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**Contents**

<i>No.</i>		<i>Gazette No.</i>	<i>Page No.</i>
<b>GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS</b>			
<b>Environment, Forestry and Fisheries, Department of/ Omgewingsake, Bosbou en Visserye, Departement van</b>			
R. 994	National Environmental Management: Air Quality Act (39/2004): Amendments to the National Greenhouse Gas Emission Reporting Regulations, 2016 .....	43712	3

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**GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS**

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**DEPARTMENT OF ENVIRONMENT, FORESTRY AND FISHERIES**

NO. R. 994

11 SEPTEMBER 2020

**NATIONAL ENVIRONMENTAL MANAGEMENT: AIR QUALITY ACT, 2004****(ACT NO. 39 OF 2004)****AMENDMENTS TO THE NATIONAL GREENHOUSE GAS EMISSION  
REPORTING REGULATIONS, 2016**

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

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

## 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 designed to generate steam and for purposes of these Regulations, a boiler is referred to as a stationary combustion installation;”;

- (b) by the substitution for the definition of **‘competent authority’** of the following definition:

“**‘competent authority’** means the unit responsible for Climate Change Monitoring and Evaluation at the Department responsible for environment;”;

- (c) by the substitution for 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 as provided for in these Regulations;”;

- (d) by the substitution for the definition of **‘facility’** of the following definition:

“**‘facility’** means premises, or part of premises where activities in Annexure 1 are being undertaken and wherein the data provider has operational control over those activities;”;

- (e) by the deletion of the definition of **‘Global Warming Potential (GWP)’**;

- (f) by the substitution for 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 is listed under the United Nations Framework Convention on Climate Change, relevant to the Republic of South Africa and included in a list of additional greenhouse gases identified, published and gazetted by the Minister, taking into account South Africa's status as a developing country party to the United Nations Framework Convention on Climate Change;";

- (g) by the insertion, after the definition of '**greenhouse gas**', of the following definition:

"**independent assessor**' means a specialist natural or juristic person –

(a) that is mandated to conduct verification of submissions including greenhouse gas emissions data and the associated activity data submitted by the data provider to the competent authority in terms of the Regulations;

(b) that has no business, financial, personal or any other interest in the activity or reporting in respect of which that specialist person is appointed in terms of these Regulations; and

(c) that presents no circumstances that may compromise the objectivity of that specialist person in performing such work, excluding –

(i) normal remuneration for a specialist permanently employed by the independent assessor; or

(ii) fair remuneration for work performed in connection with the verification undertaken in terms of these Regulations;

that does not have either a real or an apparent conflict of interest and not being part of, or under the control of, the competent authority or either the organization to which the verification applies;";

- (h) by the substitution for the definition of "**operational control**" of the following definition:

"**operational control**' means a data provider has operational control or another company over its facilities if it, or one of its subsidiaries, has the full authority to introduce and implement its operating policies at the company its activities;";

- (i) 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 latest version of the Methodological Guidelines for Quantification of Greenhouse Gas Emissions;";

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

"**stationary combustion installation**' means an installation with design capacity rated in terms of thermal heat input per unit;"; and

- (k) by the substitution for the definition of **'verification'** of the following definition:

“**'verification'** refers to the assessment done by the independent assessor with the purpose of identifying risks of material discrepancies, to establish or confirm accuracy, reliability, completeness, comparability, consistency, transparency and credibility of the reported data submitted by the data provider to the competent authority for its intended application for the purposes of achieving the objectives of the Regulations;”.

#### **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 a signatory; and”.

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

4. Regulation 4 of the Regulations is hereby amended—

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

“(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 or exceeds the thresholds, listed in Annexure 1 to these Regulations.”; and

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

“(2) Notwithstanding subregulation (1), the Minister, may by notice in the *Gazette*, identify additional greenhouse gases, sources and associated data providers by following the consultative process set out in sections 56 and 57 of the National Environmental Management: Air Quality Act, 2004 (Act No.39 of 2004) 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 Regulations 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 activities exceed the thresholds 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 the 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 stationary combustion installations across a number of IPCC emission sources, the thresholds shall be considered across IPCC emission sources listed in Annexure 1 to these Regulations.

(1C) In cases of standby generators, registration is triggered by the applicable thresholds and the registration should be done using Annexure 5 and reporting should be done at data provider level where a standby generator is not associated to a facility, using relevant IPCC codes and where a standby generator is already part of a facility or supports the facility in cases of main supply failure, the associated emissions must be reported as per Annexure 3.”;

- (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;” and

- (d) by the insertion, after subregulation (3), of the following subregulation:

“(4) In cases where subregulation 5(3)(b) applies, the Minister must issue a directive in the *Government Gazette*, calling for registration outside the NAEIS.”.

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

6. Regulation 6 of the Regulations 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 of 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 sub-regulation (2) must, within 30 days after taking ownership or operational control of the facility, register as a data provider, in terms of regulation 5 of these Regulations.”; and

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

“(4) Registration of a data provider in terms of regulation 5(1) 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 and related GHG emissions and activity data as specified in Annexure 1 to these Regulations, for all of these the relevant greenhouse gases and 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 (3) of the following subregulation:
- “(3) Reporting in terms of subregulations (1) must be done at both data provider level and at facility level.”;
- (c) by the substitution for subregulation (4) of the following subregulation:
- “(4) The reporting contemplated in subregulations (1) 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, the reporting must be done by submitting the information specified in Annexure 3 to these Regulations in an electronic format to the competent authority.”; and
- (d) by the insertion after subregulation (4) of the following subregulation:
- “(5) In cases where subregulation 7(4)(b) applies, the Minister must issue a directive or instruction by way of notice in the *Government Gazette* calling for reporting outside the NAEIS.”.

#### **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.”; and
- (b) by the substitution for subregulation (2) of the following subregulation:
- “(2) The total greenhouse gas emissions reported by a data provider must include greenhouse gas emissions from all operating conditions including normal, abnormal, start-up and shut-down and emergency situations over the reporting period.”.



### Substitution of regulation 9 of the Regulations

9. Regulation 9 of the Regulations is hereby amended by the substitution for regulation 9 of the following regulation:

#### “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 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 latest version of the Methodological Guidelines for Quantification of Greenhouse Gas Emissions.;

- (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 the latest version of the Methodological Guidelines for Quantification of Greenhouse Gas Emissions 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 Methodological Guidelines for Quantification of Greenhouse Gas Emissions;”; and

- (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 latest version of the Methodological Guidelines for Quantification of Greenhouse Gas Emissions, compliant with sub-regulation (1) by the 31 March of the reporting year for the previous calendar year as stipulated in these Regulations.”.

**Substitution of regulation 11 of the Regulations**

11. Regulation 11 of the Regulations is hereby amended by the substitution for regulation 11 of the following regulation:

**“Verification and validation of information**

11. (1) The competent authority must validate, in accordance with the assessment procedures in the latest version of the Technical Guidelines for Validation and Verification of Greenhouse Gas Emissions, the data submitted by a data provider within 60 days after the submission date.
- (2) The validation contemplated in subregulation (1) may include
- (a) methods defined in the latest version of the Methodological Guidelines for Quantification of Greenhouse Gas Emissions;
  - (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 validation in terms of subregulation (1), the competent authority reasonably believes that the information submitted in terms of these Regulations does not meet quality assurance principles, which are transparency, completeness, accuracy, comparability, consistency and adherence to the latest version of the Methodological Guidelines for Quantification of Greenhouse Gas Emissions; the competent authority must instruct, in writing, the data provider to validate the information submitted, and to provide the supporting information required to substantiate the submission within 30 days after receiving the written instruction from the competent authority.
- (5) Where a data provider fails to provide information in terms of subregulation (4), or where the data provider provides insufficient information in terms of regulation 7(2) and 7(4), for the purposes of validation and verification, 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 latest version of the *Technical Guidelines for Validation and Verification of Greenhouse Gas Emissions* 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 Technical Guidelines for Validation and Verification of Greenhouse Gas Emissions.

- (6) The data provider subjected to verification must submit to the competent authority the outcome of the verification report and the associated data within 90 days after receiving written instruction from the competent authority.
- (7) A data provider is liable for all costs incurred in compliance with sub-regulations (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;”; and
    - (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 of the Regulations is hereby amended —
  - (a) by the substitution for the heading of the following heading:

“**Record Keeping by Data Provider**”; and
  - (b) by the substitution for subregulation (1) of the following subregulation:

“**13.** (1) A data provider must ensure transparency of submissions<sub>1</sub> 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 15 of these Regulations:

##### **“Transitional Arrangements**

15. (1) A data provider may<sub>1</sub> 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 with tier 1 method being the minimum as contemplated in the latest version of the Methodological Guidelines for Quantification of Greenhouse Gas Emissions.
- (2) At the end of the transitional period, a data provider must use a higher tier method prescribed to the activities listed in Annexure 1 to these Regulations and the supporting latest version of the Methodological Guidelines for Quantification of Greenhouse Gas Emissions.”.

**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), 7(3), 8(1), 8(2), 9, 10(1), 10 (3) b, 11(4), 13 or 15.”.

**Substitution of Annexure to the Regulations**

16. Annexures 1, 2, 3, 4 and 5 are hereby substituted for the following 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 to 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 *Methodological Guidelines for Quantification of Greenhouse Gas Emissions* 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	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	1 million bricks a month	NO

<sup>1</sup> Where thresholds are expressed in MW (th), 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	Threshold <sup>1</sup>	Transitional Arrangement Applicability (Regulation 15)
1A2n	Manufacture of ceramic products by firing in particular roofing tiles, tiles, stoneware or porcelain	Tier 1, 2 or 3	With a production capacity equal or greater than 5 tonnes per day,	NO
1A3	Transport			
1A3a	Civil Aviation (Domestic and International)	Tier 2 or 3	100 000 litres/year	YES
1A3b	Road Transportation	NA	NA	NO
1A3c	Railways	Tier 2 or 3	100 000 litres/year	YES
1A3d	Water-borne Navigation (Domestic and International)	Tier 2 or 3	100 000 litres/year	YES
1A3e	Other Transportation	NA	NA	NA
1A4	Other Sectors			
1A4a	Commercial/Institutional	Tier 2 or 3	10 MW(th)	YES
1A4b	Residential	Tier 2 or 3	10 MW(th)	YES
1A4c	Agriculture/Forestry/Fishing/Fish Farms	Tier 2 or 3	10 MW(th)	YES
1A5	Non-Specified			
1A5a	Stationary	Tier 2 or 3	10 MW(th)	YES
1A5b	Mobile	NA	NA	NA
1A5c	Multilateral Operations	NA	NA	NA
1B	Fugitive Emissions from Fuels			
1B1	Solid Fuels			
1B1a	Coal Mining and Handling	Tier 2 or 3	<sup>3</sup> none	YES
1B1b	Uncontrolled Combustion, and Burning Coal Dumps	NA	NA	NA
1B1c	Solid Fuel Transformation	Tier 2 or 3	none	YES
1B2	Oil and Natural Gas			
1B2a	Oil	Tier 1, 2 or 3	none	NO
1B2b	Natural Gas	Tier 1, 2 or 3	none	NO
1B3	Other Emissions from Energy Production	Tier 2 or 3	none	YES
1C	Carbon Dioxide Transport and Storage			
1C1	Transport of CO <sub>2</sub>	Tier 1, 2 or 3	none	NO
1C1a	Pipelines	NA	10 000 tonnes CO <sub>2</sub> /year	NO
1C1b	Ships	Tier 1, 2 or 3	10 000 tonnes CO <sub>2</sub> /year	NO
1C1c	Other (please specify)	Tier 1, 2 or 3	10 000 tonnes CO <sub>2</sub> /year	NO
1C2	Injection and Storage			
1C2a	Injection	Tier 1, 2 or 3	10 000 tonnes CO <sub>2</sub> /year	NO
1C2b	Storage	Tier 1, 2 or 3	10 000 tonnes CO <sub>2</sub> /year	NO
1C3	Other	NA	NA	NA

<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	Threshold <sup>1</sup>	Transitional Arrangement Applicability (Regulation 15)
<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
<b>2A4a</b>	Ceramics	Tier 1, 2 or 3	50 tonnes of production a month	NA
<b>2A4b</b>	Other Uses of Soda Ash	Tier 1, 2 or 3	50 tonnes of production a month	NA
<b>2A4c</b>	Non-Metallurgical Magnesia Production	Tier 2 or 3	None	YES
<b>2A4d</b>	Other (please specify)	Tier 1, 2 or 3	20 tonnes of production month	NO
<b>2A5</b>	Other (please specify)	Tier 1, 2 or 3	NA	NO
<b>2B</b>	<b>Chemical Industry</b>			
<b>2B1</b>	Ammonia Production	Tier 2 or 3	None	YES
<b>2B2</b>	Nitric Acid Production	Tier 2 or 3	None	YES
<b>2B3</b>	Adipic Acid Production	Tier 2 or 3	None	YES
<b>2B4</b>	Caprolactam, Glyoxal and Glyoxylic Acid Production	Tier 2 or 3	None	YES
<b>2B5</b>	Carbide Production	Tier 2 or 3	None	YES
<b>2B6</b>	Titanium Dioxide Production	Tier 2 or 3	None	YES
<b>2B7</b>	Soda Ash Production	Tier 2 or 3	None	YES
<b>2B8</b>	Petrochemical and Carbon Black Production	Tier 2 or 3	None	YES
<b>2B8a</b>	Methanol	Tier 2 or 3	None	YES
<b>2B8b</b>	Ethylene	Tier 2 or 3	None	YES
<b>2B8c</b>	Ethylene Dichloride and Vinyl Chloride Monomer	Tier 2 or 3	None	YES
<b>2B8d</b>	Ethylene Oxide	Tier 2 or 3	None	YES
<b>2B8e</b>	Acrylonitrile	Tier 2 or 3	None	YES
<b>2B8f</b>	Carbon Black	Tier 2 or 3	None	YES
<b>2B9</b>	<b>Fluorochemical Production</b>			
<b>2B9a</b>	By-product Emissions	Tier 1, 2 or 3	None	NO
<b>2B9b</b>	Fugitive Emissions	Tier 1, 2 or 3	None	NO
<b>2B10</b>	Other (Please specify)	Tier 1, 2 or 3	20 tonnes of production a month	NO
<b>2C</b>	<b>Metal Industry</b>			
<b>2C1</b>	Iron and Steel Production	Tier 2 or 3	None	YES
<b>2C2</b>	Ferroalloys Production	Tier 2 or 3	None	YES
<b>2C3</b>	Aluminium Production	Tier 2 or 3	None	YES
<b>2C4</b>	Magnesium Production	Tier 2 or 3	None	YES
<b>2C5</b>	Lead Production	Tier 2 or 3	None	YES
<b>2C6</b>	Zinc Production	Tier 2 or 3	None	YES
<b>2C7</b>	Other (please specify)	Tier 1, 2 or 3	50 tonnes of production a month	NO
<b>2D</b>	<b>Non-Energy Products from Fuels and Solvent Use</b>			
<b>2D1</b>	Lubricant Use	NA	NA	NO
<b>2D2</b>	Paraffin Wax Use	NA	NA	NO
<b>2D3</b>	Solvent Use	NA	NA	NO
<b>2D4</b>	Other (please specify)	NA	NA	NO
<b>2E</b>	<b>Electronics Industry</b>			
<b>2E1</b>	Integrated Circuit or Semiconductor	NA	NA	NA

IPCC Code	Category Name	shall report when their total installed capacity for this activity is over the threshold	Threshold <sup>1</sup>	Transitional Arrangement Applicability (Regulation 15)
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 Conditioning	NA	NA	NA
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			
2G1	Electrical Equipment	NA	NA	NA
2G1a	Manufacture of Electrical Equipment	NA	NA	NA
2G1b	Use of Electrical Equipment (SF <sub>6</sub> use)	Tier 1, 2 or 3	50 kg per year	NO
2G1c	Disposal of Electrical Equipment	NA	NA	NA
2G2	SF <sub>6</sub> 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	N <sub>2</sub> O 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 (Installations for the	Tier 1, 2 or 3	With 40 000	NO



IPCC Code	Category Name	shall report when their total installed capacity for this activity is over the threshold	Threshold <sup>1</sup>	Transitional Arrangement Applicability (Regulation 15)
	intensive rearing of poultry)		places for poultry	
3A2j	Other (please specify)	NA	NA	NA
3B	Land			
3B1	Forest Land			
3B1a	Land Forest land Remaining Forest	Tier 1, 2 or 3	Equal or greater than 100 Hectares of Plantations	YES
3B1b	Land Converted to Forest Land	Tier 1, 2 or 3	Equal or greater than 100 Hectares of Plantations	YES
3B2	Cropland			
3B2a	Cropland Remaining Cropland	NA	NA	NA
3B2b	Land Converted to Cropland	NA	NA	NA
3B3	Grassland			NA
3B3a	Grassland Remaining Grassland	NA	NA	NA
3B3b	Land Converted to Grassland	NA	NA	NA
3B4	Wetlands			NA
3B4a	Wetlands Remaining Wetlands	NA	NA	NA
3B4b	Land Converted to Wetlands	NA	NA	NA
3B5	Settlements			NA
3B5a	Settlements Remaining	NA	NA	NA
3B5b	Land Converted to Settlements	NA	NA	NA
3B6	Other Land			NA
3B6a	Land Other Land Remaining Other	NA	NA	NA
3B6b	Land Converted to Other Land	NA	NA	NA
3C	Aggregate Sources and Non-CO <sub>2</sub> Emissions Sources on Land			
3C1	Emissions from Biomass Burning			
3C1a	Biomass Burning in Forest Lands	Tier 1, 2 or 3	Data provider owning equal or greater than 100 Hectares of Plantations	NO
3C1b	Biomass Burning in Croplands	NA	NA	NA
3C1c	Biomass Burning in Grasslands	NA	NA	NA
3C1d	Land Biomass Burning in All Other	NA	NA	NA
3C2	Liming	NA	NA	NA
3C3	Urea Application	NA	NA	NA
3C4	Soils Direct N <sub>2</sub> O Emissions from Managed	Tier 1, 2 or 3	Data provider owning equal or greater than 100 Hectares of Plantations	NO
3C5	Indirect N <sub>2</sub> O Emissions from Managed Soils	Tier 1, 2 or 3	Data provider owning equal or greater than 100 Hectares of Plantations	NO
3C6	Indirect N <sub>2</sub> O Emissions from Manure Management	NA	NA	NA
3C7	Rice Cultivations	NA	NA	NA
3C8	Other (please specify)	NA	NA	NA
3D	Other			NA
3D1	Harvested Wood Products	Tier 1, 2 or 3	HWP produced from timber	NO

IPCC Code	Category Name	shall report when their total installed capacity for this activity is over the threshold	Threshold <sup>1</sup>	Transitional Arrangement Applicability (Regulation 15)
			harvested from forest owners registered for reporting (see threshold defined in 3B1a and 3B1b)	
<b>3D2</b>	Other (please specify)	Tier 1, 2 or 3	NA	NO
<b>4</b>	<b>WASTE</b>			
<b>4A</b>	Solid Waste Disposal			
<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
<b>4B</b>	Biological Treatment of Solid Waste	NA	NA	NA
<b>4C</b>	Incineration and Open Burning of Waste			
<b>4C1</b>	Waste Incineration (Hazardous and non-hazardous waste)	Tier 1 or 2	1 tonne per hour	NO
<b>4C0</b>	Waste – Pyrolysis	Tier 2 or 3	100 kg/hour	YES
<b>4C2</b>	Open Burning of Waste	NA	NA	NO
<b>4D</b>	Wastewater Treatment and Discharge			
<b>4D1</b>	Domestic Wastewater Treatment and Discharge	Tier 1 or 2	2 Million litres/day	NO
<b>4D2</b>	Industrial Wastewater Treatment and Discharge	Tier 1 or 2	1000 cubic metres per day	NO
<b>4E</b>	Other (please specify)	NA	NA	NA
<b>5</b>	<b>Other</b>			
<b>5A</b>	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
<b>5B</b>	Other (please specify)	NA	None	NA

## ANNEXURE 2

## REGISTRATION AS DATA PROVIDER AND OF FACILITIES

Information to be provided during registration

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

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**

<b>Name of Data Provider</b>													
<b>Data Provider ID</b>													
<b>Company Registration number</b>													
<b>Date of Submission:</b>													
<b>Year of data:</b>													
<b>Comments:</b>													
<b>Facility 1: Name and ID</b>													
IPCC Code (see Annexure 1)	Sub category <sup>4</sup> (disaggregated by fuel / product type / production process)	Activity data			Emissions (tonnes/year)								
		Name of activity data	Value of activity data <sup>5</sup>	Units of activity data <sup>6</sup>	GHG-1 <sup>7</sup>		GHG-2		GHG-3				
					Value	Tier	Ref <sup>9</sup>	Value	Tier <sup>8</sup>	Ref <sup>9</sup>	Value	Tier	Ref
<b>Facility 2: Name and ID</b>													
IPCC Code (see Annexure 1)	Sub category (disaggregated by fuel / product type / production process)	Activity data			Emissions (tonnes/year)								
		Name of activity data	Value of activity data	Units of activity data	GHG-1		GHG-2		GHG-3				
					Value	Tier	Ref	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 Arc 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 chapter 9 of the Methodological Guidelines for Quantification of Greenhouse Gas Emissions

<sup>6</sup> As specified for each activity type in chapter 9 of the Methodological Guidelines for Quantification of Greenhouse Gas Emissions

<sup>7</sup> Please consult the "Methodological Guidelines for Quantification of Greenhouse Gas Emissions" 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 and specifically tier 3 methods (i.e. material balance, models or direct measurements) supporting material demonstrating how such methods were compiled, must be attached during reporting

<sup>9</sup> "Ref" refers to the section in the 'Methodological Guidelines for Quantification of Greenhouse Gas Emissions' where the methodology to quantify greenhouse gas emissions is sourced

## ANNEXURE 4:

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

REQUEST FOR REVIEW OF EMISSION FACTOR	
<b>Administrative information</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>Technical information</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 assessor)

**ANNEXURE 5: REGISTRATION OF STANDBY GENERATORS**

Registration:		Details			Comments
Data Provider Name:					
Data Provider ID:					
Physical Address of the data provider:					
Contact Person:					
Relevant IPCC code					
Total installed capacity of standby generators					
Generator types:	<b>Generator Description</b>	<b>Physical address of the generator</b>	<b>Number of back-up generators</b>	<b>Total capacity (kVA)</b>	<b>Total equivalent in (MW) thermal</b>
<b>Generator Type 1<sup>10</sup></b>					
<b>Generator Type 2</b>					
<b>Generator Type 3</b>					
<b>Generator type 4</b>					
<b>Add more rows if applicable<sup>11</sup></b>					

Additional rows should be added to the table above to accommodate registration of additional standby generators as contemplated in Regulation 5.

<sup>10</sup> Generator type is defined as the same type of generators using common fuels e.g. gas generators, diesel generator;

<sup>11</sup> Reporting is to be done based on IPCC codes and is guided by Annexure 3.

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