Environmental Management (Atmospheric Pollution Control) Regulations, 2009

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IT is hereby notified that the Minister of Environment and Natural Resources Management, in terms of section 140 of the Environmental Management Act [Chapter 20:27], has made the following regulations:—
Part I

Preliminary

Title

1. (1) These regulations shall be cited as the Environmental Management (Atmospheric Pollution Control), Regulations, 2009.

Interpretation

2. In these regulations—

"act" means the Environmental Management Act;

"active operation" means any activity capable of generating fugitive dust, and includes earth-moving activities, construction or demolition activities and the movement of vehicles;

"air-polluting appliance" means an appliance whose emissions cause or are likely to cause pollution of the atmosphere;

"appropriate environmental fee" means the appropriate fee set in the First Schedule;

"appliance" means any stationary fuel-burning appliance or apparatus which is capable of consuming more than five kilograms per hour of fuel or other combustible matter, whether such fuel or combustible matter is in a solid, liquid or gaseous state;

"applicant" means a person who applies for the issue, renewal or amendment of a licence;

"blue licence" means a licence referred to in paragraph (a) of section 6;

"chimney" includes any flue, duct, pipe or other structure through which emissions are conveyed into the atmosphere from any appliance;

"coarse grit" means any solid matter emitted in smoke which has a particle size greater than seventy-six microns;
“construction or demolition activities” means any on-site mechanical activities preparatory to or related to the building, alteration, rehabilitation or improvement of property, including, but not limited to the following activities; grading, excavation, loading, crushing, cutting, planning, shaping or ground breaking;

“disturbed surface area” means a portion of ground which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust;

“dust suppressants” means water, hygroscopic materials, or non-toxic chemical stabilisers used to reduce fugitive dust emissions;

“earth-moving activities” includes grading, earth cutting and filling operations, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations or soil mulching;

“Form” means the appropriate form prescribed in the Second Schedule;

“fine grit” means any solid matter emitted in smoke which has particle size between one micron and seventy-six microns;

“fugitive dust” means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of man;

“green licence” means a licence referred to in paragraph (b) of section 6;

“landfill” means a site where waste is disposed of by burying it or by placing it upon land or other waste;

“licence” means an emission licence referred to in section 64 of the Act;
“motor vehicle” has the meaning given to it in the Road Traffic Act [Chapter 13:11];
“oil” means petroleum in any form other than gas, and includes crude oil, fuel oil sludge, oil refuse and refined oil products such as diesel fuel, paraffin and petrol;
“particulate matter” means any material, except uncombined water, which exists in a finely divided form as a liquid or solid at standard conditions.
“PM$_{10}$” means particulate matter with an aerodynamic diameter smaller than or equal to 10 microns;
“red licence” means a licence referred to in paragraph (d) of section 6;
“solid fuel” means a solid substance or object that releases useable energy when burnt;
“waste” means substances or objects that are disposed of or intended to be disposed of;
“yellow licence” means a licence referred to in paragraph (c) of section 6.

PART II
PREVENTION OF AIR POLLUTION

Emission standards for certain activities

3. (1) Subject to subsection (4), for the purpose of section 63 of the Act, no person who engages in any of the following activities—
(a) the burning of waste at a landfill; or
(b) the burning of vehicle tyres; or
(c) the burning of bitumen; or
(d) the burning of metallic wire coated with any material; or
(e) the burning of oil in the open air; or
(f) the operation of an incinerator; or
(g) any activity that causes the emission of a pollutant into the atmosphere;
shall, in the course of that activity, emit any substance into the atmosphere in excess of the amount prescribed in the Third Schedule for the activity concerned.

(2) Subject to subsection (4), for the purpose of section 63 of the Act, no—

(a) person who carries on any active operation; or
(b) owner or occupier of land or premises on which there is a disturbed surface area;

shall cause or permit fugitive dust to be emitted into the atmosphere as a result of the active operation or from the disturbed surface area, as the case may be, in excess of the amount prescribed in the Third Schedule.

(3) Subject to subsection (4), for the purpose of section 63 of the Act, no owner or occupier of premises shall cause or permit any substance to be emitted, in excess of the amount prescribed in the Third Schedule, from any appliance situated on the premises.

(4) Subsections (1), (2) and (3) shall not apply to the emission of a substance into the atmosphere—

(a) in accordance with the terms and conditions of a licence; or
(b) in the course of an activity specified in the Fourth Schedule, when carried out in accordance with the conditions specified in that Schedule for the activity concerned.

Anyone who contravenes the provisions of subsections (1) to (3) shall be guilty of an offence and is liable to any of the following:—

(a) fine in accordance with the Act;
(b) temporary closure of the facility for up to three weeks until the level of emissions have been rectified;
(c) prosecution.

_Emission standards for motor vehicles_

4. For the purpose of section 68 of the Act, the emission
standards for motor vehicles shall be those set out in the Fifth Schedule.

**Powers of inspectors regarding motor vehicles**

5. (1) An inspector may

(a) On any road, require the driver of any motor vehicle to stop the vehicle; and

(b) Test and inspect any motor vehicle, whether on a road or elsewhere;

in order to ascertain whether or not the vehicle complies with the emission standards referred to in section 4.

(2) In the exercise of his or her functions under subsection (1), an inspector may require a motor vehicle to be driven or taken to a place where it can be tested and inspected as long as the inspection or testing point is at most twenty kilometres.

(3) If a motor vehicle does not comply with the emission standards referred to in section 3, an inspector may, by written notice given to the driver or owner of the vehicle, direct that the vehicle—

(a) shall not be used on any road; or

(b) shall be used subject to conditions specified in the notice.

(4) Conditions specified in a notice given in terms of subsection (3) may provide that the owner of the motor vehicle shall, within such reasonable time not exceeding three months as may be specified in the notice—

(i) cause the vehicle to be repaired or adjusted so that it complies with the emission standards referred to in section 4; and

(ii) deliver the vehicle to a place specified in the notice for testing and inspecting to ensure that it complies with the emission standards referred to in section 4.

(5) Failure to comply with a notice given in terms of subsection (4), the Agency may compulsorily send the vehicle for rectification and the owner pays the cost or reimburses the Agency for costs.
incurred; In the event that the owner defaults reimbursement, the Agency shall auction the conveyance to recover its costs.

PART III

EMISSION LICENCES

Classes and Classification of emission licences

6. (1) After such inspection referred to in subsection (4) of section 7 the Agency may issue any one of the following licences in form AQ2 by reference to the licence classification criteria contained in the sixth Schedule and to the test parameters prescribed in the third schedule for the issue of the relevant licence—

   (a) a blue licence in respect of a discharge which is considered to be environmentally safe;

   (b) a green licence in respect of a discharge which is considered to present a low environmental hazard;

   (c) a yellow licence in respect of a discharge which is considered to present a medium environmental hazard;

   (d) a red licence in respect of a discharge which is considered to present high environmental hazard.

   (2) Where necessary, for the purposes of determining whether to issue a blue, green, yellow or red licence, the Agency shall employ the appropriate standard test of the Standards Association of Zimbabwe (SAZ), or other test prescribed by the Agency.

   (3) For the purpose of these regulations the analytical results from the Agency shall be deemed correct and supersede any other results from any other laboratory whenever there are disagreements of any such results.

   (4) The Agency may issue a different class of licence to the one sought to be renewed or amended.

Application for and issue or rejection of licence

7. (1) Subject to this section, an application for a blue, green, yellow, or red licence shall be made to the Agency in Form AQ 1 and shall be accompanied by the appropriate environmental fee.
(2)—

(a) A separate application form AQ1 shall be submitted in respect of each emission point used in the discharge of emissions;

(b) in the event that the applicant does not know what class of licence to apply for, the appropriate fee for the issue of a yellow permit shall be submitted pending the determination of the application in terms of section 6;

(c) in the event that the emission discharge facility discharges both ordinary and hazardous emissions, the discharge facility shall be deemed as a hazardous emission point.

(3) The Agency shall consider without delay every application for a licence and, in deciding whether or not to issue a licence to the applicant, may take into account the following matters in addition to those set out in subsection (2) of section 65 of the Act—

(a) the degree of risk to the environment if the licence is issued;

(b) any previous failure on the part of the applicant to comply with the terms and conditions of a licence;

(c) any failure or refusal by the applicant to co-operate with persons conducting an investigation or inspection referred to in subsection (4).

(4) The Agency may conduct such investigation or inspection as it thinks appropriate before deciding whether or not to issue a licence to an applicant.

(5) The Agency may refuse in writing to issue a licence to the applicant on the basis of the results of investigations referred to in subsection (3) and any other matter it may specify.

(6) Before issuing a licence, the Agency may require the applicant to pay the appropriate licence fee in terms of the First Schedule.
Form of licence

8. (1) A licence shall be in Form AQ2.

(2) Every licence shall specify—

(a) the name and address of the licensee; and

(b) the point in respect of which it has been issued; and

(c) whether it is a blue, green, yellow or red licence; and

(d) the emissions that are authorised by the licence, and the circumstances and any conditions under which they may be discharged into the atmosphere; and

(e) the conditions to be provided by the licensee to permit the monitoring of emissions from the facility concerned; and

(f) Any other conditions deemed necessary by the Agency.

General conditions attaching to licences

9. (1) A licence shall not be transferable to another person, except with the written approval of the Agency:

Provided that the Agency has reasonable grounds to be satisfied that—

(a) there will be no change in the emissions from the trade or establishment; and

(b) the transferee will abide by the terms and conditions of the licence.

(2) A licence shall be valid from the date of its issue until the 31st December of the year in which it was issued, unless otherwise specified in the licence.

(3) A licence shall relate only to the particular facility used in discharging emissions in respect of which it was issued and not to any other such facility or to any substantial alteration or modification of the facility or method originally licenced.

(4) Every licensee shall—
(a) allow inspectors and other persons duly authorised by the Agency access to the facility during normal working hours or any other time that the Agency on reasonable grounds deems fit in respect of which the licence was issued, for the purposes of inspection and the collection of samples; and

(b) provide inspectors and other persons authorised by the Agency with such reasonable facilities and assistance as may be necessary to carry out any inspection or collection of samples referred to in paragraph (a).

(5) Every licensee shall maintain records of all relevant information pertaining to the emissions in respect of which the licence was issued, including the following information in regard to any sampling, testing, monitoring and measurement required by the licence—

(a) the date, monitoring site, time and duration of the sampling, testing, monitoring or measurement;

(b) the dates on which any analyses were performed, the person who performed them and their results;

(c) the analytical techniques or methods used, including supporting information such as calibration and maintenance records and all original recording charts for continuous monitoring instrumentation, including emissions or equipment monitors;

(d) the relevant operating conditions that existed at the time of sampling, testing, monitoring or measurement;

(e) details of all malfunctions which caused any limitation on emissions to be exceeded, including logs documenting the implementation of emergency preparedness plans;

(f) details of all activities specified in any compliance schedule approved by the Board;

(g) any other information relating to emissions which may be requested in writing by the Agency.

(6) the Agency may at any time while a licence is in force, review it and amend or cancel it where there has been any material
change in the circumstances in respect of which it was originally issued or any failure on the part of the licence holder to comply with any of its terms or conditions.

(7) A licensee shall retain the records referred to in subsection (5) for a period of three years and shall permit them to be inspected at all reasonable times, on request, by any inspector or other person duly authorised by the Agency.

Amendment and renewal of licences

10. (1) An application for the amendment or renewal of a licence shall be made to the Agency in Form AQ 1, and section 7 shall apply, with any necessary changes, to such an application.

(2) The Agency may at any time amend a licence if it considers that it is in the interest of the environment or in the public interest to do so.

Fees payable by licensees

11. (1) Every licensee shall pay to the Agency the appropriate environmental fee.

(2) In respect of every three-month period ending on the 31st March, 30th June, 30th September and 31st December in each year, every licensee shall pay to the Agency the appropriate environmental fee.

(3) To enable the Agency to assess the environmental fee payable in terms of subsection (2) in respect of any three-month period, every licensee shall submit to the Agency, not later than seven days after the end of the period concerned, a return showing the nature and total volume of emissions during the period concerned from the facility to which the licence relates.

(4) If a licensee fails for any reason to submit a return in terms of subsection (3), the Agency may assess the environmental fee payable on the basis of an estimate by an inspector or an additional fifty per centum of the previous quarter's fees.

(5) In the case of a holder of a red licence, an additional fee of fifty per centum of the total appropriate fees payable by the holder
shall be payable to the Agency for every quarter during which the licence is to be held.

Register of licences

12. (1) In the register of licences required to be kept by section 67 of the Act, there shall be recorded, in respect of each licence—

(a) the name and address of the licensee, the location of the facility in respect of which the licence was issued, and the method by which pollutants are emitted; and

(b) the class of the licence; and

(c) the date on which the licence was issued, renewed or amended; and

(d) the period of validity of the licence; and

(e) particulars of any amendment or cancellation of the licence; and

(f) such other particulars as the Agency may determine.

(2) Upon payment of the appropriate fee, any member of the public may, inspect the register of licences.

Part IV

Appliances

Monitoring of solid-fuel-burning appliances

13. (1) The Agency may, by notice in writing, require the owner or occupier of any premises in or on which there is a solid-fuel-burning appliance—

(a) to provide or install, at his or her own expense and within at most three months, facilities or equipment for the sampling of emissions from the appliance; and

(b) to submit, at such times as the Agency may specify in the notice, such information regarding the quantity and quality of the emissions as may be required by the Agency.
(2) Any person who contravenes or fails to comply with a notice served on him or her in terms of subsection (1) shall be guilty of an offence and liable to a fine not exceeding level six or to imprisonment for a period not exceeding six months or to both such fine and such imprisonment.

**Approval of installation, etc., of certain appliances**

14. (1) No owner or occupier of premises shall install, alter or extend an air-polluting appliance in or on those premises except in accordance with plans and specifications which have been submitted to and approved by the Agency.

(2) The plans and specifications referred to in subsection (1) shall set out the following information—

(a) details of any chimneys to be erected, including their height above ground, their discharge diameter, their discharge velocity and their exact position; and

(b) details of the type of fuel to be used and the fuel consumption of the appliance to be installed, altered or extended; and

(c) the height and position of existing buildings on the premises concerned; and

(d) the height, position, and use of existing buildings on the premises immediately adjacent to the premises concerned.

(3) Before approving plans and specifications for the purposes of this section, the Agency may—

(a) require the owner or occupier of the premises concerned to submit such further information as the Agency considers necessary regarding the air-polluting appliance concerned;

(b) carry out such investigation or inspection as it considers necessary on the facility concerned.

(4) If any appliance is installed, altered, or extended in contravention of subsection (1), the Agency may, by written notice,
require the owner or occupier of the premises concerned, within such period as is specified in the notice and at his or her own expense—

(a) to remove the appliance from the premises; or

(b) to restore the appliance to its original state;

as may be appropriate.

(5) Any person who contravenes subsection (1) or a notice in terms of subsection (4) shall be guilty of an offence and liable to a fine not exceeding level six or to imprisonment for a period not exceeding six months or to both such fine and such imprisonment.

Chimneys

15. (1) The chimney of every air-polluting appliance shall be fifty metres in height or be so designed as to allow adequate dispersion of the pollutants to the satisfaction of the Agency.

(2) The Agency shall not approve plans or specifications in terms of section 14 unless any chimney of the air-polluting appliance that is the subject of the plans or specifications conforms with the requirements of subsection (1).

(3) The Agency may require the owner or occupier of any premises in or on which an air-polluting appliance with a chimney which does not conform to the requirements of subsection (1), to install, alter or extend such chimney within a stated period at own cost.

Anyone who contravenes or fails to comply with the provisions of section 15 shall be guilty of an offense and liable to a fine not exceeding level six or to imprisonment for a period not exceeding six months or to both such fine and imprisonment.

Part V

General

Sampling procedures

16. For the purpose of testing or monitoring emissions in terms of these regulations, sampling methods shall be used that are consistent with—
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(a) standards approved by the Standards Association of Zimbabwe; or

(b) sampling methods set out in the Agency’s operational guidelines that are published from time to time.

_Notification of accidental discharge of emissions_

17. (1) If, from any premises in respect of which a licence has been issued, there are any accidental emissions materially in excess of the quantities permitted by the licence, the licensee shall immediately for hazardous emissions, and in any event within twelve hours after the occurrence of the accident—

(a) notify the Agency both orally and in writing of the accident; and

(b) inform all persons who may be affected by the emissions;

and within eight hours thereafter shall supply the Agency, in writing, with—

(i) all information regarding the circumstances of the accident and the quality and quantity of the emissions; and

(ii) any information the Agency may need to assess the impact of the accident on the environment.

(2) A licensee who contravenes subsection (1) shall be guilty of an offence and liable to any of the following:

(a) review or cancellation of the existing emission licence;
(b) fine not exceeding level 14;
(c) closure of polluting operation;
(d) prosecution.

_Publication and provision of information_

18. (1) In its annual report referred to in section 24 of the Act, the Agency shall—

(a) state the number of licensees by classification; and

(b) state the number of applications for licences that have been received, approved and rejected; and
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(c) show the income accruing to the Agency from its administration of these regulations, and the expenditure incurred by the Agency in the course of that administration; and

(d) give a summary of any comments and recommendations made by persons and organisations consulted by the Agency in formulation and administration of these Regulations.

(2) The Agency shall, from time to time, publish guidelines on how licences are issued, including the considerations it takes into account when issuing them, and generally on the manner in which it administers these regulations.

(3) The Agency shall from time to time publish a report on the quality of the nation’s air resources.

(4) The Agency may provide any institution, organisation or member of the public with specialised information regarding air resources for research or consultancy purposes, and may require the person to whom the information is given to pay a reasonable fee to cover the cost of gathering and providing the information.

Temporary cessation of emissions

19. (1) If the Agency has any grounds to believe that emissions from an establishment or premises—

(a) exceed the appropriate emission standards prescribed in the Third Schedule; or

(b) cause an actual or potential danger to the environment or to human health;

the Agency may, by written order to the owner or occupier of the facility, direct that he or she shall cease the emissions for a period not exceeding three weeks, or take such measures as the Agency may specify in the order to reduce the emissions, over such reasonable period, not exceeding three months, as the Agency may specify in the order.

(2) An owner or occupier on whom an order has been served in terms of subsection (1) shall comply with the order.
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(3) Any person who—
(a) contravenes or fails to comply with an order served on him or her in terms of subsection (1);
shall be guilty of an offence and liable to a fine not exceeding level fourteen or to imprisonment for a period not exceeding twelve months or to both such fine and such imprisonment.

This section shall not be construed as limiting the powers of inspectors under subsection (4) of section 37 of the Act.

Identification of inspectors and officers

20. The Agency shall provide every inspector and officer who is authorised to exercise any function under these regulations with a document identifying him or her as an inspector or authorised officer, as the case may be, and he or she shall produce it on request by any interested person.

Additional offences

21. (1) Any person who hinders or obstructs an inspector or an officer of the Agency in the exercise of any function under these regulations shall be guilty of an offence and liable to a fine not exceeding level fourteen or to imprisonment for a period not exceeding twelve months or to both such fine and such imprisonment.

(2) Any—
(a) person who, in an application for the issue, renewal or amendment of a licence; or
(b) licensee, in any return, report or document submitted to the Agency in terms of these regulations; or
(c) licencee who wilfully contravenes any term or condition of his licence;
shall be guilty of an offence and liable to any of the following:
(i) review or cancellation of existing emission licence;
(ii) fine not exceeding level 14;
(iii) closure of polluting operations;
(iv) prosecution.

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**Carbon tax**

22. The carbon tax shall be charged per fuel type and payable to the Agency at port of entry for imported fuels or at point of production and distribution for fuels not imported. Carbon tax rates are prescribed in the Seventh Schedule.

**Repeals**

23. The regulations set out in the Eighth Schedule are repealed.

**First Schedule (Section 2)**

**Fees**

1. Fee for the appeal to the Minister against the Agency’s decision is ........................................... 240.00
2. Viewing of air pollution licence registers will be free .............................................................................. —
3. Issue of a duplicate licence (general emissions) ....... 150.00
4. Annual registration fees ................................. 30.00
5. Registration fees—

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<tr>
<th>Licence Band</th>
<th>Registration fees</th>
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<td>Blue licence</td>
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<tr>
<td>Green licence</td>
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<tr>
<td>Yellow Licence</td>
<td>280.00</td>
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<tr>
<td>Red Licence</td>
<td>555.00</td>
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</tbody>
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6. Quarterly Environmental Fees—

<table>
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<tr>
<th>Licence Band</th>
<th>Volume (V) &lt; 5 tonnes per quarter</th>
<th>Volume more than 5 tonnes and less than 50 tonnes per quarter</th>
<th>Volume more than 50 tonnes and less than 100 tonnes per quarter</th>
<th>Volume more than 100 tonnes and less than 200 tonnes per quarter</th>
<th>Volume more than 200 tonnes per quarter</th>
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</thead>
<tbody>
<tr>
<td>Blue</td>
<td>US$ 100</td>
<td>US$ 145</td>
<td>US$ 280</td>
<td>US$ 555</td>
<td>US$ 1 110</td>
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<td>US$ 280</td>
<td>US$ 555</td>
<td>US$ 1 110</td>
<td>US$ 2 000</td>
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<tr>
<td>Yellow</td>
<td>US$ 280</td>
<td>US$ 555</td>
<td>US$ 1 110</td>
<td>US$ 2 000</td>
<td>US$ 4 500</td>
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<tr>
<td>Red</td>
<td>US$ 555</td>
<td>US$ 1 110</td>
<td>US$ 2 000</td>
<td>US$ 4 500</td>
<td>US$ 9 000</td>
</tr>
</tbody>
</table>
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Notes:

(a) The registration fees will be billed annually in advance.

(b) All invoices will be payable within 30 days of issue, invoices that are unpaid after 60 days may be sent to the Agency’s debt collector. Interest will be charged on all unpaid debt in line with the Agency’s Financial Policy. A penalty of 50% of the debt will be charged in addition to the debt collector’s fees.

(c) For the avoidance of doubt, all fees shall be adjusted by inflation factor \(i\), which will be the ratio of the current Government Consumer Price Index (CPI) to the CPI at the base year (CPI/CPIo). The base year is June 2007 and \(i\) is 1 for the base year.

(d) The volume of emissions discharged is measured in Tonnes emissions mass flow.

(e) 5% Administration fee shall be charged on all fees.

Second Schedule (Section 2)

FORMS

ZIMBABWE

APPLICATION FOR EMISSION LICENCE OR AMENDMENT OR RENEWAL THEREOF

- To be completed in duplicate accompanied by the appropriate fee.
- Attach annexures wherever necessary.
- Do not leave any question blank or unanswered: where necessary answer “Not Applicable” or “Not Known”.
- The results of laboratory analysis of the emission in form AQ 3 must be attached to this application form.

Details of applicant, type of application and site of emissions

1. (a) Name and address of applicant, and (b) if applicable, name and address of person completing the application on behalf of the applicant,
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stating in what capacity the person is acting, (c) address for correspondence, and (d) area of site .................................................................

.................................................................

2. Indicate by ticking whether this application is for (a) new licence (b) renewal or (c) the amendment of an existing licence.

3. Class of licence sought, if known (delete inapplicable): Blue/Green/ Yellow/Red.

4. (a) Name and address of site to which application relates, and (b) general description of the activity resulting in the emission........................................

.................................................................

5. (a) Location of the discharge (attach a map showing points of discharge, the Ground Level Dispersal (GLD) zone, elevations and other relevant features), UTM coordinates (6 figure) and (b) description of receiving air in the immediate vicinity of the discharge, including a chemical analysis of the quality of the receiving environment at risk (if possible, a map should show sampling points and identify the location of suitable monitoring equipment for a monitoring programme). ........................................

.................................................................

6. Description and detailed analysis of emissions, including (a) type of emissions (agricultural/municipal/industrial/mining, smoke, fumes, dust etc.) and (b) main characteristics and components of the emissions, concentrations of pollutants and (c) irregular or Hazardous characteristics and components of the emission, if any. Complete Air Quality Form AQ3 and attach it to the licence application form. .................................................................

.................................................................

7. (a) Method of discharge of emissions (b) description of the possible environmental impact on air resources of the proposed emissions, and (c) description of the environmental protection measures taken or to be taken in the event of environmental accidents, and (d) description of the equipment/measures for the control of emissions to the atmosphere, (e) describe the handling and disposal of any solid matter collected during air pollution control (f) description of any plans to improve the quality of the emissions after discharge to decrease the environmental impact and (g) state quantity, chemical analysis and method of disposal. ......

.................................................................

8. Quantity of emission:

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<table>
<thead>
<tr>
<th>Emission</th>
<th>Type of emission (industrial, mining etc.)</th>
<th>Discharge (cubic metres/month), general emission</th>
<th>Discharge (cubic metres/month), hazardous emission</th>
</tr>
</thead>
</table>

9. Details regarding each stack

<table>
<thead>
<tr>
<th>Details of stack</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. diameter of stack</td>
</tr>
<tr>
<td>2. height above ground-level</td>
</tr>
<tr>
<td>3. height of surrounding buildings</td>
</tr>
<tr>
<td>4. length of largest adjacent building</td>
</tr>
<tr>
<td>5. nature of pollutants</td>
</tr>
<tr>
<td>6. volume of gas emitted</td>
</tr>
<tr>
<td>7. emission temperature</td>
</tr>
</tbody>
</table>

10. State distance, details and direction of high-risk populations that may be in the dispersal area (e.g. residential areas, schools, old aged homes, clinics or hospitals).

11. Give a summary of complaints received or problems experienced with air pollution.

Declaration by Applicant

All information given in response to or in support of this application is true and correct to the best of my/our knowledge and belief.

By submitting this application I/we agree to unrestricted access by duly authorised officers of the Agency to inspect the emissions discharge system and all records pertaining to the management of emissions.

Signed: ............................................................................................................
..........................................................................................................................

Capacity or designation of any person signing on behalf of the applicant: ...
..........................................................................................................................

Date: ............................................................................................................
..........................................................................................................................
EMISSIONS LICENCES

Licence to discharge emissions

This licence does not absolve the holder of responsibility for damage caused, or claims made for damage caused, resulting from the discharge of the emissions.

This licence does not absolve the holder from responsibility for compliance with other relevant laws or regulations.

The Agency reserves the right at any time to review the licence conditions and require the licence holder to take remedial action should there be evidence of adverse effects on sustainable utilisation of the environment.

Licence No. ...................... Date issued: ..............................

Date of expiry: .............................................................

Holder of licence: ..........................................................

Address: ........................................................................

You are hereby licensed to discharge emissions from the date of issue under the following conditions:
Environmental Management (Atmospheric Pollution Control) Regulations, 2009

Location of disposal: .................................................................

Method of disposal: ..............................................................

**Quantity**

This should conform to the amounts specified in the application form or assessed by the Agency.

<table>
<thead>
<tr>
<th>Emission</th>
<th>Discharge (cubic metres/month), general emission</th>
<th>Discharge (cubic metres/month), hazardous emission</th>
</tr>
</thead>
</table>

**Classification**

The licence is granted for the discharge of emissions in the Blue/Green/Yellow/Red.

**Monitoring**

The following table shows the location of the sampling point and parameters to be measured in terms of this licence.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Frequency of sampling</th>
<th>Sampling point</th>
</tr>
</thead>
</table>

Samples must be taken in accordance with accepted procedures (refer to guidelines issued by the Agency from time to time) and examined using standard procedures as published by the Standards Association of Zimbabwe.

**Reporting**

You are required to submit a report every ....................... months with the results of the analysis specified in the above tables using report form AQ 3.

The report should be received by the Agency within........ months of the date of issue of the licence and every ....................... months thereafter. Failure to receive the reports on time will be taken as a breach of licence conditions.

**Records**

You will maintain up to date records of all information pertaining to the management of the emissions, including flow records, emissions analysis,
receiving environment analysis. Full records of all reports submitted to the Agency will be maintained at the site and produced on demand. Records must be maintained for inspection for three years.

**Breach of licence conditions**

The Agency should be advised within 24 hours of any breach of licence conditions including those due to factors beyond your control. The Agency will then take whatever action is considered necessary. Such factors as seasonal flooding will be dealt with in accordance with such guidelines as the Agency may issue from time to time. If considered necessary, breaches of licence may result in:

1. a review of licence conditions;
2. a review of licence fees required by any reclassification of the licence;
3. cancellation of the licence.

Breaches of licence conditions detected by officers of the Agency but not reported by the licence holder will result automatically in actions (1) and (2), and possibly (3).

**Supervision**

The Agency reserves the right to inspect the emission facility at any time and to collect samples for independent analysis. Samples analysed by the Agency shall be deemed to be correct for the purposes of establishing conformity with the licence conditions.

Special requirements or conditions: ..............................................................

.............................................................................................................

Provincial Head: ..................................................................................

Form AQ 3

ZIMBABWE

EMISSIONS QUALITY REPORT FORM

Results of analysis of emissions (use and adapt third Schedule: table 1, showing the results of the analysis in a separate column).

Emission standards for motor vehicles: Fifth Schedule
ZIMBABWE

COMPLIANCE INSPECTION REPORT FORM

Date: ......................................................................................................................

Time: .....................................................................................................................

Inspector: ..............................................................................................................

SECTION A: Licence summary

Name and address of facility/ Licence holder. .............................................................
...............................................................................................................................
...............................................................................................................................

Licence No.: ................................................ Issue date: ........................................

Expiry date: ...........................................................................................................

Responsible official ..............................................................................................

Title: ........................................................ Telephone: ...........................................

Facility Representative: .......................................................................................

Title: ......................................................................................................................

SECTION B: Emissions characteristics (from latest facility records)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Minimum</th>
<th>Average</th>
<th>Maximum</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample measurement</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Licence requirement</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emission rates</td>
<td>Emission rates records</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Licence requirement</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
S.I. 72 of 2009

SECTION C: Records and reports maintained as required by Licence

<table>
<thead>
<tr>
<th></th>
<th>Adequate records maintained of:</th>
<th>Yes</th>
<th>No</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Sampling date, time, exact location of discharge point</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Analyses dates, times</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Lab/ individual performing analyses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Analytical results</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Facility operating records kept</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Emission rate records kept, date, time</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other comments</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION D: Licence verification

<table>
<thead>
<tr>
<th></th>
<th>Facility is as described in the Licence</th>
<th>Yes</th>
<th>No</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Principal products and production rates are as described in Licence</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Treatment processes are as described in Licence application</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Number and location of emission points are as described in Licence</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Correct name and location of discharge point</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>All emissions are Licensed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other comments</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION E: Operation and maintenance

<table>
<thead>
<tr>
<th></th>
<th>Operation and maintenance records maintained</th>
<th>Yes</th>
<th>No</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>All treatment units in service</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Emissions adequately disposed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Experienced operating staff provided</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Any by-passing since last inspection</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Environmental protection measures</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Variations have been notified to Agency</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Flow measuring devices working</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other comments</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Environmental Management (Atmospheric Pollution Control) Regulations, 2009

SECTION F: Laboratory procedures

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SAZ Test procedures used</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Parameters other than required by the Licence are analysed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Duplicate samples are analysed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Commercial laboratory is used, Laboratory name and address:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION G: Sampling

- Grab samples obtained
- Composite samples obtained
- Emission rate proportioned sample obtained
- Sample split with Licence holder
- Samples taken as per Licence requirements

Preservation methods used: ........................................................................................................

Results of analysis should eventually be attached.

SECTION H: Other observations:

Summary of Investigation.

<table>
<thead>
<tr>
<th></th>
<th>Satisfactory</th>
<th>Not satisfactory</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section B: Emissions characteristics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section C: Records and reports maintained as required by licence</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section D: Licence verification</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section E: Operation and maintenance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section F: Laboratory procedures</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Signatures

Inspected by: ................................................................. on behalf of the Agency
Inspected by: ................................................................. on behalf of the permit holder

For official use only

Compliance status (tick where applicable):
- Compliance with Licence
- Non compliance with Licence
- Recommendations by Inspector

................................................................. Date: ..............................................

Approved/ Not approved/ Referred for further inquiry
Date: .................................................................
Signature: .................................................................

(Provincial head)
Table 1: Classification of air emissions and maximum permissible discharge

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Type</th>
<th>Blue</th>
<th>Green</th>
<th>Yellow</th>
<th>Red</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2S (ambient)</td>
<td>Chlorine gas</td>
<td>&lt;0.001</td>
<td>&lt;0.002</td>
<td>&lt;0.003</td>
<td>&lt;0.004ppm</td>
<td>50</td>
</tr>
<tr>
<td>Cl2</td>
<td>Uranium</td>
<td>&lt;10mg/m^3</td>
<td>&lt;25mg/m^3</td>
<td>&lt;35mg/m^3</td>
<td>&lt;50mg/m^3</td>
<td>350</td>
</tr>
<tr>
<td>Particulates</td>
<td>Calcium carbide</td>
<td>&lt;40mg/m^3</td>
<td>&lt;60mg/m^3</td>
<td>&lt;80mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>350</td>
</tr>
<tr>
<td>Particulates</td>
<td>Hydrochloric acid</td>
<td>&lt;60mg/m^3</td>
<td>&lt;90mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>&lt;120mg/m^3</td>
<td>350</td>
</tr>
<tr>
<td>HCl fumes</td>
<td></td>
<td>&lt;10mg/m^3</td>
<td>&lt;20mg/m^3</td>
<td>&lt;25mg/m^3</td>
<td>&lt;30mg/m^3</td>
<td>350</td>
</tr>
<tr>
<td>HCl fumes</td>
<td>Acetyline</td>
<td>&lt;10mg/m^3</td>
<td>&lt;20mg/m^3</td>
<td>&lt;25mg/m^3</td>
<td>&lt;30mg/m^3</td>
<td>350</td>
</tr>
<tr>
<td>NH3</td>
<td>Ammonia</td>
<td>&lt;40mg/m^3</td>
<td>&lt;60mg/m^3</td>
<td>&lt;80mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>350</td>
</tr>
<tr>
<td>NOx</td>
<td>Nitric acid</td>
<td>&lt;70mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>&lt;130mg/m^3</td>
<td>&lt;150mg/m^3</td>
<td>50</td>
</tr>
<tr>
<td>NOx</td>
<td>Ammonium nitrate</td>
<td>&lt;70mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>&lt;130mg/m^3</td>
<td>&lt;150mg/m^3</td>
<td>50</td>
</tr>
<tr>
<td>Particulates SO2</td>
<td>Sulphuric acid</td>
<td>&lt;60mg/m^3</td>
<td>&lt;90mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>&lt;120mg/m^3</td>
<td>50</td>
</tr>
<tr>
<td>Particulates fluorides</td>
<td>Phosphoric acid</td>
<td>&lt;30mg/m^3</td>
<td>&lt;40mg/m^3</td>
<td>&lt;45mg/m^3</td>
<td>&lt;50mg/m^3</td>
<td>50</td>
</tr>
<tr>
<td>Particulates fluorides</td>
<td>Superphosphate</td>
<td>&lt;60mg/m^3</td>
<td>&lt;90mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>&lt;120mg/m^3</td>
<td>50</td>
</tr>
<tr>
<td>Particulates SO2</td>
<td>Copper and/</td>
<td>&lt;60mg/m^3</td>
<td>&lt;90mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>&lt;120mg/m^3</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>nickel smelling</td>
<td>&lt;30mg/m^3</td>
<td>&lt;40mg/m^3</td>
<td>&lt;45mg/m^3</td>
<td>&lt;50mg/m^3</td>
<td>50</td>
</tr>
<tr>
<td>Particulates SO2</td>
<td>Iron and</td>
<td>&lt;60mg/m^3</td>
<td>&lt;90mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>&lt;120mg/m^3</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>steel</td>
<td>&lt;30mg/m^3</td>
<td>&lt;40mg/m^3</td>
<td>&lt;45mg/m^3</td>
<td>&lt;50mg/m^3</td>
<td>50</td>
</tr>
<tr>
<td>Particulates</td>
<td>cement</td>
<td>&lt;60mg/m^3</td>
<td>&lt;90mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>&lt;120mg/m^3</td>
<td>350</td>
</tr>
<tr>
<td>Particulates</td>
<td>Ferro-alloys</td>
<td>&lt;70mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>&lt;110mg/m^3</td>
<td>&lt;150mg/m^3</td>
<td>350</td>
</tr>
<tr>
<td>Particulates</td>
<td>lead</td>
<td>&lt;10mg/m^3</td>
<td>&lt;10mg/m^3</td>
<td>&lt;10mg/m^3</td>
<td>&lt;15mg/m^3</td>
<td>350</td>
</tr>
<tr>
<td>Particulates SO2</td>
<td>Gas or coke</td>
<td>&lt;60mg/m^3</td>
<td>&lt;90mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>&lt;120mg/m^3</td>
<td>350</td>
</tr>
<tr>
<td>Nox</td>
<td></td>
<td>&lt;70mg/m^3</td>
<td>&lt;90mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>&lt;120mg/m^3</td>
<td>350</td>
</tr>
<tr>
<td>CO</td>
<td></td>
<td>&lt;40mg/m^3</td>
<td>&lt;60mg/m^3</td>
<td>&lt;80mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>50</td>
</tr>
<tr>
<td>Particulates</td>
<td>Thermal</td>
<td>&lt;60mg/m^3</td>
<td>&lt;90mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>&lt;120mg/m^3</td>
<td>350</td>
</tr>
<tr>
<td>SO2</td>
<td>power</td>
<td>&lt;25mg/m^3</td>
<td>&lt;30mg/m^3</td>
<td>&lt;35mg/m^3</td>
<td>&lt;40mg/m^3</td>
<td>50</td>
</tr>
<tr>
<td>NOx</td>
<td></td>
<td>&lt;70mg/m^3</td>
<td>&lt;100mg/m^3</td>
<td>&lt;130mg/m^3</td>
<td>&lt;150mg/m^3</td>
<td>350</td>
</tr>
</tbody>
</table>
Environmental Management (Atmospheric Pollution Control) Regulations, 2009

<table>
<thead>
<tr>
<th>Particulates</th>
<th>as NO₂</th>
<th>as NO₂</th>
<th>as NO₂</th>
<th>as NO₂</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>&lt;60 mg/m³</td>
<td>&lt;90 mg/m³</td>
<td>&lt;100 mg/m³</td>
<td>&lt;120 mg/m³</td>
</tr>
<tr>
<td>Arsenical ores and concentrates</td>
<td>&lt;12 mg/m³</td>
<td>&lt;24 mg/m³</td>
<td>&lt;36 mg/m³</td>
<td>&lt;46 mg/m³</td>
</tr>
<tr>
<td>Caustic Soda</td>
<td>100 mg/m³</td>
<td>120 mg/m³</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>C₂H₄Zinc</td>
<td>60 mg/m³</td>
<td>90 mg/m³</td>
<td>120 mg/m³</td>
<td>n/a</td>
</tr>
<tr>
<td>Lime</td>
<td>&lt;60 mg/m³</td>
<td>&lt;90 mg/m³</td>
<td>&lt;100 mg/m³</td>
<td>&lt;120 mg/m³</td>
</tr>
<tr>
<td>Chemical incineration</td>
<td>&lt;40 mg/m³</td>
<td>&lt;60 mg/m³</td>
<td>&lt;80 mg/m³</td>
<td>&lt;100 mg/m³</td>
</tr>
<tr>
<td>SO₂</td>
<td>&lt;30 mg/m³</td>
<td>&lt;40 mg/m³</td>
<td>&lt;50 mg/m³</td>
<td>&lt;50 mg/m³</td>
</tr>
<tr>
<td>Producer gas</td>
<td>&lt;60 mg/m³</td>
<td>&lt;90 mg/m³</td>
<td>&lt;100 mg/m³</td>
<td>&lt;120 mg/m³</td>
</tr>
<tr>
<td>Sulphur dioxide gas</td>
<td>&lt;40 mg/m³</td>
<td>&lt;60 mg/m³</td>
<td>&lt;80 mg/m³</td>
<td>&lt;100 mg/m³</td>
</tr>
<tr>
<td>Limestone and/or dolomite crushing</td>
<td>&lt;30 mg/m³</td>
<td>&lt;40 mg/m³</td>
<td>&lt;50 mg/m³</td>
<td>&lt;50 mg/m³</td>
</tr>
<tr>
<td>Tanning</td>
<td>&lt;60 mg/m³</td>
<td>&lt;90 mg/m³</td>
<td>&lt;100 mg/m³</td>
<td>&lt;120 mg/m³</td>
</tr>
</tbody>
</table>

* No limits currently exist
** to be used in a closed system

**Table 2: Permitted emission of grit and fine grit**

1.—
Maximum Continuous rating in kilograms of steam per hour (from and at 100° C)
Up to 2500
From 2500 to 2500
kilograms for each kilogram of steam

2.—
Fuel consumption in kilograms per hour
Up to 300
From 300 to 3000
of the weight of fuel burned

Maximum Permitted quantities of grit and fine grit in kilograms per hour
0.0015 kilograms per kilogram of steam over 2500

Maximum permitted quantities of grit and fine grit
1.1 per cent of the weight of the

3.3 kilograms plus 0.55 per cent excess of 300 kilograms per hour.

**Table 3: Permitted emissions of smoke**

<table>
<thead>
<tr>
<th>Ringelmann System</th>
<th>Blue</th>
<th>Green</th>
<th>Yellow</th>
<th>Red</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoke Density (%)</td>
<td>0</td>
<td>20</td>
<td>40</td>
<td>60</td>
</tr>
</tbody>
</table>

**Table 4: Permitted emissions of dust**

<table>
<thead>
<tr>
<th>PM₁₀ levels</th>
<th>Blue</th>
<th>Green</th>
<th>Yellow</th>
<th>Red</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;10 mg/m³</td>
<td>&lt;20 mg/m³</td>
<td>&lt;30 mg/m³</td>
<td>&lt;50 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>
S.I. 72 of 2009

FOURTH SCHEDULE (Section 3)

EXEMPTED MATTER OR AIR POLLUTION ACTIVITIES

Matter/Air pollution activities
(a) Matter which is burnt in connection with—
   (i) research into the cause or control of fire or
   (ii) training in fire fighting

(b) Tar, pitch, asphalt and other matter, which is
    burnt in connection with resurfacing, together
    with any fuel used for such purpose.

(c) Carcasses of animals or poultry which have
    been slaughtered, have died, or are reasonably
    believed to have died because of disease

(d) Active operations conducted during emergency
    life-threatening situations, or in conjunction
    with any officially declared disaster or state of
    emergency.

Weed or pests abatement operations
ordered by the government or authorised
agency

The conditions referred to in the second column are:

A. that there is no other reasonably safe and practicable method of disposing of the matter
B. that the burning is carried out in such a manner to minimize the emanation of dark smoke
C. that the burning is carried out under the direction and continuous supervision of the occupier
   of the premises concerned or a person authorized to act on his/her behalf.

FIFTH SCHEDULE (Section 4)

EMISSION STANDARDS FOR MOTOR VEHICLES

Emission standards for motor vehicles, Maximum permissible discharge for a particular compound.

<table>
<thead>
<tr>
<th>Compound</th>
<th>Limit</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>100mg/m³ or 90ppm</td>
<td>15 Minutes</td>
</tr>
<tr>
<td>Pb</td>
<td>0.5-1mg/m³</td>
<td>Annual</td>
</tr>
<tr>
<td>NO₂</td>
<td>200µg/m³ or 11ppm</td>
<td>1 hour</td>
</tr>
<tr>
<td>O₃</td>
<td>120µg/m³ or 6ppm</td>
<td>8 hours</td>
</tr>
<tr>
<td>Particulate matter</td>
<td>50µg/m³ or 25ppm</td>
<td>Annual</td>
</tr>
<tr>
<td>SO₂</td>
<td>500µg/m³ or 175ppm</td>
<td>10 Minutes</td>
</tr>
</tbody>
</table>

SIXTH SCHEDULE (Section 6)

CRITERIA FOR EMISSION LICENCES

Emission licence classification criteria

<table>
<thead>
<tr>
<th>Classification</th>
<th>Risk</th>
<th>Reasons for classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>Safe</td>
<td>Complies with blue standards</td>
</tr>
<tr>
<td>Green</td>
<td>Low hazard</td>
<td>Emissions meets green standard, or blue Licence</td>
</tr>
<tr>
<td></td>
<td></td>
<td>conditions not being met.</td>
</tr>
<tr>
<td>Yellow</td>
<td>Medium hazard</td>
<td>Emissions meet yellow standard, or green Licence</td>
</tr>
<tr>
<td></td>
<td></td>
<td>conditions not being met.</td>
</tr>
<tr>
<td>Red</td>
<td>High hazard</td>
<td>Emissions meet red standard, or yellow Licence</td>
</tr>
<tr>
<td></td>
<td></td>
<td>conditions not being met.</td>
</tr>
</tbody>
</table>
Environmental Management (Atmospheric Pollution Control) Regulations, 2009

Air quality checklist

Please check the following if it applies to you:
(check the column on the side if you have the following)

Does your process involve the treatment/emission of Hazardous Waste as defined in the Hazardous Waste Regulation? (If so, please describe, include type of hazardous waste and treatment works.)

Please specify the types of treatment technologies and/or procedures that you are using.

Does your process involve incineration, pyrolysis, gasification or other thermal processes?

Does your process involve contaminated soil treatment?

Does your facility have the potential to emit any of the following Hazardous Air Pollutants? (HAP)

<table>
<thead>
<tr>
<th>CAS#</th>
<th>HAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>79-34-5</td>
<td>1,1,2,2-Tetrachloroethane</td>
</tr>
<tr>
<td>79-00-5</td>
<td>1,1,2-Trichloroethane</td>
</tr>
<tr>
<td>106-93-4</td>
<td>1,2-Dibromoethane (ethylene dibromide)</td>
</tr>
<tr>
<td>107-06-2</td>
<td>1,2-Dichloroethane (ethylene dichloride)</td>
</tr>
<tr>
<td>106-89-0</td>
<td>1,3-Butadiene</td>
</tr>
<tr>
<td>106-46-7</td>
<td>1,4-dichlorobenzene</td>
</tr>
<tr>
<td>75-07-0</td>
<td>Acetaldehyde</td>
</tr>
<tr>
<td>107-02-8</td>
<td>Acrolein</td>
</tr>
<tr>
<td>107-13-1</td>
<td>Acrylonitrile</td>
</tr>
<tr>
<td>NA - 02</td>
<td>Arsenic (and its compounds)</td>
</tr>
<tr>
<td>71-43-2</td>
<td>Benzene</td>
</tr>
<tr>
<td>NA - 03</td>
<td>Cadmium (and its compounds)</td>
</tr>
<tr>
<td>56-23-5</td>
<td>Carbon tetrachloride</td>
</tr>
<tr>
<td>7782-50-5</td>
<td>Chlorine</td>
</tr>
<tr>
<td>67-66-3</td>
<td>Chloroform</td>
</tr>
<tr>
<td>NA - 04</td>
<td>Chromium (and its compounds) as Cr VI</td>
</tr>
<tr>
<td>75-09-2</td>
<td>Dichloromethane (methylene chloride)</td>
</tr>
<tr>
<td>75-21-8</td>
<td>Ethylene oxide</td>
</tr>
<tr>
<td>50-00-0</td>
<td>Formaldehyde</td>
</tr>
<tr>
<td>7439-92-1</td>
<td>Lead (and its compounds)</td>
</tr>
<tr>
<td>NA - 09</td>
<td>Manganese (and its compounds)</td>
</tr>
<tr>
<td>NA - 10</td>
<td>Mercury (and its compounds)</td>
</tr>
<tr>
<td>101-68-8</td>
<td>Methylenebis (pheny)isocyanate (MDI)</td>
</tr>
<tr>
<td>NA - 11</td>
<td>Nickel (and its compounds)</td>
</tr>
<tr>
<td>TEMP-08-3</td>
<td>Polychlorinated dibenzodioxins (PCDDs)</td>
</tr>
<tr>
<td>TEMP-08-4</td>
<td>Polychlorinated dibenzofurans (PCDFs)</td>
</tr>
<tr>
<td>TEMP-10-3</td>
<td>Polycyclic aromatic hydrocarbons (PAHs)</td>
</tr>
<tr>
<td>127-18-4</td>
<td>Tetrachloroethylene</td>
</tr>
<tr>
<td>584-84-9</td>
<td>Toluene-2,4-diisocyanate (TDI)</td>
</tr>
</tbody>
</table>

Is your facility involved with any of the following:
- Animal processing
- Feed manufacturing
- Surface coating/painting
- Chemical or petroleum processing/production
- Other facility with odour generating services (please specify)
S.I. 72 of 2009

SEVENTH SCHEDULE (Section 22)
CARBON TAX RATES PER FUEL TYPE.

<table>
<thead>
<tr>
<th>Fuel type</th>
<th>Tax rate as %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal</td>
<td>2.0</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>1.0</td>
</tr>
<tr>
<td>Distillate Fuel</td>
<td>2.0</td>
</tr>
<tr>
<td>Kerosene</td>
<td>2.0</td>
</tr>
<tr>
<td>Jet Fuel</td>
<td>2.0</td>
</tr>
<tr>
<td>Lubricants</td>
<td>2.5</td>
</tr>
<tr>
<td>Unleaded Petrol</td>
<td>2.0</td>
</tr>
<tr>
<td>Leaded Petrol</td>
<td>3.0</td>
</tr>
<tr>
<td>Diesel</td>
<td>3.5</td>
</tr>
<tr>
<td>Other Oils</td>
<td>2.0</td>
</tr>
<tr>
<td>Other Fuels</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Carbon tax will be charged as a percentage of the landed price per unit of fuel at port of entry for imported fuels and as a percentage of the sale price per unit of fuel for fuels not imported.

EIGHTH SCHEDULE (Section 23)
REPEALS

<table>
<thead>
<tr>
<th>Title</th>
<th>Statutory Instrument</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atmospheric Pollution Prevention (Control of Emissions) Regulations, 2000</td>
<td>41 of 2000</td>
</tr>
<tr>
<td>Atmospheric Pollution Prevention (Registration of Specified Processes)(Fees) Regulations, 2000</td>
<td>32 of 2000</td>
</tr>
<tr>
<td>Atmospheric Pollution Prevention (Smoke Control) Regulations, 1975</td>
<td>939 of 1975</td>
</tr>
<tr>
<td>Atmospheric Pollution Prevention (Smoke Control) (Amendment) Regulations, 1976 (No. 1)</td>
<td>618 of 1976</td>
</tr>
<tr>
<td>Atmospheric Pollution Prevention (Smoke Control) (Amendment) Regulations, 1979 (No. 2)</td>
<td>650 of 1979</td>
</tr>
</tbody>
</table>