

# GOA STATE POLLUTION CONTROL BOARD

## गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015. OHSAS 18001:2007 Certified Board)

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### CIRCULAR

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

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** and above with an **Emission Control Device I Equipment** having a minimum specified **Particulate Matter** capturing efficiency of at least 70% in 5 mode D2 cycle. The Emission Control Device/Equipment must be tested as per ISO-8178-5 (Reciprocating Internal Combustion Engines-Exhaust Emission measurement Part-5: Test Fuels) mode D2 cycle for equivalent KVA rating by one of the five 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 Oil Corporation, Research and Development Centre, Faridabad (Haryana)
- d. Indian Institute of Petroleum, Dehradun (Uttarakhand);or
- e. Vehicle Research Development Establishment, Ahmednagar (Maharashtra)

**(or)**

II) Shifting to gas based generators by employing new gas based generators or retrofitting the existing DG sets for partial gas usage.

This is to be complied with within a period of 120 days from the date of issuance of this order by all stake holders.

It is therefore, enforced upon all the Industries 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.

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

  
(Shri. Ganesh Budhu Shetgaonkar)  
Chairman  
Goa State Pollution Control Board