

# GOA STATE POLLUTION CONTROL BOARD

## गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015, ISO 45001:2018 Certified Board)

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### CIRCULAR

Sub: Retrofitting of emission control devices/equipment in DG Sets with capacity of 125 KVA upto 1000 KVA in State of Goa - reg.

Ref: 1. 18/20-PCB/Vol.XII/Tech/17731 dated 06/01/2021

2. 18/20-PCB/Vol.XII/Tech/4609 dated 23/06/2021

3. 1/8/20-PCB/Vol.XII/Tech/64 dated 04/04/2022

Whereas, the Government of Goa, Department of Science, Technology & Environment in Official Gazette Series 1 No 40 dated 02/01/1992, had extended the entire area within the State of Goa as Air Pollution Control Area for the purpose of Air (Prevention and Control of Pollution) Act, 1981 as amended.

Whereas, the emission including **Particulate Matter** due to operation of Gen Sets have also been identified as one of the sources of air pollution.

Whereas, the Government of India, MoEF&CC has launched the **National Clean Air Programme** (NCAP) for the prevention, control and abatement of air pollution level in the Country at an urban and regional level. The Government of India, recognizes major sources of air pollution such as vehicles, DG sets, construction dust etc. As per National Clean Air Programme (NCAP), Government of India, Diesel Generator sets as a major source of air pollution in Indian cities and states.

Whereas, there is a plan for national level target of **30%** reduction of **PM<sub>2.5</sub>** and **PM<sub>10</sub>** concentration in the ambient air under the National Clean Air Programme (NCAP), Govt, of India, wherein the Hon'ble NGT vide order dated 06/08/2019 has observed that the timeline to reduce the air pollution by 30% needs to be reduced and the target of reduction needs to be increased, having regard to adverse effect on public health and in view of constitutional mandate of fundamental right to breathe clean air. It further states, that the air pollution caused by DG sets needs to be a part of the action plans, which may, if necessary, require retrofitting of **Emission Control Devices / Equipment** on generators already in use" and

Now, therefore, with the above background, and in exercise of powers vested with the Board under **Section 17 (1) J read with section 31 (A) of Air (Prevention and Control of Pollution) Act, 1981 and section. 5 of the Environment (Protection) Act 1986, all the industries and the establishments operating DG sets of capacity 125 KVA and above within the jurisdiction of the state of Goa, are hereby directed to:**

i) Retrofit all operational DG sets of capacity **125 KVA** upto 1000 KVA with an **Emission Control Device** for diesel power generating set engines upto gross mechanical power 800 KW(1000 KVA), the emission control device has to be type approved as per CPCB system & procedure for emission compliance testing of retrofit emission control devices (RECD) for equivalent KVA rating by one of the four Central Pollution Control Board, Govt. of India, recognized /approved laboratories as given below:

- a. Automotive Research Association of India, Pune (Maharashtra)
- b. International Centre for Automotive Technology, Manesar (Haryana)
- c. Indian Institute of Petroleum, Dehradun (Uttarakhand);or
- d. Vehicle Research Development Establishment, Ahmednagar (Maharashtra)

ii) For DG set above 1000 KVA, the retrofitting emission control device /equipment should be tested by one of the four CPCB approved labs over ISO 8178 5 mode D2 cycle for equivalent KVA rating for reduction of particular

matter, carbon monoxide and hydrocarbons by more than 70% equivalent engine should be 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.

- iii) Shifting to gas based generators by employing new gas based generators or retrofitting the existing DG sets for partial gas usage.
- iv) It is therefore, enforced upon all the Users and the establishments within the jurisdiction of the State of Goa operating DG sets of **125 KVA and above** to comply with the above said directions in the stipulated time period, failing which action as warranted under the provisions of Environment (Protection) Act, 1986 and Air (Prevention and Control of Pollution) Act, 1981 shall be initiated.

This is to be complied by **30/06/2023** by all stake holders

The receipt of the Circular shall be acknowledged within fifteen days of the receipt of the direction.

This Circular is issued in suppression of the earlier Circular issued by the Board vide Order No., 18/20-PCB/Vol.XII/Tech/17731 dated 06/01/2021 and 18/20-PCB/Vol.XII/Tech/4609 dated 23/06/2021 and 1/8/20-PCB/Vol.XII/Tech/64 dated 04/04/2022.



**(Shri. Mahesh Patil)**  
**Chairman**

**Goa State Pollution Control Board**