ENVIROMENTAL PROTECTION DEPARTMENT

Guidance Notes

Application for Motor Vehicle Exhaust Emission and Noise Emission Type Approval
(For motor vehicle with design weight of not more than 3.5 tonnes)

1. Application form

The application form consists of two parts, PART I and PART II. PART I is the applicant’s information and PART II is information of the vehicle model for which type approval is sought. Please note that no exhaust emission type approval is required for pure electric vehicles, in which case you should complete Section A of PART I and Section C of PART II for noise emission type approval only. You should complete relevant items and provide all necessary information in supporting your application. TWO copies of PART I are required if you apply for both vehicle exhaust and noise emission type approval.

2. Authorized signature

The application form and the CD-ROMs must have authorized signatures of the vehicle / engine manufacturer to certify that the information of the vehicle / engine model under application is correct and complete.

3. Checklist

The information in the checklist is essential for your application. You may provide other information to support your application.

4. Submission of Application

The completed application form together with all supporting documents can be sent by post or in person to
Environmental Protection Department
Mobile Source Policy Section (1)
Room 4518, 45/F., Revenue Tower,
5 Gloucester Road, Wan Chai, Hong Kong.

Enquiry:
E-mail address: mktang@epd.gov.hk on exhaust emission
E-mail address: michaelwong@epd.gov.hk on noise emission
Telephone: (852) 2594 6332 Fax: (852) 2824 9361 on exhaust emission
Telephone: (852) 2411 9665 Fax: (852) 2413 3358 on noise emission
APPLICATION FOR MOTOR VEHICLE EXHAUST AND NOISE EMISISON TYPE APPROVAL

(For motor vehicle with design weight of not more than 3.5 tonnes)

For pure electric vehicles, please complete Section A of PART I and Section C of PART II only

Vehicle Make & Model: ____________________________________________
Class of Vehicle: (e.g. Private Car) ____________________________________

PART I

A. Applicant’s information

Company: __________________________________________________________
Address: __________________________________________________________
Business Registration No.: ___________________________________________
Telephone No.: __________________ Fax No.: ____________________________
Name and Telephone No. of Contact Person (if applicable): __________________

Signature (Applicant): ______________________________________________
Name: ___________________________ Position: __________________________
E-mail Address: ______________________ Date: _________________________

Checklist

Please tick the relevant boxes

☐ Two copies of PART I – Applicant’s information
☐ One copy of PART II – Information of the Vehicle Model for Type Approval
☐ *One CD-Rom containing third party certificates for exhaust emission / *One hard copy of third party certificate for exhaust emission
☐ *One CD-Rom containing third party certificates for noise emission / *One hard copy of third party certificate for noise emission
☐ *Certification issued by the Ministry of Land, Infrastructure and Transport
☐ *Other supporting documents, please specify _____________________________

Submission of Application

The completed application form together with all supporting documents can be sent by post or in person to

Environmental Protection Department
Mobile Source Policy Section (1)
Room 4518, 45/F., Revenue Tower,
5 Gloucester Road, Wan Chai, Hong Kong.

Note: * Delete as appropriate
B.1) **Declaration by Vehicle Manufacturer**

**I certify that**

(a) the information in PART II – Information of the Vehicle Model for Type Approval is the correct description of the vehicle or engine model under application.

(b) the vehicle / engine type described in Part A, Part B and Part C complies with the vehicle exhaust emission standards and the noise emission standards as laid down in the Air Pollution Control (Vehicle Design Standards) (Emission) Regulation and Noise Control (Motor Vehicles) Regulation respectively.

(c) adequate arrangements and prepared documented quality control plans with certification to international standard such as EN ISO 9002 – 1994, or EN ISO 9001 – 2000 or an equivalent standard acceptable by the Environmental Protection Department has been set up to ensure all vehicles and engines produced and offered for sale in Hong Kong comply with the exhaust emission standards as laid down in the Air Pollution Control (Vehicle Design Standards) (Emission) Regulations.

(d) at least 1% (or % as agreed with the Environmental Protection Department) of the total sales of the vehicles or engines of the model for which emission type approval is sought, and destined for Hong Kong will be sampled randomly for exhaust emission test to confirm the vehicle model complies with the emission requirements in the Air Pollution Control (Vehicle Design Standards) (Emission) Regulations.

(e) an annual report will be submitted to the Environmental Protection Department for the approved vehicle model or engine model substantiating the fulfillment of the conformity of production requirements in the approved conformity production plan.

(f) carbon dioxide emissions and fuel consumption figures of the vehicle shall set out in document, website or etc to potential purchasers.

Authorised Homologation Staff (Signature): ______________________________________

Name and Position: __________________________________________________________

Company: __________________________________________________________________

Date: ______________________________________________________________________
B.2) Declaration by vehicle dealer who will provide the vehicle model with design weight of not more than 3.5 tonnes and equipped with SCR system

I undertake that

(a) adequate arrangements will be made to ensure uninterrupted supply of urea solution complying with DIN 70070 standards in appropriate locations such as customer service centres or maintenance depots to customers;

(b) characteristics of urea solution (e.g. type, concentration and operational temperature conditions), proper operation of the vehicles and the frequency of refilling the urea solution should be informed to the customers;

(c) information about the urea refilling infrastructure such as locations and the contact numbers will be disseminated to customers upon the purchase of vehicles equipped with SCR system;

(d) any change of location for urea solution should inform the customers and Motor Trader Association as far as practicable by appropriate means.

Authorised Dealer’s Staff (Signature): ________________________________
Name and Position: ________________________________
Company: ________________________________
Date: ________________________________
This vehicle model can meet the qualifying standards of Environment-friendly Commercial Vehicle. YES/ NO

A. Details of the Motor Vehicle, Engine, Air–Intake and Exhaust Control Systems

A.1) Description of Motor Vehicle

Make : 
Model (Sales Designation) : 
Registration Class : 

Manufacturer’s Name and Address : 
Manufacturer’s Representative’s Name and Address :

Design Weight (kg)\(^{(1)}\) : 
Unladen Mass of Vehicle (kg) : 
Reference Mass of Vehicle (kg)\(^{(2)}\) : 

Maximum Technically Permissible Mass of Vehicle (kg)\(^{(3)}\) : (Laden)

Seating Capacity (Excluding Driver) : 
Number of Doors (Excluding hatchback): 

Gearbox - Type : Manual / Automatic / CVT* - Model No. :
Number of Gears :

Gear Ratios - First : Second : Third :
- Fourth : Fifth : Sixth :

For CVT - Minimum Ratio :
- Maximum Ratio :

Final Drive Ratio :

Driving Wheels : Front / Rear / All* 
Tyre Specifications - Front :
- Rear :

Note: * Delete as appropriate
CVT means Continuously Variable Transmission
(1) Maximum design loaded vehicle weight as recommended by the manufacturer of a motor vehicle
(2) Mass of vehicle in running order less the uniform mass of the driver of 75kg and increased by a uniform mass of 100kg
(3) The maximum mass of the vehicle based on its construction and performance, stated by the manufacturer.
A.2) Description of Engine

Make : 
Type : 
Cycle : Four Stroke / Two Stroke / Others* (please specify) -
Ignition System : Positive Ignition / Compression Ignition*
Number and Arrangement of Cylinders :
Bore (mm) :
Stroke (mm) :
Firing Order of Cylinders :
Engine Capacity (litre) :
Volumetric Compression Ratio :
Idle Engine Speed (rpm) :
Rated Maximum Power Output : __________ kW at __________ rev/min
Rated Maximum Torque Output : __________ Nm at __________ rev/min
Maximum Designed No Load Engine Speed (Diesel only) (rpm):
Fuel used :
Vehicle Fuel Type : Mono Fuel / Bi Fuel / Flex Fuel*
Maximum Amount of Biofuel Acceptable in Fuel (% by Volume):
Fuel Supply System : Direct Injection / Indirect Injection*
Cooling System :
Method of Aspiration: Natural / Turbocharger & Intercooler or Aftercooler / Other* (please specify) -
Hybrid Electric Vehicle : Yes / No*
Category of Hybrid Electric Vehicle : Off Vehicle Charging / Not off Vehicle Charging*
Operating Mode Switch : With / Without*
Start-Stop System : Yes / No*

Note: * Delete as appropriate
A.3) Description and Drawings of the Air-intake and Exhaust Control System

1. Air-Intake System

Description and drawings (showing in a plan view and a lateral view) of the air-intake system indicating the location of the intake silencer(s) and the air filter(s):

(i) Air Filter, drawings number:

Model / Type :
Identification Marks :
Manufacturer / Authorized Agent :

(ii) Air Intake Silencer, drawings number:

Model / Type :
Identification Marks :
Manufacturer / Authorized Agent :

2. Exhaust Control System

Description and drawings (showing in a plan view and a lateral view) of the exhaust system indicating the location of the muffler(s), the catalytic converter(s) and the oxygen sensor(s):

(i) Exhaust Silencer, drawings number:

Model / Type (with numbers) :
Identification Marks :
Manufacturer / Authorized Agent :

(ii) Device for Recycle Crankcase Gases: Yes / No*

Description and drawing number :

(iii) Catalytic Converter, drawings number:

Model / Type (with numbers) :
Identification Marks :
Manufacturer / Authorized Agent :
(iv) **Oxygen Sensor, drawings number:**

Design range of Lambda value at high idle speed is $1 \pm 0.03$:  
Yes / No*  
if no, please specify -  

Model / Type (with numbers) :  

Identification Marks :  

Manufacturer / Authorized Agent :  

(v) **Secondary Air Injection:**  Yes / No*  

Description and drawing number :  

(vi) **Exhaust Gas Recirculation:**  Yes / No*  

Description and drawing number :  

(vii) **Evaporative Emission Control System:**  Yes / No*  

Description and drawing (showing in schematic diagram):  

Drawing number of Carbon Canister :  

(viii) **Particulate Trap / Diesel Particulate Filter***:  Yes / No*  

Description and drawing number :  

(ix) **NOx Sensor:**  Yes / No*  

Description and drawing number :  

(x) **Other Anti-Pollution Devices:**  Yes / No*  

Description and drawing number :  

A.4) **Description and Diagram of Motor Vehicle with Overall Dimensions**  

(including Fuel Tank Filling Pipe Neck Inside Diameter for petrol vehicles only)  

* Note: Attach separate sheet(s) showing a plan view, a front view and a lateral (side) view  

Fuel Tank Filling Pipe Neck Inside Diameter for petrol vehicle:  

Overall Dimensions of Motor Vehicle  

<table>
<thead>
<tr>
<th>Length</th>
<th>Wide</th>
<th>Height</th>
</tr>
</thead>
</table>

A.5) **Maintenance and Service Schedule under Normal and Severe Use**  

* Note: Attach separate sheet(s) if necessary  

Note: * Delete as appropriate
A.6) Details of On-Board Diagnostic (OBD) System


2. Attach comprehensive fault code list and descriptions of the malfunction indicator (MI) used by the OBD system to signal the presence of faults.

3. Attach list of all relevant parts of the vehicle’s emission control system that are monitored by the OBD system such as catalyst & oxygen sensor monitoring, misfire detection, electronic evaporative purge control device (if equipped), etc., for positive ignition engine and catalyst/electronic fuelling system / particulate trap monitoring, etc., for compression ignition engines. Details of monitoring method, monitoring flow chart (if any), monitoring condition and malfunction criteria for each relevant part monitored by the OBD system.

4. Full OBD system test report
   Attach a full OBD system test report. The OBD system test has been carried out in accordance with the requirements as specified in Regulation (EC) No. 715/2007 of the European Parliament and of the Council and Commission Regulation (EC) No. 692/2008 as amended by its subsequent amendments up to and including amendments made by Commission Regulations (EU) No. 566/2011 or other equivalent* (state if any) 
   Certified true copy by the Homologation Department is acceptable.

A.7) Access to Vehicle OBD and Vehicle Repair and Maintenance Information
   Provide proof of compliance for Access to Vehicle OBD and Vehicle Repair and Maintenance Information.

Note: * Delete as appropriate
B. Exhaust Emission Results

Important Notes:

(1) For emission tests conforming to EC Directive, please complete Parts B.1 and B.2 and provide necessary EC Type Approval Certificates for Exhaust Emission, Carbon Dioxide Emissions and Fuel Consumption or third party supporting information such as emission test report, etc. for verifying the emission test results in Part B.2.

(2) For emission tests conforming to Japan Standard, please complete Parts B.1 and B.2 and complete the following information:
- □ This model is approved under type designation of device approval system in Japan.
- □ This model is approved under whole vehicle type approval system in Japan,
- □ A copy of the test report from NTSEL is attached.

(3) For emission tests conforming to US Standard, please complete Parts B.1 and B.2 and provide necessary supporting information such as emission test reports for verifying emission test results in Part B.2.

B.1) Certificate of Compliance for Gaseous, Particulate & Smoke Emission

Vehicle Make :
Engine Make :
Vehicle Type (Model Code) :
  Variant :
  Version :
Vehicle Model :
Engine Model :
Manufacturer’s name and address :

Specify EC Certificate Number / Conforming Standard for
Whole Vehicle Type Approval :
Exhaust Emission :
Fuel Consumption :

Test Report Number for
Whole Vehicle Type Approval :
Exhaust Emission :
Fuel Consumption :
OBD System :
Test Fuel Specifications : Values of RON / MON / Lead Content / Sulphur Content
B.2) Motor Vehicle Exhaust Emission Test Report

1. Identification of Vehicle Tested
   Engine No. (1): 
   Chassis No. (1): 
   Odometer Reading (km): 

2. Emission Test Results

2.1 Type I Test (Verifying the Average Tailpipe Emissions after a Cold Start)
   Date of Testing:
<table>
<thead>
<tr>
<th>Emitted Mass</th>
<th>Unit</th>
<th>Deterioration Factor</th>
<th>Result</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HC</td>
<td>(in g/km)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HC+NOₓ</td>
<td>(in g/km)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NMHC</td>
<td>(in g/km)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>(in g/km)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOₓ</td>
<td>(in g/km)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NMOG</td>
<td>(in g/km)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HCHO</td>
<td>(in mg/km)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PM</td>
<td>(in g/km)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PN</td>
<td>(in #/km)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2.2 Type II Test (Carbon Monoxide Emission at Idling Speed)
   Date of Testing: 
   At Idling Engine Speed (min⁻¹): 
   Corrected CO Value (% Volume): 
   Limit (% Volume): 

2.3 Type III Test (Crankcase Emission Test)
   Date of Testing: 
   Test Result: 

2.4 Type IV Test (Evaporative Emission Test)
   Date of Testing: 
   Test Method: 
   Test Result (g/test): 
   Limit (g/test): 

Note: (1) Details of the engine / chassis code to support the vehicle / engine tested are applicable to the applied vehicle.
2.5 Type V Test (Durability of Anti-Pollution Control Devices)

Date of Testing : 
Durability Type : 160,000 km\(^{(a)}\) / 80 000 km\(^{(b)}\) / 50,000 and 120,000 miles\(^{(c)}\) *
Deterioration Factors : Fixed / Calculated and Additive / Calculated and Multiple* 

<table>
<thead>
<tr>
<th>Deterioration Factor :</th>
</tr>
</thead>
<tbody>
<tr>
<td>HC</td>
</tr>
</tbody>
</table>

2.6 Roadworthiness Test

Date of Testing: 

<table>
<thead>
<tr>
<th>CO Value (% Vol.)</th>
<th>Lambda</th>
<th>Engine Speed (min(^{-1}))</th>
<th>Engine Oil Temperature (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Idle Test</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Idle Test</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2.7 Results of the CO\(_2\)-Emission / Fuel Consumption Tests

Date of Testing: 

<table>
<thead>
<tr>
<th>Urban Conditions</th>
<th>Extra-urban Conditions</th>
<th>Combined Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO(_2) Emission (g/km)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel Consumption (L/100km)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Name and Address of the Approved Test Laboratory : 
Laboratory Approved by : 
(Name and Address of National or Recognised Authority)

Note: * Delete as appropriate
(a) Durability type for emission tests conforming to EC Directive
(b) Durability type for emission tests conforming to Japan Standard
(c) Durability type for emission tests conforming to USA Standard
2.8 Smoke Test (For diesel engine only)

Free Acceleration Smoke Test Result according to 72/306/EC test procedure and its subsequent amendments up to and including amendments made by 2005/21/EC.

**Identification of Vehicle Tested**

<table>
<thead>
<tr>
<th>Engine No. (1)</th>
<th>:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chassis No. (1)</td>
<td>:</td>
</tr>
<tr>
<td>Odometer Reading (km)</td>
<td>:</td>
</tr>
<tr>
<td>Date of Testing</td>
<td>:</td>
</tr>
<tr>
<td>Opacimeter Used</td>
<td>:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Light Absorption Coefficient (m⁻¹)</th>
<th>Measured</th>
<th>Corrected Value</th>
<th>Limit</th>
</tr>
</thead>
</table>

Name and Address of the Approved Test Laboratory : 

Laboratory Approved by : 
(Name and Address of National or Recognised Authority)

Note: (1) Details of the engine / chassis code to support the vehicle / engine tested are applicable to the applied vehicle.
C. Details of the Motor Vehicle, Engine / Electric Motor* and Noise Emission Test Results

Important Notes:

(1) For noise emission tests conforming to European Union (EU) Directive, please complete Part C.1 (applicable to pure electric vehicles only), Part C.2, Part C.3 and Appendix I and provide necessary EU Type Approval Certificate for Noise Emission or certificate for noise emission issued by third party recognized by EU Type Approval Authority, etc. for verifying the noise emission test results in Part C.2, Part C.3 & Appendix I. A copy of the corresponding test report is necessary.

(2) For noise emission tests conforming to Japan Standard, please complete Part C.1 (applicable to pure electric vehicles only), Part C.2, Part C.3 and Appendix I and complete the following information:
- This model is approved under type designation of device approval system in Japan.
- This model is approved under whole vehicle type approval system in Japan.
- A copy of the test report from NTSEL is attached.

C.1) Declaration by Vehicle Manufacturer (applicable to pure electric vehicles only)

I certify that

(a) the information in this Section C is the correct description of the vehicle type under application.

(b) the vehicle type described in this Section C complies with the noise emission standards as laid down in the Noise Control (Motor Vehicles) Regulation.

(c) the vehicle selected for the noise test is representative of the above vehicle type and the noise test results are given in Appendix I below.

Authorised Homologation Staff (Signature): ________________________________
Name and Position: ________________________________
Company: ________________________________
Date: ________________________________
C.2) Details of the Motor Vehicle and Engine / Electric Motor*

Vehicle Make : 

Vehicle Model & Sales Designation : 

Vehicle Registration Class : 

Engine / Electric Motor* Make : 

Engine / Electric Motor* Type : 

Engine Capacity (litre) : 

Fuel used : 

Rated Maximum Power Output of Engine : __________ kW at ________ rev/min

/ Maximum Hourly Output of Electric Motor* : __________ kW

Manufacturer’s name and address : 

Name and Address of Manufacturer’s Representative : 

Design Weight (kg) (1) : 

Unladen Mass of Vehicle (kg) : 

Maximum Technically Permissible Mass of Vehicle (kg) (2) (Laden) : 

Seating capacity (excluding driver) : 

Gear Box Type : Manual / Automatic / CVT*

Number of Gears : 

Conforming noise standards : 

The noise emission test results for the test motor vehicle are summarised in Part C.3 as follows.

Name and address of Manufacturer’s testing site (if different from above) or Acoustic Testing Laboratory:

Note: * Delete as appropriate
CVT means Continuously Variable Transmission
(1) Maximum design loaded vehicle weight as recommended by the manufacturer of a motor vehicle
(2) The maximum mass of the vehicle based on its construction and performance, stated by the manufacturer
C.3) Motor Vehicle Noise Emission Level Test Results

The description of the motor vehicle and engine / electric motor** is in Part C.2.

Identification of Vehicle Tested

Engine / Electric Motor No.* :
Chassis No.* :

Test Date :
Test Site :
Name and address of the Acoustic Testing Laboratory:

The tests have been carried out in accordance with the testing procedures of the noise standards (EEC or Japan **) in the Noise Control (Motor Vehicles) Regulations. The specific testing procedure adopted is # (select whichever is appropriate).

# Accelerated Running Noise Level Test (EEC and Japan noise standard)
# Stationary Noise Level Test (EEC standard only)
# Compressed Air Noise Test (where applicable, EEC standard only)
# Steady Running Noise Level Test (Japan standard only)
# Proximity Stationary Noise Level Test (Japan standard only)

Note: You should also provide the appropriate test results which comply with the noise standards indicated above. A model test results format as shown in Appendix I, for reference, should facilitate the interpretation of test results.

Note: * Details of the engine / chassis code to support the vehicle / engine tested are applicable to the applied vehicle
** Delete as appropriate
**Appendix I  Model format for the presentation of the motor vehicle noise results**

1) **Accelerated Running Noise Level Test (for EEC and Japan noise standard)**

<table>
<thead>
<tr>
<th>No. of Measurement</th>
<th>Used gear position or range</th>
<th>Specified speed (km/h)</th>
<th>Test speed (km/h)</th>
<th>Level of ambient noise dB(A)</th>
<th>Motor vehicle noise level dB(A)</th>
<th>Test result dB(A)</th>
<th>Noise level Limit dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Entry</td>
<td>Exit</td>
<td>Measured value Left</td>
<td>*Right Compensated value</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note: * Denotes EEC test procedure requires noise levels be recorded on both the left and the right handed side of the test vehicle.

2) **Stationary Noise Level Test (for EEC Standard only)**

<table>
<thead>
<tr>
<th>No. of Measurement</th>
<th>Engine speed delivering maximum powered output (rpm)</th>
<th>Level of ambient noise dB(A)</th>
<th>Motor vehicle noise level dB(A)</th>
<th>Test result dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3) **Compressed Air Noise Test (where applicable, for EEC Standard only)**

<table>
<thead>
<tr>
<th>No. of Measurement</th>
<th>Level of Ambient Noise dB(A)</th>
<th>Measured value Left</th>
<th>Right</th>
<th>Test result dB(A)</th>
<th>Noise level limit dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4) **Steady Running Noise Level Test (for Japan noise standard only)**

<table>
<thead>
<tr>
<th>No. of Measurement</th>
<th>Used gear position or range</th>
<th>Specified speed (km/h)</th>
<th>Test speed (km/h)</th>
<th>Level of ambient noise dB(A)</th>
<th>Motor vehicle noise level dB(A)</th>
<th>Test result dB(A)</th>
<th>Noise level Limit dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Measured value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Compensated value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
5) Proximity Stationary Noise Level Test (for Japan noise standard only)

<table>
<thead>
<tr>
<th>No. of Measurement</th>
<th>Engine speed delivering maximum powered output (rpm)</th>
<th>Level of ambient noise dB(A)</th>
<th>Motor vehicle noise level (dB)</th>
<th>Test result dB(A)</th>
<th>Noise level limit dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Left</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Environmental Protection Department
April 2015