

## DEPARTMENT OF ENVIRONMENTAL AFFAIRS

NO. 1154

13 SEPTEMBER 2019

**NATIONAL ENVIRONMENTAL MANAGEMENT: AIR QUALITY ACT, 2004  
(ACT NO. 39 OF 2004)**  
**PROPOSED AMENDMENT OF THE NATIONAL GREENHOUSE GAS EMISSION  
REPORTING REGULATIONS**

I, Barbara Dallas Creecy, Minister of Environment, Forestry and Fisheries hereby under section 53(aA), (o) and (p) read with section 12 and 55(3) (a) of the National Environmental Management: Air Quality Act, 2004 (Act No.39 of 2004) give notice of my intention to amend the National Greenhouse Gas Emission Reporting Regulations, 2016 published under Government Notice 275 in Government Gazette 40762 of 03 April 2017, in the Schedule hereto.

Members of the public are invited to submit to the Minister, within 30 days after the publication of the notice in the *Gazette*, written representations or comments to the following addresses:

By post:                   The Director-General: Department of Environmental Affairs  
                                  Attention: Mr Jongikhaya Witi  
                                  Private Bag X447  
                                  Pretoria, 0001

By hand:                   Ground Floor (Reception), Environment House, 473 Steve Biko Road,  
                                  Pretoria.

By email:                 [GHGReporting@environment.gov.za](mailto:GHGReporting@environment.gov.za) or by fax: 086 615 4321.

Any inquiries in connection with the draft regulations can be directed to Mr Jongikhaya Witi at 012 399 9048

Comments received after the closing date may not be considered.



**BARBARA DALLAS CREECY**  
**MINISTER OF ENVIRONMENT, FORESTRY AND FISHERIES**

## SCHEDULE

### DEFINITIONS

1. In these Regulations 'the Regulations' means the National Greenhouse Gas Emission Reporting Regulations, 2016 published under Government Notice 275 in the Government Gazette 40762 of 3 April 2017.

### Amendment of regulation 1 of the Regulations

2. Regulation 1 of the Regulations is hereby amended—

- (a) by the substitution for the definition of 'boiler' of the following definition:

**"boiler"** means a combustion installation designated to heat water. In terms of these regulations, a boiler is referred to as a stationery combustion installation.

- (b) by the substitution for the definition of 'competent authority' of the following definition:

**"competent authority"** means the National Inventory Unit in the Chief Directorate: Climate Change Monitoring and Evaluation at the Department of Environmental Affairs."

- (c) by the substitution of the definition of 'data provider' of the following definition:

**"data provider"** means any natural or juristic person conducting any activity listed in Annexure 1 to these Regulations, including—

- (a) its holding company or corporation or legal entity, registered in South Africa in accordance with the legislation of the Republic of South Africa;
- (b) all its subsidiaries and legally held operations, including joint ventures and partnerships where it has a controlling interest, or is nominated as the responsible entity for the purpose of reporting under these Regulations; and
- (c) all facilities generally over which it has operational control, which are not part of another data provider for these Regulations.

- (d) by the substitution of the definition of 'greenhouse gas' of the following definition:

**"greenhouse gas"** means any one of the following gases: Carbon dioxide (CO<sub>2</sub>), Methane (CH<sub>4</sub>), Nitrous oxide (N<sub>2</sub>O) Sulphur hexafluoride (SF<sub>6</sub>), Perfluorocarbons (PFCs), Hydro fluorocarbons (HFCs); including any additional greenhouse gas that may be identified by the Minister;

(e) by the insertion after the definition of 'Global Warming Potential (GWP)' of the following definition:

**“independent assessor”** means a natural or juristic person not having either a real or an apparent conflict of interest and not being part of, or under the control of, the organization to which the internal audit activity belongs.”.

(f) by the insertion after the definition of 'operational control' of the following definition:

**“parameter”** means any other input variable, other than activity data, required in terms of the methodologies prescribed in the Technical Guidelines for Monitoring, Reporting, Verification, and Validation of Greenhouse Gas Emissions by industry.”.

(g) by the insertion after the definition of 'South African Air Quality Information System' or 'SAAQIS' of the following definition:

**“Stationery Combustion Installation”** means an installation with design capacity rated in terms of thermal heat input per unit”.

(h) by the substitution for the definition of 'verification' of the following definition:

**“verification”** refers to the collection of activities and procedures that can be followed during the planning and development, of after completion of reported greenhouse gas emissions data through the NAEIS or submitted manually, that can help to establish its reliability for the intended applications of that inventory.”

### **Amendment of regulation 2 of the Regulations**

3. Regulation 2 of the Regulations is hereby amended by the substitution for paragraph (b) of the following paragraph:

“(b) for the Republic of South Africa to meet its international reporting obligations under the United Nations Framework Convention on Climate Change (UNFCCC) and instrument treaties to which it is bound; and”.

### **Substitution of regulation 4 of the Regulations**

4. The following regulation is hereby substituted for regulation 10 of these Regulations:

(1) For the purposes of these Regulations, a data provider is classified as any natural or juristic person in operational control of, or conducting any activity, that meets capacity threshold, listed in Annexure 1 to these Regulations.

(2) Notwithstanding subregulation (1), the Minister may by notice in the *Gazette*, identify additional greenhouse gases, sources and associated data providers and, in writing, require such data providers to register and submit data for their emissions within a specified period to the competent authority."

### **Amendment of regulation 5 of the Regulations**

5. Regulation 5 of the Regulation is hereby amended—

(a) by the substitution for subregulation (1) of the following subregulation:

"(1) A person classified as a data provider in terms of regulation 4(1) of these Regulations must register all facilities where it conducts activities listed in Annexure 1 by providing the relevant information as listed in Annexure 2 to these Regulations, within 30 days after the commencement of these Regulations or within 30 days after commencing such an activity after the commencement of these Regulations."

(b) by the insertion after subregulation (1) of the following subregulations:

"(1A) Whilst reporting shall be done at facility level and also aggregated at data provider level, the threshold to trigger registration is applicable at data provider level.

(1B) In a case where there are similar installations across a number of IPCC emission sources, the thresholds shall be considered across IPCC emission sources listed in Annexure 1 to these Regulations."

(c) by the substitution for paragraph (a) of subregulation (3) of the following paragraph:

"(a) on the greenhouse gas emissions reporting module within the NAEIS;"

(d) by the addition after subregulation (4) of the following subregulation:

"(4) In cases where subregulation (3) (b) apply, the Minister must issue a directive or instruction by way of notice in the *Gazette*, to call for manual registration."

### **Amendment of regulation 6 of the Regulations**

6. Regulation 6 of the Regulation is hereby amended—

(a) by the substitution for subregulation (1) of the following subregulation:

"(1) a data provider must, notify the competent authority, in writing, of any change in respect of the data provider's registration details as listed in Annexure 2 to these Regulations within 30 days from the date the data provider became aware of such change occurring."

(b) by the substitution for subregulation (3) of the following subregulation:

"(3) A person to whom ownership or operational control of a facility or activity is transferred as contemplated in subregulation (2) must, within 30 days after taking ownership or operational control of the facility, register as a data provider, in terms of subregulation 5(1A) of these Regulations.

(c) by the substitution for subregulation (4) of the following subregulation:

"(4) Registration of a data provider in terms of regulation 5(1A) is deemed withdrawn once the competent authority has, within 30 days, acknowledged receipt of notification, in writing, provided by a data provider in terms of subregulation (2)."

### **Amendment of regulation 7 of the Regulations**

7. Regulation 7 of the Regulations is hereby amended—

(a) by the substitution for subregulation (1) of the following subregulation:

"(1) A data provider must submit IPCC emission sources as specified in Annexure 1 to these Regulations, for each of its facilities and in accordance with the data and format requirements specified in Annexure 3 to these Regulations, for the preceding calendar year, to the competent authority by 31 March of each year."

(b) by the substitution for subregulation (2) of the following subregulation:

"(2) A data provider must submit the greenhouse gas emissions and activity data, as set out in Annexure 1 to these Regulations, for each of the relevant greenhouse gases, and in accordance with the data and format requirements specified in Annexure 3 to these Regulations, for the preceding calendar year, to the competent authority by 31 March of each year.

(c) by the substitution for subregulation (3) of the following subregulation:

"(3) Reporting in terms of subregulations (1) and (2) must be done at data provider level and at facility level."

(d) by the substitution for subregulation (4) of the following subregulation:

"(4) Where 31 March falls on a Saturday, Sunday or public holiday, the submission deadline is the next working day."

(e) by the addition after subregulation (5) of the following subregulations:

"(5) The reporting contemplated in subregulations (2) and (3) must be done:

(a) on the greenhouse gas emissions reporting module within the NAEIS; or"

(b) in cases where the NAEIS is unable to meet the reporting requirements, by submitting the information specified in Annexure 3 to these Regulations in an electronic format to the competent authority."

"(6) In cases where subregulation (3) (b) applies, the Minister must issue a directive or instruction by way of notice in the *Gazette* to call for manual reporting."

### **Amendment of regulation 8 of the Regulations**

**8. Regulation 8 of the Regulations is hereby amended—**

(a) by the substitution for subregulation (1) of the following subregulation:

"(1) A data provider must define its reporting boundaries based on operational control.

(b) by the substitution for subregulation (2) of the following subregulation:

"(2) A data provider must include greenhouse gas emissions from normal operating conditions and upset conditions, including start-up and shut-down and emergency situations, over the reporting period."

### **Substitution of regulation 9 of the Regulations**

**9. The following regulation is hereby substituted for regulation 9 of the Regulations:**

#### **"Completeness**

**9.** A data provider's monitoring and reporting must be complete and cover all process, fugitive and combustion emissions from all greenhouse gas emission sources and source streams belonging to activities listed in Annexure 1 of these

Regulations, taking into account the capacity thresholds specific to the different activities, as listed in Annexure 1 to these Regulations."

### **Amendment of regulation 10 of the Regulations**

**10. Regulation 10 of the Regulations is hereby amended—**

(a) by the substitution for subregulation (1) of the following regulation:

"(1) A data provider must determine the specific emissions to be reported on, as contemplated in regulation 7 of these Regulations, according to the tiers specified for the relevant categories in Annexure 1 to these Regulations, using the methods set out in the *Technical Guidelines for Monitoring, Reporting, Verification and Validation of Greenhouse Gas Emissions by Industry*."

(b) by the substitution for subregulation (2) of the following subregulation:

"(2) Where a data provider reasonably believes that an emission factor referred to in the *Technical Guidelines for Monitoring, Reporting, Verification and Validation of Greenhouse Gas Emissions by Industry* for a particular activity is not appropriate under the specific conditions of greenhouse gas emission, such a data provider must make a submission to the competent authority, by providing the information set out in Annexure 4 to these Regulations, requesting a review of the applicable emission factor."

(c) by the substitution for paragraph (a) of subregulation (3) for the following paragraph:

"(a) approved by the competent authority, the accepted method will be included in the *Technical Guidelines for Monitoring, Reporting, Verification and Validation of Greenhouse Gas Emissions by Industry*; or

(d) by the substitution for paragraph (b) of subregulation (3) of the following paragraph:

"(b) not approved, the data provider must submit the emissions and related data, using a method from the *Technical Guidelines for Monitoring, Reporting, Verification and Validation of Greenhouse Gas Emissions by Industry*, compliant with subregulation (1)."

## **Substitution of regulation 11 of the Regulations**

11. The following regulation is hereby substituted for regulation 11 of the Regulations:

### **“11. Verification and validation of information**

(1) The competent authority must assess, in accordance with the assessment procedures in the *Technical Guidelines for Monitoring, Reporting, Verification and Validation of Greenhouse Gas Emissions by Industry*, the data submitted by a data provider within 60 days after the submission date.”

(2) The assessment contemplated in subregulation (1) may include:

(a) methods defined in the *Technical Guidelines for Monitoring, Reporting, Verification and Validation of Greenhouse Gas Emissions by Industry*,

(b) earlier submissions,

(c) submissions from similar facilities; and

(d) other independent data.”

(3) A data provider’s submission contemplated in regulation 7 of these Regulations is deemed accepted if the competent authority does not respond to the data provider with questions for clarification or corrections within 60 days from the date of the data provider’s submission.”

(4) If, after the assessment in terms of subregulation (1), the competent authority reasonably believes that the information submitted in terms of these Regulations:

(a) may be of complex nature to assess, or

(b) may not be transparent, complete, or accurate;

the competent authority must instruct, in writing, the data provider to verify and validate the information submitted, and to provide the supporting information required to substantiate the submission within 60 days after receiving the written instruction from the competent authority. “

(5) Where a data provider fails to provide information, or where the data provider provides insufficient information in terms of regulation 7(2) and 7(3), for the purposes of validation and verification, in terms of subregulation (4), the competent authority must undertake one or any combination of the following:

(a) Conduct an on-site facility or installation specific verification and validation of emissions estimated using the methods as set out in the *Technical Guidelines for Monitoring, Reporting, Verification and Validation of Greenhouse Gas Emissions by Industry* by data providers at its discretion; or”

(b) Require the data provider's submission to be subject to verification and validation by an independent assessor in accordance with the mandatory *GHG Emissions Verification and Validation Guidelines*.

(6) A data provider is liable for all costs incurred in compliance with subregulations (4) and (5)."

#### **Amendment of regulation 12 of the Regulations**

12. Regulation 12 of the Regulations is hereby amended—

(a) by the substitution for paragraph (a) of the subregulation (1) of the following paragraph:

"(a) the information is disclosed in compliance with the provisions of any law of the Republic of South Africa;"

(b) by the substitution for paragraph (b) of subregulation (1) of the following paragraph:

"(b) the person is ordered to disclose the information by a court of law of the Republic of South Africa; or"

#### **Amendment of regulation 13 of the Regulations**

13. Regulation 13 is hereby amended—

(a) by the substitution for the heading of the following heading:

**"Record keeping by data provider"**

(b) by the substitution for subregulation (1) of the following subregulation:

"(1) A data provider must ensure transparency of submissions, by archiving all data, measurement reports, algorithms, procedures and technical references used to estimate greenhouse gas emissions."

#### **Substitution of regulation 15 of the Regulations**

14. The following regulation is hereby substituted for regulation 10 of these Regulations:

#### **"TRANSITIONAL ARRANGEMENTS**

15. (1) A data provider may, for a transitional period of up to five years from the date of commencement of the National

Greenhouse Gas Emissions Reporting Regulations, 2016 published under General Notice 275 in the *Government Gazette* 40762 of 3 April 2017, apply either tier 1, tier 2 or tier 3 methodology to the activities listed in Annexure 1 to these Regulations and the supporting *Technical Guidelines for Monitoring, Reporting, Verification and Validation of Greenhouse Gas Emissions by Industry*.

- (2) At the end of the transitional period, a data provider must, after the expiry of a transitional period, use tier methods prescribed to the activities listed in Annexure 1 to these Regulations and the supporting *Technical Guidelines for Monitoring, Reporting, Verification and Validation of Greenhouse Gas Emissions by Industry*.

### **Substitution of regulation 16 of the Regulations**

15. The following regulation is hereby substituted for regulation 16 of the Regulations:

#### **“OFFENCES**

16. A natural or juristic person commits an offence if that person—

(a) provides false or misleading information to the competent authority; or

(b) fails to comply with regulations 4(2), 5(1), 6(1), 6(2), 6(3), 7(1), 7(2), 8(1), 8(2), 9, 10(1), 10(3) b, 11(4), 13 or 15.”

### **Amendment of Table of content of the Regulations**

16. The Table of content of the Regulations is hereby amended by the substitution for item 13 of the following item:

#### **“13. Record keeping by data provider”**

### **Substitution of Annex to the Regulations**

17. The following Annexures are hereby substituted for the Annexures to the Regulations:

## ANNEXURE 1

## LIST OF ACTIVITIES FOR WHICH GHG EMISSIONS MUST BE REPORTED TO THE COMPETENT AUTHORITY

The table below lists all activities, as defined in the 2006 IPCC Guidelines for National Greenhouse Gas Inventories' source categories, where data providers must report greenhouse gas emissions and related activity data. The IPCC Guidelines for National Greenhouse Gas Inventories may be accessed on the IPCC website - [www.ipcc.ch](http://www.ipcc.ch).

A data provider shall report the relevant greenhouse gases and associated activity data for all IPCC source categories where their capacity is equal or above the threshold indicated, using the methods indicated in column 3 of the table below. The *Technical Guidelines for Monitoring, Reporting, Verification and Validation of Greenhouse Gas Emissions by Industry* stipulates the greenhouse gases relevant for each IPCC code.

Where no method is provided and the reporting threshold is reflected as "NA" (not applicable), reporting is not required.

IPCC Code	Category Name	shall report when their total installed capacity for this activity is over the threshold	Category A	
			Threshold <sup>1</sup>	Transitional Arrangement Applicability (Regulation 15)
<b>1</b>	<b>ENERGY</b>			
<b>1A</b>	<b>Fuel Combustion Activities</b>			
<b>1A1</b>	<b>Energy Industries</b>			
<b>1A1a</b>	Main Activity Electricity and Heat Production	Tier 2 or 3	10 MW(th)	<sup>2</sup> YES
<b>1A1b</b>	Petroleum Refining	Tier 2 or 3	10 MW(th)	YES
<b>1A1c</b>	Manufacture of Solid Fuels and Other Energy Industries	Tier 2 or 3	10 MW(th)	YES
<b>1A2</b>	<b>Manufacturing Industries and Construction</b>			
<b>1A2a</b>	Iron and Steel (Including Ferroalloy production)	Tier 2 or 3	10 MW(th)	YES
<b>1A2b</b>	Non-Ferrous Metals	Tier 2 or 3	10 MW(th)	YES
<b>1A2c</b>	Chemicals	Tier 2 or 3	10 MW(th)	YES
<b>1A2d</b>	Pulp, Paper and Print	Tier 2 or 3	10 MW(th)	YES
<b>1A2e</b>	Food Processing, Beverages and Tobacco	Tier 1, 2 or 3	10 MW(th)	NO
<b>1A2f</b>	Non-Metallic Minerals	Tier 2 or 3	10 MW(th)	YES
<b>1A2g</b>	Transport Equipment	Tier 1, 2 or 3	10 MW(th)	NO
<b>1A2h</b>	Machinery	Tier 1, 2 or 3	10 MW(th)	NO
<b>1A2i</b>	Mining and Quarrying	Tier 2 or 3	10 MW(th)	YES
<b>1A2j</b>	Wood and Wood Products	Tier 1, 2 or 3	10 MW(th)	NO
<b>1A2k</b>	Construction	Tier 1, 2 or 3	10 MW(th)	NO
<b>1A2l</b>	Textile and Leather	Tier 1, 2 or 3	10 MW(th)	NO
<b>1A2m</b>	Brick manufacturing:	Tier 1, 2 or 3	4 million bricks a month	NO

<sup>1</sup> These thresholds refer to a combined stationary combustion installation design capacity equal to or above 10 MW(th) net heat input. For example, the combined boiler design capacity for six (6) 2MW(th) boilers is equal to 12 MW(th), which is above the reporting threshold of 10MW(th). Therefore, the data provider has to report greenhouse gas emissions associated with stationary combustion in this case.

<sup>2</sup> A YES implies that a data provider has to apply a tier 2 or tier 3 methodology for the relevant IPCC source code, after 5 years from the date of promulgation of these regulations

IPCC Code	Category Name	shall report when their total installed capacity for this activity is over the threshold	Category A	
			Threshold <sup>3</sup>	Transitional Arrangement Applicability (Regulation 15)
<b>1A3</b>	<b>Transport</b>			
<b>1A3a</b>	Civil Aviation (Domestic and International)	Tier 2 or 3	100 000 litres/year	YES
<b>1A3b</b>	Road Transportation	NA	NA	NO
<b>1A3c</b>	Railways	Tier 2 or 3	100 000 litres/year	YES
<b>1A3d</b>	Water-borne Navigation (Domestic and International)	Tier 2 or 3	100 000 litres/year	YES
<b>1A3e</b>	Other Transportation	NA	NA	NA
<b>1A4</b>	<b>Other Sectors</b>			
<b>1A4a</b>	Commercial/Institutional	Tier 2 or 3	10 MW(th)	YES
<b>1A4b</b>	Residential	Tier 2 or 3	10 MW(th)	YES
<b>1A4c</b>	Agriculture/Forestry/Fishing/Fish Farms	Tier 2 or 3	10 MW(th)	YES
<b>1A5</b>	<b>Non-Specified</b>			
<b>1A5a</b>	Stationary	Tier 2 or 3	10 MW(th)	YES
<b>1A5b</b>	Mobile	NA	NA	NA
<b>1A5c</b>	Multilateral Operations	NA	NA	NA
<b>1B</b>	<b>Fugitive Emissions from Fuels</b>			
<b>1B1</b>	<b>Solid Fuels</b>			
<b>1B1a</b>	Coal Mining and Handling	Tier 2 or 3	none	YES
<b>1B1b</b>	Uncontrolled Combustion, and Burning Coal Dumps	NA	NA	NA
<b>1B1c</b>	Solid Fuel Transformation	Tier 2 or 3	none	YES
<b>1B2</b>	<b>Oil and Natural Gas</b>			
<b>1B2a</b>	Oil	Tier 1, 2 or 3	none	No
<b>1B2b</b>	Natural Gas	Tier 1, 2 or 3	none	No
<b>1B3</b>	<b>Other Emissions from Energy Production</b>	Tier 2 or 3	none	YES
<b>1C</b>	<b>Carbon Dioxide Transport and Storage</b>			
<b>1C1</b>	<b>Transport of CO<sub>2</sub></b>	Tier 1, 2 or 3	none	NO
<b>1C1a</b>	Pipelines	NA	10 000 tonnes CO <sub>2</sub> /year	NO
<b>1C1b</b>	Ships	Tier 1, 2 or 3	10 000 tonnes CO <sub>2</sub> /year	NO
<b>1C1c</b>	Other (please specify)	Tier 1, 2 or 3	10 000 tonnes CO <sub>2</sub> /year	NO
<b>1C2</b>	<b>Injection and Storage</b>			
<b>1C2a</b>	Injection	Tier 1, 2 or 3	10 000 tonnes CO <sub>2</sub> /year	NO
<b>1C2b</b>	Storage	Tier 1, 2 or 3	10 000 tonnes CO <sub>2</sub> /year	NO
<b>1C3</b>	Other	NA	NA	NA
<b>2</b>	<b>INDUSTRIAL PROCESSES AND PRODUCT USE</b>			
<b>2A</b>	<b>Mineral Industry</b>			
<b>2A1</b>	Cement Production	Tier 2 or 3	none	YES
<b>2A2</b>	Lime Production	Tier 2 or 3	none	YES
<b>2A3</b>	Glass Production	Tier 2 or 3	none	YES
<b>2A4</b>	Other Process Uses of Carbonates	Tier 1, 2 or 3	none	NO

<sup>3</sup> If the threshold for a specific IPCC source category in this table is reflected as none, it means that the data provider has to report activity data and greenhouse gas emissions, irrespective of the size of greenhouse gas emissions and the scale of the operation of the activity.

IPCC Code	Category Name	shall report when their total installed capacity for this activity is over the threshold	Category A	
			Threshold <sup>1</sup>	Transitional Arrangement Applicability (Regulation 15)
2A4a	Ceramics	Tier 1, 2 or 3	50 tonnes a month	NA
2A4b	Other Uses of Soda Ash	Tier 1, 2 or 3	50 tonnes a month	NA
2A4c	Non-Metallurgical Magnesia	Tier 2 or 3	none	YES
	Production			
2A4d	Other (please specify)	Tier 1, 2 or 3	20 tonnes a month	No
2A5	Other (please specify)	NA	NA	NA
2B	Chemical Industry			
2B1	Ammonia Production	Tier 2 or 3	none	YES
2B2	Nitric Acid Production	Tier 2 or 3	none	YES
2B3	Adipic Acid Production	Tier 2 or 3	none	YES
2B4	Caprolactam, Glyoxal and Glyoxylic	Tier 2 or 3	none	YES
	Acid Production			
2B5	Carbide Production	Tier 2 or 3	none	YES
2B6	Titanium Dioxide Production	Tier 2 or 3	none	YES
2B7	Soda Ash Production	Tier 2 or 3	none	YES
2B8	Petrochemical and Carbon Black	Tier 2 or 3	none	YES
	Production			
2B8a	Methanol	Tier 2 or 3	none	YES
2B8b	Ethylene	Tier 2 or 3	none	YES
2B8c	Ethylene Dichloride and Vinyl	Tier 2 or 3	none	YES
	Chloride Monomer			
2B8d	Ethylene Oxide	Tier 2 or 3	none	YES
2B8e	Acrylonitrile	Tier 2 or 3	none	YES
2B8f	Carbon Black	Tier 2 or 3	none	YES
2B9	Fluorochemical Production			
2B9a	By-product Emissions	Tier 1, 2 or 3	none	NO
2B9b	Fugitive Emissions	Tier 1, 2 or 3	none	NO
2B10	Other (Please specify)	Tier 1, 2 or 3	20 tonnes a month	NO
2C	Metal Industry			
2C1	Iron and Steel Production	Tier 2 or 3	none	YES
2C2	Ferroalloys Production	Tier 2 or 3	none	YES
2C3	Aluminium Production	Tier 2 or 3	none	YES
2C4	Magnesium Production	Tier 2 or 3	none	YES
2C5	Lead Production	Tier 2 or 3	none	YES
2C6	Zinc Production	Tier 2 or 3	none	YES
2C7	Other (please specify)	Tier 1, 2 or 3	50 tonnes a month	NO
2D	Non-Energy Products from Fuels and Solvent Use			
2D1	Lubricant Use	NA	NA	NO
2D2	Paraffin Wax Use	NA	NA	NO
2D3	Solvent Use	NA	NA	NO
2D4	Other (please specify)	NA	NA	NO
2E	Electronics Industry			
2E1	Integrated Circuit or Semiconductor	NA	NA	NA
2E2	TFT Flat Panel Display	NA	NA	NA
2E3	Photovoltaics	NA	NA	NA
2E4	Heat Transfer Fluid	NA	NA	NA
2E5	Other (please specify)	NA	NA	NA
2F	Product Uses as Substitutes for Ozone Depleting Substances			
2F1	Refrigeration and Air Conditioning	NA	NA	NA
2F1a	Refrigeration and Stationary Air	NA	NA	NA
	Conditioning			
2F1b	Mobile Air Conditioning	NA	NA	NA
2F2	Foam Blowing Agents	NA	NA	NA
2F3	Fire Protection	NA	NA	NA
2F4	Aerosols	NA	NA	NA
2F5	Solvents	NA	NA	NA
2F6	Other Applications (please specify)	NA	NA	NA
2G	OTHER PRODUCT MANUFACTURE AND USE			

IPCC Code	Category Name	shall report when their total installed capacity for this activity is over the threshold	Category A	
			Threshold <sup>1</sup>	Transitional Arrangement Applicability (Regulation 15)
2G1	Electrical Equipment	NA	NA	NA
2G1a	Manufacture of Electrical Equipment	NA	NA	NA
2G1b	Use of Electrical Equipment (SF6 use)	Tier 1, 2 or 3	2 kg filling quantity	NO
2G1c	Disposal of Electrical Equipment	NA	NA	NA
2G2	SF6 and PFCs from Other Product Uses	NA	NA	NA
2G2a	Military Applications	NA	NA	NA
2G2b	Accelerators	NA	NA	NA
2G2c	Other (please specify)	NA	NA	NA
2G3	N2O from Product Uses	NA	NA	NA
2G3a	Medical Applications	NA	NA	NA
2G3b	Propellant for Pressure and Aerosol Products	NA	NA	NA
2G3c	Other (Please specify)	NA	NA	NA
2G4	Other (Please specify)	NA	NA	NA
2H	Other			
2H1	Pulp and Paper Industry	NA	NA	NA
2H2	Food and Beverages Industry	NA	NA	NA
2H3	Other (please specify)	NA	NA	NA
3	AGRICULTURE, FORESTRY, AND OTHER LAND USE			
3A	Livestock			
3A1	Enteric Fermentation			
3A1a	Cattle	NA	NA	NA
3A1b	Buffalo	NA	NA	NA
3A1c	Sheep	NA	NA	NA
3A1d	Goats	NA	NA	NA
3A1e	Camels	NA	NA	NA
3A1f	Horses	NA	NA	NA
3A1g	Mules and Asses	NA	NA	NA
3A1h	Swine	NA	NA	NA
3A1j	Other (please specify)	NA	NA	NA
3A2	Manure Management			
3A2a	Cattle	NA	NA	NA
3A2b	Buffalo	NA	NA	NA
3A2c	Sheep	NA	NA	NA
3A2d	Goats	NA	NA	NA
3A2e	Camels	NA	NA	NA
3A2f	Horses	NA	NA	NA
3A2g	Mules and Asses	NA	NA	NA
3A2h	Swine	NA	NA	NA
3A2i	Poultry	NA	NA	NA
3A2j	Other (please specify)	NA	NA	NA
3B	Land			
3B1	Forest Land			
3B1a	Forest land Remaining Forest Land	NA	Equal or greater than 1000 but less than 10000 Hectares of Plantations – Registration only	NA
		Tier 2 or 3	Equal or greater than 10 000 Hectares of Plantations– Registration and Reporting	YES
3B1b	Land Converted to Forest Land	NA	Equal or greater	NA

IPCC Code	Category Name	shall report when their total installed capacity for this activity is over the threshold	Category A	
			Threshold <sup>1</sup>	Transitional Arrangement Applicability (Regulation 15)
			than 1000 but less than 10000 Hectares of Plantations – Registration only	YES
		Tier 2 or 3	Equal or greater than 10 000 Hectares of Plantations – Registration and Reporting	
<b>3B2</b>	<b>Cropland</b>			
<b>3B2a</b>	Cropland Remaining Cropland	NA	NA	NA
<b>3B2b</b>	Land Converted to Cropland	NA	NA	NA
<b>3B3</b>	<b>Grassland</b>			
<b>3B3a</b>	Grassland Remaining Grassland	NA	NA	NA
<b>3B3b</b>	Land Converted to Grassland	NA	NA	NA
<b>3B4</b>	<b>Wetlands</b>			
<b>3B4a</b>	Wetlands Remaining Wetlands	NA	NA	NA
<b>3B4b</b>	Land Converted to Wetlands	NA	NA	NA
<b>3B5</b>	<b>Settlements</b>			
<b>3B5a</b>	Settlements Remaining	NA	NA	NA
<b>3B5b</b>	Land Converted to Settlements	NA	NA	NA
<b>3B6</b>	<b>Other Land</b>			
<b>3B6a</b>	Other Land Remaining Other	NA	NA	NA
<b>3B6b</b>	Land Converted to Other Land	NA	NA	NA
<b>3C</b>	<b>Aggregate Sources and Non-CO2 Emissions Sources on Land</b>			
<b>3C1</b>	<b>Emissions from Biomass Burning</b>			
<b>3C1a</b>	Biomass Burning in Forest Lands	NA	NA	NA
<b>3C1b</b>	Biomass Burning in Croplands	NA	NA	NA
<b>3C1c</b>	Biomass Burning in Grasslands	NA	NA	NA
<b>3C1d</b>	Biomass Burning in All Other Land	NA	NA	NA
<b>3C2</b>	Liming	NA	NA	NA
<b>3C3</b>	Urea Application	NA	NA	NA
<b>3C4</b>	Direct N2O Emissions from Managed Soils	NA	NA	NA
<b>3C5</b>	Indirect N2O Emissions from Managed Soils	NA	NA	NA
<b>3C6</b>	Indirect N2O Emissions from Manure Management	NA	NA	NA
<b>3C7</b>	Rice Cultivations	NA	NA	NA
<b>3C8</b>	Other (please specify)	NA	NA	NA
<b>3D</b>	<b>Other</b>			
<b>3D1</b>	Harvested Wood Products	NA	NA	NA
<b>3D2</b>	Other (please specify)	NA	NA	NA
<b>4</b>	<b>WASTE</b>			
<b>4A</b>	<b>Solid Waste Disposal</b>			
<b>4A1</b>	Managed Waste Disposal Sites	Tier 1 or 2	Receiving 5 tonnes per day or a total capacity of 25000 tonnes	NO
<b>4A2</b>	Unmanaged Waste Disposal Sites	Tier 1 or 2	Receiving 5 tonnes per day or a total capacity of 25000 tonnes	NO
<b>4A3</b>	Uncategorised Waste Disposal Sites	Tier 1 or 2	Receiving 5 tonnes per day or a total capacity of 25000 tonnes	NO

IPCC Code	Category Name	shall report when their total installed capacity for this activity is over the threshold	Category A	Transitional Arrangement Applicability (Regulation 15)
			Threshold <sup>1</sup>	
4B	Biological Treatment of Solid Waste	NA	tonnes NA	NA
4C	Incineration and Open Burning of Waste			
4C1	Waste Incineration ( Hazardous and non-hazardous waste)	Tier 1 or 2	1 tonnes per hour	NO
4C0	Waste – Pyrolysis	Tier 2 or 3	100 kg/hour	YES
4C2	Open Burning of Waste	NA	NA	NO
4D	Wastewater Treatment and Discharge			
4D1	Domestic Wastewater Treatment and Discharge	Tier 1 or 2	2 Million litres/day	NO
4D2	Industrial Wastewater Treatment and Discharge	Tier 1 or 2	1000 cubic metres per day	NO
4E	Other (please specify)	NA	NA	NA
5	Other			
5A	Indirect N <sub>2</sub> O Emissions from the Atmospheric Deposition of Nitrogen in NO <sub>x</sub> and NH <sub>3</sub>	NA	NA	NA
5B	Other (please specify)	NA	NA	NA

## ANNEXURE 2 REGISTRATION AS DATA PROVIDER AND OF FACILITIES

Information to be provided during registration

Registration Item	Details	Comments
<b>Data Provider Name</b>		
<b>Company registration number</b>		
<b>Data Provider ID</b>		<i>To be generated by the system</i>
<b>Physical Address of the Data Provider</b>		
<b>Contact Person</b>		<i>Name, designation, contact number, e-mail address</i>
<b>Facility/ies</b>		
<b>Facility 1</b>	<b>Name of Facility 1</b>	<i>Name used to identify the facility</i>
	<b>Facility ID</b>	<i>To be generated by the system</i>
	<b>Physical Address</b>	<i>Physical address of the facility, Global Positioning System (GPS) Coordinates of the facility</i>
	<b>Relevant IPCC Code for the facility</b>	<i>See Annexure 1 for IPCC codes</i>
	<b>Installed capacity of the facility</b>	<i>Quantity and units</i>
	<b>Description of Non-combustion Sources and installations</b>	<i>Description of process, technology and products, number of installations relevant for this category and their individual capacity</i>
	<b>Description of stationary combustion sources and installations</b>	<i>Description of process, technology and fuel types, number of installations relevant for this category and their individual capacity</i>
<b>Facility 2</b>	<b>Name of Facility 2</b>	<i>Name used to identify the facility</i>
	<b>Facility ID</b>	<i>To be generated by the system</i>
	<b>Physical Address</b>	<i>Physical address of the facility, Global Positioning System (GPS) Coordinates of the facility</i>
	<b>Relevant IPCC Code for the facility</b>	<i>See Annexure 1 for IPCC codes</i>
	<b>Installed capacity of the facility</b>	<i>Quantity and units</i>
	<b>Description of Non-combustion Sources and installations</b>	<i>Description of process, technology and products, number of installations relevant for this category and their individual capacity</i>

	Registration Item	Details	Comments
	Description of stationary combustion sources and installations		<i>Description of process, technology and fuel types, Number of installations relevant for this category and their individual capacity.</i>
<b>Facility 3</b>	<b>Name of Facility 3</b>		<i>Name used to identify the facility</i>
	Facility ID		<i>To be generated by the system</i>
	Physical Address		<i>Physical address of the facility Global Positioning System (GPS) Coordinates of the facility</i>
	Relevant IPCC Code for the facility		<i>See Annexure 1 for IPCC codes</i>
	Installed capacity of the facility		<i>Quantity and units</i>
	Description of Non-combustion Sources and installations		<i>Description of process, technology and products, Number of installations relevant for this category and their individual capacity.</i>
	Description of stationary combustion source and installations.		<i>Description of process, technology and fuel types, Number of installations relevant for this category and their individual capacity</i>

Additional rows should be added to the table above to accommodate registration of all facilities as contemplated in Regulation 5.

## ANNEXURE 3

## ANNUAL REPORTING

Name of Data Provider												
Data Provider ID												
Company registration number												
Date of Submission:												
Year of Data:												
Comments:												
Facility 1: Name and ID												
IPCC Code (see Annexure 1)	Sub-category <sup>4</sup> (disaggregated by fuel / product type / production process)	Value of activity data <sup>5</sup>	Units of activity data <sup>6</sup>	Emissions (tonnes/year)								
				GHG-1 <sup>7</sup>			GHG-2			GHG-3		
				Value	Tier <sup>8</sup>	Ref <sup>(*)</sup>	Value	Tier <sup>8</sup>	Ref	Value	Tier <sup>8</sup>	Ref
Facility 2: Name and ID												
IPCC Code (see Annexure 1)	Sub-category (disaggregated by fuel / product type / production process)	Value of activity data	Units of activity data	Emissions (tonnes/year)								
				GHG-1			GHG-2			GHG-3		
				Value	Tier	Ref <sup>(*)</sup>	Value	Tier	Ref	Value	Tier	Ref

<sup>4</sup> Sub-category is applicable in cases whereby more than one fuel type, technology, product or production process is relevant for a specific IPCC code. In steel production for example, Basic Oxygen Furnace (BOF) and Electric Arch Furnace (EAF) are commonly used to produce steel. Each of these processes has a unique greenhouse gas emission factor.

<sup>5</sup> As specified for each activity type in Annexure 5 of these regulations.

<sup>6</sup> As specified for each activity type in Annexure 5 of these regulations.

<sup>7</sup> Please consult the "Technical Guidelines for Monitoring, Reporting and Verification of Greenhouse Gas Emissions by Industry" to identify the relevant greenhouse gases that must be considered for each activity listed in Annexure 1 of these regulations.

<sup>8</sup> For higher tier methods (i.e. material balance, models or direct measurements) supporting material demonstrating how such methods were compiled, must be attached during reporting

**ANNEXURE 4:****INFORMATION TO ACCOMPANY SUBMISSION IN TERMS OF REGULATION 10(2)**

<b>REQUEST FOR REVIEW OF EMISSION FACTOR</b>	
<b><i>Administrative Information</i></b>	
Data Provider	
Data Provider – location of measurement study	
Data Provider Contact	
Date Calculated	
Date Submitted to Competent Authority by Data Provider	
Technical report/scientific paper attached?	
<b><i>Technical information</i></b>	
Greenhouse Gas	
Applicability - relevant IPCC Code	
Applicability of Emission Factor – Plant Specific/Sector-specific/Country-specific	
Relevant IPCC Source-Category in terms of 2006 IPCC or later Guidelines	
<b>Parameter</b>	Type / name
	Value
	Unit
	95% confidence interval
<b>Method</b>	Technique/standard
	Date(s) of measurement
	External QA/QC
	Comments by data provider
	Comments by others (e.g. independent verifier)