☎: General: 0471- 2312910, 2318153, 2318154, 2318155 Chairman: 2318150 Member Secretary: 2318151
e-mail: chn.kspcb@gov.in; ms.kspcb@gov.in FAX: 2318152 web: kspcb.kerala.gov.in

KERALA STATE POLLUTION CONTROL BOARD
കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്
Pattom P.O., Thiruvananthapuram – 695 004
പട്ടം പി.ഒ., തിരുവനന്തപുരം – 695 004

KSPCB/517/2023/ SEE-3 Date: 15/05/2023

ORDER

Subject : Kerala PCB - Retrofitting of Emission Control Devices/Equipment in DG sets with Capacity of 500 KVA and above in the State of Kerala.

Whereas, the Government of Kerala, Environment Department vide notification dated 16/11/1993, had declared the entire area within the State of Kerala as Air Pollution Control Area for the purpose of Air (Prevention and Control of Pollution) Act, 1981 as amended.

Whereas, action plan for improving ambient air quality in the Non Attainment cities needs to be prepared as per the directions date: 08-10-2018 of Hon'ble NGT in the case titled as *"NCAP with multiple timelines to clean air in 102 cities to be released around August 15" with Dr. Gautam* Ghosh applicant(s) V/s of West Bengal & Ors. in O.A. 681 of 2018.

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 lauched the National Clean Air Programme (NCAP) for the prevention, control and abetment 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 $_{2.5}$ and PM_{10} 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.

Whereas, 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"

Whereas, the Board has issued circular no. PCB/HO/SEE-3/TECH/82/2019 dated 09.12.2020 (with erratum of even number dated 26.03.2021) mandating retrofit of DG sets of and above the capacity of 500KVA with emission control devices tested and type approved by any one of the CPCB recognized/approved laboratories.

Whereas, DG sets of capacities of and above 500KVA were only mandated in circular no. PCB/HO/SEE-3/TECH/82/2019 dated 09.12.2020 (with erratum of even number dated 26.03.2021) due to the non-availability of type approved agencies for retro fitment.

And whereas, now adequate number of type approved agencies are available for retrofit of emission control device (RECD) in DG sets.

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 Kerala, are hereby directed to:

I) retrofit all operational DG sets of capacity 125 KVA and above with an Emission Control Device / Equipment having a minimum specified Particulate Matter capturing efficiency of at least 70% in 5 mode D2 cycle for equivalent KVA rating; the laboratories recognized/ approved by the Central Pollution Control Board, Govt of India, for the purpose being the following:

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)

DG sets with capacity greater than 800KW shall comply with norm specified in page 18 & 19 of SOP for High Rise & Other Buildings dated 15.03.2023 of the Board.

(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, enjoined upon all the industries and the establishments within the jurisdiction of the State of Kerala 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.

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CHAIRMAN

To

1. The Chief Environmental Engineer,
   Regional Office, Trivandrum/Ernakulam/Kozhikode.
2. The Senior Environmental Engineer,
   Environmental Surveillance Centre, Eloor.
3. The Environmental Engineer, District Office,
   Thiruvananthapuram, Kollam, Pathanamthitta, Alapuzha, Idukki, Kottayam, Ernakulam-1, Ernakulam-2, Thrissur, Palakkad, Malappuram, Kozhikode, Kannur, Wayanad, Kasargod.

Copy to:-

1) All Technical Staff in HO
2) IT Cell (for uploading in the website)
3) C.A to CHN & MS

Forwarded by order

Alexander George
Senior Environmental Engineer-3