



ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ Karnataka State Pollution Control Board

"ಪರಿಸರ ಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ಪಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ
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No. KSPCB/SEO-Infra/DG-Retrofitting/2021-22/ 955

Date: 25 MAY 2023

NOTIFICATION

Sub.: Mandatory Retrofitting of Emission Control Devices (RECD)/Equipment to DG sets with Capacity of 125 KVA and above in the State of Karnataka-Reg.

Preamble:

The Ministry of Environment, Forest and Climate Change(MoEFCC) launched National Clean Air Programme(NCAP) in January 2019 with an aim to improve air quality in 131 cities(non-attainment Cities and million plus cities) in 24 States and UTs by engaging all stakeholders. Further, the Hon'ble National Green Tribunal (NGT) in the matter of OA.681/2018, dated:6.8.2019 issued an order for the remedial measures to be adopted to enforce the Ambient Air Quality Standards with reference to the Air (Prevention and Control of Pollution) Act, 1981 and the Environment (Protection) Act, 1986 in cities classified as 'Non-Attainment Cities' (NACs) based on monitoring of the Ambient Air Quality.

In exercise of powers under conferred under Section 19(1) of the Air (Prevention & Control of Pollution) Act 1981, the State Government has declared the entire **State of Karnataka** as **Air pollution control Area**. In line with the same, the Board had issued an order No.KSPCB/SEO-INFRA/DG-RETROFITTING/2021-22/2887, Dtd.17/09/2021 regarding mandatory retrofitting of emission control devices/equipment in DG sets with capacity of 125 KVA and above in the State of Karnataka.

The Hon'ble National Green Tribunal (NGT) had directed for reduction of Particulate Matters (PM) emitted by in-use diesel operated power generating sets. The Hon'ble National Green Tribunal (NGT) directed Central Pollution Control Board (Herein after referred to as "CPCB") to develop & evolve the standards and norms for use of Retrofitted Emission Control Equipment or Devices (RECDs).

Accordingly, CPCB formulated procedure for certification of the RECD namely “**System and procedures for emission compliance testing of RECD for in-use diesel power generating set engines up to gross mechanical power of 800 KW**” on 1.2.2022. This is with the objective for reduction of Particulate Matters (PM) by using Retrofitted Emission Control Devices (RECD) for in -use diesel operated internal combustion engines upto 800 KW or 1000 KVA. The details of compliance and testing procedures developed by CPCB is available in their web site and the same may be referred to.

The CPCB for the purpose of type approval and conformity of production verification compliance process, may revise the procedure from time to time. The currently the approved 04 test agencies for Certificate of type approval are as follows;

1. **Automotive Research Association of India (ARAI Pune).**
2. **International Centre for Automotive Testing (ICAT, Manesar)**
3. **Indian Institute of Petroleum (IIP, Dehradun)**
4. **Vehicle Research Development Establishment (VRDE, Ahmad Nagar)**

Hence, all Industries, Establishments, Projects, Buildings, Utilities, Airports, Railway Stations or any other places operating DG sets of capacity 125 KVA and above, within the jurisdiction of the State of Karnataka, are directed to:

- 1) Retrofit all operational DG sets of capacity with an Emission Control Device/Equipment. For diesel power generating set engines upto gross mechanical power 800 kW, the emission control device has to be type approved as per CPCB system and procedure for emission compliance Testing of Retro-fit Emission control Devices (RECD).
- 2) For diesel power generating set engines above gross mechanical power of 800 kW or 1000KVA, the emission control device has to be tested for minimum 70% reduction in Carbon Monoxide, Particulate Matter and Hydrocarbon emissions. The Emission Control Device has to be tested on equivalent KVA rating of the DG set by one of the 04 approved test agencies mentioned supra. CPCB has formulated procedures for testing in terms of 5-Mode Constant Speed Cycle (*As per D2 Steady State discrete mode test cycle specified in ISO-8178-Part 4*). The equivalent KVA is considered if either the rated power or swept volume of the test engine is in the range of $\pm 25\%$ of the rated power or swept volume of the engine for which the device is being used.

OR

- 3) Shift to gas-based generators by deploying new gas-based generators or retrofitting the existing DG sets for partial gas usage.

Further, all the Industries, Establishments, Projects, Buildings, Utilities, Airports, Railway Stations or any other places operating DG sets of capacity 125 KVA and above, shall ensure that Retro-fitting of Emission Control Devices vendor is in accordance with the CPCBs document Dtd.01/02/2022 mentioned in Para(3) of this notification.

This order supersedes all other previously issued orders and same shall be complied within **six months** from the date of issue of this Notification, failing which the Board is contemplated to initiate action under the relevant provisions the Air (Prevention and Control of Pollution) Act, 1981.


25/05/2023
CHAIRMAN
Karnataka State Pollution Control Board


To

All Concerned Industries, Establishments & Organizations.

