

本署檔號 ( ) in EP151/S4/2

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Environmental Protection Department

33/F, Revenue Tower,  
5 Gloucester Road,  
Wan Chai, Hong Kong.



環境保護署

香港

灣仔告士打道五號  
稅務大樓三十三樓

11 November 2005

Dear Sir,

**Expression of Interest for  
Seeking Approval of Particulate Reduction Devices for non-long idling pre-Euro Diesel  
Vehicles of Permitted Gross Vehicle Weight over Four Tonnes**

Through a government subsidy programme that was completed last year, we assisted about 34,000 diesel vehicles of weight over four tonnes that could not meet Euro I emission standards (pre-Euro diesel heavy vehicles) to be retrofitted with particulate reduction devices, except those that need to run their engines for operating their on-board equipment when idling (i.e. long idling vehicles). The retrofitted vehicles represent about 97% of its fleet. We are now preparing a legislative proposal requiring all pre-Euro diesel heavy vehicles (except the long idling ones) to be fitted with approved particulate reduction devices for licence renewal.

In the proposal, we shall approve devices in addition to those selected for the government subsidy programme if they meet our requirements for the devices. The requirements for an approved device are given in **Annex I**. While the legislative proposal has yet to be vetted by the Legislative Council, we would like to have a list of approved devices ready when our proposal comes into force. This will provide concerned vehicle owners with more choices.

Thus, we are inviting suppliers who are interested in seeking our approval for their particulate reduction devices and supplying them to Hong Kong to register with us. If you are

are interested to do so, please complete the registration form for your device and submit the required supporting documents to us for our assessment.

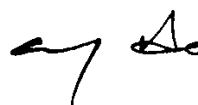
If your device meets the requirements for an approved particulate reduction device, we shall contact you to follow up with your application for the approval when our proposal is accepted by the Legislative Council. So, this registration arrangement can help bring your device to the attention of concerned vehicle owners much earlier than that you submit the approval application after the enactment of our proposal. If your device cannot meet our requirements, we shall also inform you of our findings.

You are not required to pay any fee for this registration. However, you have to bear all the costs related to your submissions for the registration and the subsequent approval application irrespective of the outcome of our assessment or the legislative process.

I have to emphasize that our legislation proposal has yet to be vetted by the Legislative Council. There is a possibility that we cannot get the Council's endorsement for the proposal in this form or any other forms. Should that happen, we shall not be responsible for any losses or costs in connection with your afore-said registration with us should you decide to do so. Nor shall we be responsible for any claims against damages from you or any other parties related to your registration.

If you want more details of the registration process, please refer to **Annex II** or contact us at Tel No. +852 2824 0022 or Fax No. +852 2877 8690.

Yours sincerely,



( Kong HA )  
for Director of Environmental Protection

如需中文譯本，請與我們聯絡(電話號碼：(852)2824 0022，傳真號碼：(852)2877 8690)。

**Requirements for an Approved Particulate Reduction Device for non-long idling** <sup>(Note 1)</sup>  
**Pre-Euro Diesel Vehicles over Four Tonnes**

*(A) Non-long idling pre-Euro diesel vehicles over 4 tonnes and Using Diesel of Sulphur Content not more than 0.005% (by Weight)*

**Performance Specifications**

- I.1 The Particulate Reduction Device shall be designed based on sound and proven scientific principle.
- I.2 The Particulate Reduction Device must achieve an initial particulate reduction (on a brake specific mass basis, or distance specific mass basis, depending upon the type of test being conducted) of no less than 35%. The particulate emissions reduction must be achieved under the transient test. The test fuel for all tests should never contain sulphur less than 0.005% (by weight).
- I.3 The Particulate Reduction Device shall not result in an increase in exhaust backpressure of more than 25 mm Hg. Furthermore, the backpressure should not exceed the upper limit given by the engine manufacturer.
- I.4 There should be no increase in carbon monoxide (CO), total hydrocarbons (THC), oxides of nitrogen (NO<sub>x</sub>) or other harmful emissions when testing with the device compared to testing without the device beyond test-to-test variability that is accepted internationally.
- I.5 The Vehicle shall not cause any violation of the roadworthiness requirements under the Road Traffic Ordinance, Cap. 374 of the Government of the Hong Kong Special Administrative Region as a result of the installation of the Particulate Reduction Device.
- I.6 The Particulate Reduction Device shall be an add-on device. The Particulate Reduction Device must be designed for retrofitting in diesel vehicles without any engine modifications or engine setting changes such as timing adjustment.
- I.7 The Particulate Reduction Device must be maintenance free and service free over its full warranty period. No addition of additives or chemicals beyond those installed with the device will be allowed.

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Note 1: Long idling vehicles are diesel vehicles registered with one of the following body types: aerial platform, concrete mixer, gully emptier, lorry crane, mobile crane, mobile concrete pump, and pressure tanker.

- I.8 The Particulate Reduction Device shall be suitable for local use.
- I.9 The Particulate Reduction Device shall be designed and constructed to allow smoke measurement be made without dismantling it.
- I.10 The applicant shall provide user manuals for maintaining and cleaning of the Particulate Reduction Device. The user manual shall be in Chinese as well as English.

***(B) Non-long idling pre-Euro diesel vehicles over 4 tonnes and Using Diesel of Sulphur Content up to 0.2% (by Weight)***

• **Performance Specifications**

- I.11 The Particulate Reduction Device shall be designed based on sound and proven scientific principle.
- I.12 The Particulate Reduction Device must achieve an initial particulate reduction (on a brake specific mass basis, or distance specific mass basis, depending upon the type of test being conducted) of no less than 25%. The particulate emissions reduction must be achieved under the transient test. The test fuel for all tests should never contain sulphur less than 0.2% (by weight).
- I.13 The Particulate Reduction Device shall not result in an increase in exhaust backpressure of more than 25 mm Hg. Furthermore, the backpressure should not exceed the upper limit given by the engine manufacturer.
- I.14 There should be no increase in carbon monoxide (CO), total hydrocarbons (THC), oxides of nitrogen (NO<sub>x</sub>) or other harmful emissions when testing with the device compared to testing without the device beyond test-to-test variability that is accepted internationally.
- I.15 The Vehicle shall not cause any violation of the roadworthiness requirements under the Road Traffic Ordinance, Cap. 374 of the Government of the Hong Kong Special Administrative Region as a result of the installation of the Particulate Reduction Device.
- I.16 The Particulate Reduction Device shall be an add-on device. The Particulate Reduction Device must be designed for retrofitting in diesel vehicles without any engine modifications or engine setting changes such as timing adjustment.

- I.17 The Particulate Reduction Device must be maintenance free and service free over its full warranty period. No addition of additives or chemicals beyond those installed with the device will be allowed.
- I.18 The Particulate Reduction Device shall be suitable for local use and with cross boundary operation.
- I.19 The Particulate Reduction Device shall be designed and constructed to allow smoke measurement be made without dismantling it.
- I.20 The applicant shall provide user manuals for maintaining and cleaning of the Particulate Reduction Device. The user manual shall be in Chinese as well as English.

- End -



**Expression of Interest for  
Seeking Approval of Particulate Reduction Devices for non-long idling Pre-Euro  
Diesel Vehicles of Permitted Gross Vehicle Weight over Four Tonnes**

**The Registration Process**

1. Interested suppliers may express interest for seeking approval of particulate reduction devices for non-long idling pre-Euro diesel vehicles of permitted gross vehicle weight over four tonnes by registering with the Director of Environmental Protection.
2. Applicants should read the ***“Provisional Guidelines for the Application for Approval for a Particulate Reduction Device for non-long idling pre-Euro diesel vehicles over 4 tonnes”*** before making the registration. The Provisional Guidelines provide the requirements for an approved device, the list of required documents for the registration and the assessment procedure.
3. For the registration, the applicant should complete the Registration Form entitled ***“Expression of Interest for Seeking Approval for a Particulate Reduction Device for non-long idling pre-Euro Diesel Vehicles of Permitted Gross Vehicle Weight over Four Tonnes”***.
4. Copies of the Provisional Guidelines and Registration Form can be obtained from the Environmental Protection Department, 33/F Revenue Tower, No. 5 Gloucester Road, Wan Chai, Hong Kong (Telephone no.: (852) 2824 0022, Facsimile no.: (852) 2877 8690):

Opening Hours:

Monday to Friday

(AM) 9:00 to 12:15

(PM) 1:30 to 5:00

Saturday

(AM) 9:00 to 11:30

or downloaded from the Department's website at <http://www.epd.gov.hk/epd>.

5. The Registration Form must be accompanied with 7 sets of the supporting documents as listed in **Appendix B** of the **Provisional Guidelines** as mentioned in Item 2 above for us to assess its compliance with the requirements for an approved particulate reduction device.
6. The afore-mentioned assessment will not make unless the submission is complete.
7. Please note that the supporting documents as listed in **Appendix B** of the **Provisional Guidelines** should be prepared by a qualified engineer. “Qualified engineer” means a registered professional engineer in the building services, gas, chemical, environmental, marine and naval architecture of mechanical disciplines under the Engineers Registration Ordinance.
8. The device must also comply with the roadworthiness and any other requirements of the Road Transport Ordinance, Cap. 374.
9. The completed registration form and the required documents should reach the Environmental Protection Department on or before the last working day of each month such that we shall be able to inform you of our findings within three months.
10. Once our legislative proposal comes into force, the Director of Environmental Protection shall contact those successful applicants to formalize their application in accordance to the requirements of the Regulation.
11. There is no fee for the registration.

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