i.e. abatement equipment or process equipment); and
- (d) Greenhouse gas emissions.
- (e) Action taken to address complaints received
- (f) 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.



LICENSING OFFICER

Govan Mbeki Sasol Chemical Industries Pty / Sasol Oil/0021/2014/F01 27 March 2014

7.6. Investigation

Investigation	Purpose	Completion Date
Leak Detection (LDAR)	To identify, distinguish which leaks are emitting pollutants to the Atmosphere.	12 months from date of issue
Fugitive Gases (FMP)	To identify fugitive emissions sources and develop fugitive emission management plan	12 months from date of issue
On flaring	<p>To develop a flaring management plan to be approved by authority to ensure proper and efficient disposal of gases through complete burning process. The plan must include but not limited to:</p> <ul style="list-style-type: none"> a) flow rate; b) indicate the products being disposed; c) the efficiency of the destruction <p>To investigate the destruction efficiency of gases managed through the flares as abatement technology.</p>	<p>12 months from date of issue</p> <p>12 months from date of issue</p>

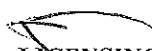
8. DISPOSAL OF WASTE AND EFFLUENT ARISING FROM ABATEMENT EQUIPMENT CONTROL TECHNOLOGY

Source Code / Name	Waste / Effluent Type	Hazardous Components Present	Method of Disposal
Not Applicable			

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.

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

Failure to comply with any of the above conditions and requirements in terms of Chapter 7 Section 51 including Chapter 8 Section 53 - 55 of NEMAQA (Act no. 39 of 2004) 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 61 of 2003, Chapter 7 Section 28, 32, 33 and 34 of the National Environmental Management Act 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 the By-laws.



LICENSING OFFICER

Govan Mbeki Sasol Chemical Industries Pty / Sasol Oil/0021/2014/I:01 27 March 2014

APPEAL OF LICENCE

10.1 The Licence Holder must notify every registered interested and affected party, in writing and within ten (10) days, of receiving the Department'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 section 43 of the National Environmental Management Act (NEMA), 107 of 1998, as amended;

10.2.2 Advise the interested and affected parties that a copy of the Atmospheric Emission License and reasons for the decision will be furnished on request;

10.2.3 An appeal against the decision must be lodged in terms of section 43 of the NEMA, Act 107 of 1998, as amended, from the date of this license, with:

Municipal Manager,
PO Box 1748,
Ermelo,
Tel No. 017-8117000,
Fax No. 017-811 1207;

and

10.3. Specify the date on which the licence was issued.

11. REVIEW OF ATMOSPHERIC EMISSION LICENCE

In terms of chapter 5 (41)(1)&(2) NEMAQA (Act no. 39 of 2004), Licence is issued which will be reviewed within five years from date of issue, after which it will or will not be amended and a Atmospheric Emission licence be issued valid for 5 years from date of issue.



LICENSING OFFICER

Govan Mbeki Sasol Chemical Industries Pty / Sasol Oil/0021/2014/I*01 27 March 2014

