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## **No. S 249**

### **ENVIRONMENTAL PROTECTION AND MANAGEMENT ACT 1999**

### **ENVIRONMENTAL PROTECTION AND MANAGEMENT (VEHICULAR EMISSIONS) (AMENDMENT) REGULATIONS 2022**

In exercise of the powers conferred by sections 12(5) and 77(1) of the Environmental Protection and Management Act 1999, the National Environment Agency, with the approval of the Minister for Sustainability and the Environment, makes the following Regulations:

#### **Citation and commencement**

1. These Regulations are the Environmental Protection and Management (Vehicular Emissions) (Amendment) Regulations 2022 and come into operation on 1 April 2022.

#### **Amendment of regulation 5**

2. In regulation 5 of the Environmental Protection and Management (Vehicular Emissions) Regulations (Rg 6) (called in these Regulations the principal Regulations), replace “1st October 2010” with “1 April 2022”.

#### **Replacement of Fourth Schedule**

3. The Fourth Schedule to the principal Regulations is replaced with —

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“FOURTH SCHEDULE

Regulations 5 and 9

STANDARD FOR NOISE EMISSION FOR  
NEW MOTOR VEHICLES

Motor vehicles of the following classes must not emit any noise exceeding the noise level specified in the second column when measured 0.5 metre from the open end of the exhaust pipe of the vehicle or must conform to the standards for exhaust noise emission specified in the third column:

<i>First column</i>	<i>Second column</i>	<i>Third column</i>
<i>Class of vehicle</i>	<i>Noise level in Decibels (A)</i>	<i>Standard for exhaust noise emission</i>
(a) Two-wheeled motor cycle (with or without a side car) or two-wheeled scooter (with or without a side car)	94	(i) Directive 97/24/EC of the European Parliament and of the Council of 17 June 1997 on certain components and characteristics of two or three-wheel motor vehicles;  (ii) Articles 30 and 65 of the Safety Regulations for Road Vehicles as amended by the Ministry of Transport Ordinance No. 5 of 21 February 2000 and No. 66 of 20 December 1996, respectively, of Japan;

- (iii) Regulation No. 41 of the Economic Commission for Europe of the United Nations (UN/ECE) - Uniform provisions concerning the approval of motor cycles with regard to noise (Revision 2, incorporating the 03 or 04 series of amendments to the Regulation);
- (iv) Regulation (EU) 168/2013 of the European Parliament and of the Council of 15 January 2013 on the approval and market surveillance of two- or three-wheel vehicles and quadricycles; or
- (v) Paragraph 1(4) of Article 40 and paragraph 1(3) of Article 252 of the Japanese Ministry of Land, Infrastructure and Transport Announcement No. 619 dated 15 July 2002 (ANNOUNCEMENT THAT PRESCRIBES DETAILS OF SAFETY REGULATIONS FOR ROAD VEHICLES), as amended by the Japanese Ministry of Land, Infrastructure, Transport and Tourism Announcement No. 681 dated 20 April 2016

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| (b) Three-wheeled motor cycle or three-wheeled scooter | 94 | (i) Directive 97/24/EC of the European Parliament and of the Council of 17 June 1997 on certain components and characteristics of two or three-wheel motor vehicles;   |
|  |    | (ii) Articles 30 and 65 of the Safety Regulations for Road Vehicles as amended by the Ministry of Transport Ordinance No. 5 of 21 February 2000 and No. 66 of 20 December 1996, respectively, of Japan;  |
|  |    | (iii) Regulation No. 9 of the Economic Commission for Europe of the United Nations (UN/ECE) - Uniform provisions concerning the approval of motor cycles with regard to noise (Revision 3, incorporating the 07 series of amendments to the Regulation); |
|  |    | (iv) Regulation (EU) 168/2013 of the European Parliament and of the Council of 15 January 2013 on the approval and market surveillance of two- or three-wheel vehicles and quadricycles; or  |

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- (v) Paragraph 1(2) and (3) of Article 40 and paragraph 1(1) and (2) of Article 252 of the Japanese Ministry of Land, Infrastructure and Transport Announcement No. 619 dated 15 July 2002 (ANNOUNCEMENT THAT PRESCRIBES DETAILS OF SAFETY REGULATIONS FOR ROAD VEHICLES), as amended by the Japanese Ministry of Land, Infrastructure, Transport and Tourism Announcement No. 681 dated 20 April 2016
- (c) Motor car, taxi or station wagon (whether for passengers only or for goods and passengers) 96 or (if the engine is at rear end) 100
- (i) EC Council Directive 70/157/EEC of 6 February 1970 as last amended by Commission Directive 96/20/EC of 27 March 1996;
- (ii) Articles 30 and 65 of the Safety Regulations for Road Vehicles as amended by the Ministry of Transport Ordinance No. 5 of 21 February 2000 and No. 66 of 20 December 1996, respectively, of Japan;

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- (iii) Regulation No. 51 of the Economic Commission for Europe of the United Nations (UN/ECE) - Uniform provisions concerning the approval of motor vehicles having at least four wheels with regard to their sound emissions (Revision 2, incorporating the 02 series of amendments to the Regulation), or (Revision 3, incorporating the 03 series of amendments to the Regulation);
  - (iv) Regulation (EU) 540/2014 of the European Parliament and of the Council of 16 April 2014 on the sound level of motor vehicles and of replacement silencing systems, and amending Directive 2007/46/EC and repealing Directive 70/157/EEC; or
  - (v) Paragraph 1(5) of Article 40 of the Japanese Ministry of Land, Infrastructure and Transport Announcement No. 619 dated 15 July 2002 (ANNOUNCEMENT THAT PRESCRIBES DETAILS OF SAFETY REGULATIONS FOR ROAD VEHICLES), as amended by the Japanese Ministry of Land, Infrastructure, Transport and Tourism

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- Announcement No. 681  
dated 20 April 2016
- (d) Goods vehicle or bus with gross vehicle weight not exceeding 3.5 tons 97
- (i) EC Council Directive 70/157/EEC of 6 February 1970 as last amended by Commission Directive 96/20/EC of 27 March 1996;
- (ii) Articles 30 and 65 of the Safety Regulations for Road Vehicles as amended by the Ministry of Transport Ordinance No. 5 of 21 February 2000 and No. 66 of 20 December 1996, respectively, of Japan;
- (iii) Regulation No. 51 of the Economic Commission for Europe of the United Nations (UN/ECE) - Uniform provisions concerning the approval of motor vehicles having at least four wheels with regard to their sound emissions (Revision 2, incorporating the 02 series of amendments to the Regulation), or (Revision 3, incorporating the 03 series of amendments to the Regulation);
- (iv) Regulation (EU) 540/2014 of the European Parliament and of the Council of 16 April 2014 on the sound level of motor vehicles and of replacement silencing systems, and amending

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- Directive 2007/46/EC and  
repealing Directive  
70/157/EEC; or
- (v) Paragraph 1(5) of  
Article 40 of the Japanese  
Ministry of Land,  
Infrastructure and  
Transport Announcement  
No. 619 dated 15 July 2002  
(ANNOUNCEMENT  
THAT PRESCRIBES  
DETAILS OF SAFETY  
REGULATIONS FOR  
ROAD VEHICLES), as  
amended by the Japanese  
Ministry of Land,  
Infrastructure, Transport  
and Tourism  
Announcement No. 681  
dated 20 April 2016
- (e) Goods vehicle                      99                      (i) EC Council Directive  
or bus with  
gross vehicle  
weight  
exceeding  
3.5 tons
- (i) EC Council Directive  
70/157/EEC of 6 February  
1970 as last amended by  
Commission Directive  
96/20/EC of 27 March  
1996;
- (ii) Articles 30 and 65 of the  
Safety Regulations for  
Road Vehicles as amended  
by the Ministry of  
Transport Ordinance No. 5  
of 21 February 2000 and  
No. 66 of 20 December  
1996, respectively, of  
Japan;
- (iii) Regulation No. 51 of the  
Economic Commission for  
Europe of the United  
Nations (UN/ECE) -  
Uniform provisions  
concerning the approval of



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motor vehicles having at least four wheels with regard to their sound emissions (Revision 2, incorporating the 02 series of amendments to the Regulation), or (Revision 3, incorporating the 03 series of amendments to the Regulation);

- (iv) Regulation (EU) 540/2014 of the European Parliament and of the Council of 16 April 2014 on the sound level of motor vehicles and of replacement silencing systems, and amending Directive 2007/46/EC and repealing Directive 70/157/EEC; or
- (v) Paragraph 1(5) of Article 40 of the Japanese Ministry of Land, Infrastructure and Transport Announcement No. 619 dated 15 July 2002 (ANNOUNCEMENT THAT PRESCRIBES DETAILS OF SAFETY REGULATIONS FOR ROAD VEHICLES), as amended by the Japanese Ministry of Land, Infrastructure, Transport and Tourism Announcement No. 681 dated 20 April 2016

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## Replacement of Sixth Schedule

4. The Sixth Schedule to the principal Regulations is replaced with —

### “SIXTH SCHEDULE

Regulation 7(1)

#### STANDARD FOR NOISE EMISSION FOR ALL IN-USE MOTOR VEHICLES OTHER THAN LICENSED MOTOR VEHICLES REGISTERED BEFORE 1 JULY 1999

1. A motor vehicle of any of the following classes must not emit any noise exceeding the noise level specified against that class of motor vehicle when measured 0.5 metre from the open end of the exhaust pipe of the vehicle:

<i>First column</i>	<i>Second column</i>
<i>Class of vehicle</i>	<i>Noise level in Decibels (A)</i>
(a) Motor cycle (with or without a side car), scooter or trivan	The higher of the following: (i) 99; (ii) +5 above the reference value for the motor vehicle
(b) Motor car, taxi or station wagon (whether for passengers only or for goods and passengers)	The higher of the following: (i) 103; (ii) +5 above the reference value for the motor vehicle
(c) Goods vehicle or bus with gross vehicle weight not exceeding 3.5 tons	The higher of the following: (i) 103; (ii) +5 above the reference value for the motor vehicle
(d) Goods vehicle or bus with gross vehicle weight exceeding 3.5 tons	The higher of the following: (i) 107; (ii) +5 above the reference value for the motor vehicle

2. In addition, a motor vehicle of any of the following classes, for which a major modification mentioned in rule 12B(2) of the Road Traffic (Motor Vehicles, Registration and Licensing) Rules (R 5) is made involving any modification or alteration of the exhaust system of the motor vehicle, must

conform to any of the standards for exhaust noise emission specified against that class of motor vehicle:

<i>First column</i>	<i>Second column</i>
<i>Class of vehicle</i>	<i>Standard for exhaust noise emission</i>
(a) Two-wheeled or three-wheeled motor cycle (with or without a side car) or two-wheeled or three-wheeled scooter (with or without a side car)	<ul style="list-style-type: none"> <li>(i) Regulation No. 92 of the Economic Commission for Europe of the United Nations (UN/ECE) - Uniform provisions concerning the approval of non-original replacement exhaust silencing systems (RESS) for motorcycles, mopeds and three-wheeled vehicles (Revision 1 - Amendment 2, incorporating the 01 series of amendments to the Regulation);</li> <li>(ii) Directive 97/24/EC of the European Parliament and of the Council of 17 June 1997 on certain components and characteristics of two or three-wheel motor vehicles;</li> <li>(iii) Regulation (EU) 168/2013 of the European Parliament and of the Council of 15 January 2013 on the approval and market surveillance of two- or three-wheel vehicles and quadricycles; or</li> <li>(iv) Automobile Type Approval Handbook for Japanese Certification (Blue Book) 11-3-112 Attachment 112: Technical Standard for Aftermarket Silencers</li> </ul>

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| <p>(b) Motor car, taxi or station wagon (whether for passengers only or for goods and passengers), or goods vehicle or bus</p> | <p>(i) Regulation No. 59 of the Economic Commission for Europe of the United Nations (UN/ECE) - Uniform provisions concerning the approval of replacement silencing systems (Revision 1, incorporating the 01 series of amendments to the Regulation), or (Revision 2, incorporating the 02 series of amendments to the Regulation);</p> <p>(ii) EC Council Directive 70/157/EEC of 6 February 1970 as last amended by Commission Directive 96/20/EC of 27 March 1996;</p> <p>(iii) EU 540/2014 of the European Parliament and of the Council of 16 April 2014 on the sound level of motor vehicles and of replacement silencing systems, and amending Directive 2007/46/EC and repealing Directive 70/157/EEC; or</p> <p>(iv) Automobile Type Approval Handbook for Japanese Certification (Blue Book) 11-3-112 Attachment 112: Technical Standard for Aftermarket Silencers</p> |
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3. In this Schedule —

“exhaust system” has the meaning given by rule 106 of the Road Traffic (Motor Vehicles, Construction and Use) Rules (R 9);

“reference value”, in relation to a motor vehicle, means the stationary noise level specified in the documents accepted by the Registrar of Vehicles for the purpose of the grant of batch type-approval, type-approval or modified type-approval (as the case may be) under rule 3D of the Road Traffic (Motor Vehicles, Registration and Licensing) Rules in respect of that motor vehicle or model of motor vehicle, as the case may be.”.

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**Amendment of Seventh Schedule****5. In the Seventh Schedule to the principal Regulations —**

- (a) in paragraph 1, replace “Motor vehicles of” with “A motor vehicle of any of”;
- (b) in paragraph 1, replace “in this Schedule” with “against that class of motor vehicle”;
- (c) in paragraph 1(a), in the second column, replace “106” with —

“The higher of the following:

- (i) 106;
- (ii) +5 above the reference value for the motor vehicle”;

- (d) in paragraph 1(b), in the second column, replace “105” with —

“The higher of the following:

- (i) 105;
- (ii) +5 above the reference value for the motor vehicle”;

- (e) in paragraph 1(c), in the second column, replace “109” with —

“The higher of the following:

- (i) 109;
- (ii) +5 above the reference value for the motor vehicle”;

- (f) in paragraph 1(d), in the second column, replace “113” with —

“The higher of the following:

- (i) 113;
- (ii) +5 above the reference value for the motor vehicle”;

(g) in paragraph 1(e), in the second column, replace “115.” with —

“The higher of the following:

- (i) 115;
  - (ii) +5 above the reference value for the motor vehicle”;
- and

(h) replace paragraph 2 with —

“2. In addition, a motor vehicle of any of the following classes, for which a major modification mentioned in rule 12B(2) of the Road Traffic (Motor Vehicles, Registration and Licensing) Rules is made involving any modification or alteration of the exhaust system of the motor vehicle, must conform to any of the standards for exhaust noise emission specified against that class of motor vehicle:

<i>First column</i>	<i>Second column</i>
<i>Class of vehicle</i>	<i>Standard for exhaust noise emission</i>
(a) Two-wheeled or three-wheeled motor cycle (with or without a side car) or two-wheeled or three-wheeled scooter (with or without a side car)	(i) Regulation No. 92 of the Economic Commission for Europe of the United Nations (UN/ECE) - Uniform provisions concerning the approval of non-original replacement exhaust silencing systems (RESS) for motorcycles, mopeds and three-wheeled vehicles (Revision 1 - Amendment 2, incorporating the 01 series of amendments to the Regulation);  (ii) Directive 97/24/EC of the European Parliament and of the Council of 17 June 1997 on certain components and characteristics of two or three-wheel motor vehicles;

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- (iii) Regulation (EU) 168/2013 of the European Parliament and of the Council of 15 January 2013 on the approval and market surveillance of two- or three-wheel vehicles and quadricycles; or
- (iv) Automobile Type Approval Handbook for Japanese Certification (Blue Book) 11-3-112 Attachment 112: Technical Standard for Aftermarket Silencers
- (b) Motor car, taxi or station wagon (whether for passengers only or for goods and passengers), or goods vehicle or bus
- (i) Regulation No. 59 of the Economic Commission for Europe of the United Nations (UN/ECE) - Uniform provisions concerning the approval of replacement silencing systems (Revision 1, incorporating the 01 series of amendments to the Regulation), or (Revision 2, incorporating the 02 series of amendments to the Regulation);
- (ii) EC Council Directive 70/157/EEC of 6 February 1970 as last amended by Commission Directive 96/20/EC of 27 March 1996;
- (iii) EU 540/2014 of the European Parliament and of the Council of 16 April 2014 on the sound level of motor vehicles and of replacement silencing systems, and amending Directive 2007/46/EC and repealing Directive 70/157/EEC; or

- (iv) Automobile Type Approval Handbook for Japanese Certification (Blue Book) 11-3-112 Attachment 112: Technical Standard for Aftermarket Silencers

3. In this Schedule —

“exhaust system” has the meaning given by rule 106 of the Road Traffic (Motor Vehicles, Construction and Use) Rules;

“light goods vehicle” means —

- (a) a goods vehicle the maximum laden weight of which does not exceed 3 metric tons and which is registered in Singapore using a certificate of entitlement issued before 1 July 1999; or
- (b) a goods vehicle the maximum laden weight of which does not exceed 3.5 metric tons and which is registered in Singapore using a certificate of entitlement issued on or after 1 July 1999,

but does not include any construction equipment, engineering plant, recovery vehicle, vehicle used as a mobile canteen or mobile bank and any vehicle used for a specific purpose such as a horse float;

“reference value”, in relation to a motor vehicle, means the stationary noise level specified in the documents accepted by the Registrar of Vehicles for the purpose of the grant of batch type-approval, type-approval or modified type-approval (as the case may be) under rule 3D of the Road Traffic (Motor Vehicles, Registration and Licensing) Rules in respect of that motor vehicle or model of motor vehicle, as the case may be.”.

*[G.N. Nos. S 625/2008; S 564/2010; S 301/2012; S 765/2013; S 766/2013; S 199/2014; S 609/2014; S 372/2016; S 26/2017; S 396/2017; S 480/2017; S 781/2017; S 189/2018; S 420/2018; S 877/2018; S 57/2019; S 322/2019; S 1006/2021]*



Made on 30 March 2022.

LEE CHUAN SENG  
*Chairperson,*  
*National Environment Agency,*  
*Singapore.*

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(To be presented to Parliament under section 77(3) of the Environmental Protection and Management Act 1999).