



Sasol Chemical Industries (PTY) Ltd

Sasol Ekandustria Operations

AEL No: 9/16/1/2/10/R

Annual Emission Report

Prepared for

City of Tshwane Metropolitan Municipality

2 September 2014

Reporting period: July 2013 – June 2014

Date Submitted: 2 September 2014

DECLARATION

Unless otherwise specified in the body of the report, Sasol Chemical Industries (Sasol Ekandustria Operations), certifies that the sampling campaign for periodic emission monitoring, was conducted during normal plant operating conditions.

2 September 2014

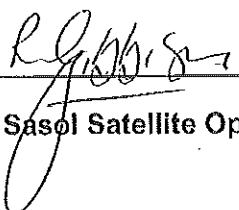
Date



Emission Control Officer: Ristoff van Zyl

2 September 2014

Date



Vice President: Sasol Satellite Operations - Ekandustria:
Raymond Gibbison

EXECUTIVE SUMMARY

The content of this report is in alignment with the requirements of section 7.6 of the Atmospheric Emission Licence (AEL), which include the following:

- Pollutant emissions trends¹
- Compliance audit reports
- Major upgrades projects (i.e. abatement equipment or process equipment)
- Greenhouse gas emissions

The information pertaining to these items above are addressed in the relevant subsection in the body of the report.

Sasol Ekandustria Operations complied with its Atmospheric Emission License requirements.

¹ Please note that there are no pollutant emissions trends available for the initial report.

REPORT DETAILS



REFERENCE	FY14 Annual Emission Report – 9/16/1/2/10/R	
REPORT TITLE	Annual Emission Report	
DATE SUBMITTED:	2 September 2014	
PREPARED FOR:	City of Pretoria Metropolitan Municipality Pretoria Gauteng (Licencing Authority)	
PREPARED BY:	Sasol Chemical Industries (PTY) Ltd : 486 Brandbach road Ekandustria Bronkhorstpruit Tel: +27 (0)16 920 4913 E-mail: ristoff.vanzyl@sasol.com	
DESCRIPTION OF SITE (Erf)	Portion 2, Lunsriem 612 JR	
INDUSTRY SECTOR	Explosives Manufacturing	
SITE COORDINATES	Latitude 28.689004E Longitude 25.690537S	
SIGNED:	Ristoff van Zyl	Signed: 
APPROVER:	Raymond Gibbison	Signed: 

TABLE OF CONTENTS

Contents

ANNUAL EMISSION REPORT	1
EXECUTIVE SUMMARY	3
1 INTRODUCTION	7
2 SERVICE PROVIDERS	8
2.1 SGS Environmental Services	8
3 MONITORING AND SAMPLING METHODOLOGY	9
4 RESULTS	10
4.1 Pollutant emissions	10
4.2 Compliance audit reports	11
4.3 Major upgrades projects	12
4.4 Greenhouse gas emissions	12
5 NON COMPLIANCE	12
6 CONCLUSIONS	12

ACRONYMS

The following abbreviations appear in this report:

US EPA	United States Environmental Protection Agency
GHG	Greenhouse gas
PM	Particulate Matter
VOC	Volatile Organic Compounds
NO _x	Nitrogen oxides
NO ₂	Nitrogen dioxide
NO	Monoxide of nitrogen
SO ₂	Sulphur dioxides
CO	Carbon monoxide
CO ₂	Carbon dioxides

1 INTRODUCTION

Sasol Chemical Industries (Pty) Ltd (Sasol Ekandustria Operations) is required to submit its annual atmospheric emissions compliance report after the closure of its financial year end.

Based on these conditions, stipulated within Sasol Ekandustria Operations' Atmospheric Emission License, as well as the condition stipulated within Section 17 of the Minimum Emission Standards, Sasol herewith submits its annual compliance monitoring report for its Ekandustria operations, License number 9/16/1/2/10/R.

The report covers the reporting period from July 2013 to June 2014. Methylamine and isokinetic emissions monitoring were conducted by an Independent service provider, SGS. Since an accreditation system for stack sampling is not in place, the Service Provider could not adhere to this requirement, however they have expressed their desire to be accredited as soon as the accreditation system has been established.

A comparison with license conditions will be made to prove compliance with Sasol's emission limits as specified within its Atmospheric Emission License.

2 SERVICE PROVIDERS

In accordance with Section 21 (GN 893:2013), SGS South Africa and LEVEGO were the independent companies who have performed the necessary emissions testing for Sasol, upon which the results / reports are based. The results from the sampling campaign are presented in the relevant section of the report (results section).

2.1 SGS Environmental Services

The services provided by SGS South Africa for source emission testing are as follows:

- Basic stack emission testing
- Automatic Isokinetic stack sampling for compliance, commissioning, process control and efficiency testing
- Fugitive and area specific emission assessments
- Vent emission testing
- Reports based on analysis of dust, SO₂, NO₂, metals, VOCs, SVOCs, dioxins and furans, chlorides and fluorides.

Their contact details appear in Table 2.1.1 below

Table 2.1.1: SGS Contact details

SGS Contact details	
Physical address	58 Melville Street, Booysens Johannesburg, 2135 South Africa
Postal address	P.O. Box 82582, Southdale Johannesburg, 2135 South Africa
Telephone No:	+27 11 681 2500
Fax No	+27 11 433 365
Email	envi.africa@sgs.com

3 MONITORING AND SAMPLING METHODOLOGY

No Continuous emissions monitoring is conducted on the Ekandustria site. All ad hoc sampling is conducted by third party service providers according to international acceptable sampling methodologies. The results for ad hoc sampling/monitoring are included within the table below.

4 RESULTS

4.1 Pollutant emissions

Table 4.1.1: Sampling results

Point source	Volumetric flow rate (Nm ³ /h)	Pollutant	Mass flow (kg/h)	Concentration (mg/Nm ³)	Limit value on AEL (mg/Nm ³)	Sampling method
MMA Stack	1 100	Methyl amine	Below detection	Below detection (<1.14)	10	NIOSH1500/1501
Lead melting furnace	1 830	Particulates	0.02	10.8	30	USEPA Method 5
		Lead	0.004	2	2	USEPA Method 29

4.2 Compliance audit reports

Audit finding	Corrective action taken	Status
Compliance audit reports were not conducted on the AELs during the 2013/2014 Financial year due to the licenses only being received in March 2014. This section will be completed and reported on during the next financial year's annual compliance report. However, it is confirmed that Sasol is committed to ongoing internal reviews of its licence conditions during the year and in the unfortunate event that there are non-compliances identified, these will be appropriately reported as required by applicable regulatory requirements.		

4.3 Major upgrades projects

Project description	Planned completion date	Status
None		

4.4 Greenhouse gas emissions

Total Direct CO _{2eq} emissions	0 kt*
--	-------

*: Apart from Burning Ground emissions which is at this stage not quantified, no direct CO₂ emissions occurs from the facility.

5 NON COMPLIANCE

Non-compliance description	Action to be implemented	Completion date	Status
None			

6 CONCLUSIONS

From the information supplied in this report, it can be concluded that Sasol's Ekandustria Operations complied with its Atmospheric Emission License conditions.