

**Gujarat Pollution Control Board
Head Office, "Paryavaran Bhavan"
Sector 10-A, Gandhinagar.**

CIRCULAR

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

Ref: (1) Honourable NGT Directions in OA 681/2018 dated 06/08/2019
(2) CPCB procedure for certification of the RECD dated 01.02.2022 namely "System and procedures for emission compliance testing of RECD for diesel power generating set engines up to gross mechanical power of 800 KW"
(3) GPCB circular No. GPCB/Air Action – 03 (1)(E)/599145 dated 27.08.2021

Whereas, the Particulate Matter emissions due to operation of Gen-Sets have also been identified as one of the major sources of emissions in the National Clean Air Programme and by the Hon'ble National Green Tribunal in the original Application No. 681/2018.

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, recognized 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 are found to be one of the major source of air pollution in Indian cities and states.

Whereas, 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 plan, which may, if necessary, require retrofitting of **Emission Control Devices / Equipment** on generators already in use. There is a plan for national level target of 40% reduction of PM_{2.5} and PM₁₀ concentration in the ambient air or achievement of national standards (60 µg/m³) under the National Clean Air Programme (NCAP) of Govt of India by 2025 - 2026.

Whereas, GPCB had issued circular No. GPCB/Air Action – 03 (1)(E)/599145 dated 27.08.2021 regarding Retrofitting of emission control devices/equipment in DG sets with capacity of 125 KVA and above in the state of Gujarat.

Whereas, CPCB has notified the procedure for certification of the RECD dated 01.02.2022 namely "System and procedures for emission compliance testing of RECD for diesel power generating set engines up to gross mechanical power of 800 KW". 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 (1000 KVA). The details of compliance and testing procedures developed by CPCB is available in their website and the same may be referred to.

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

1. Automotive Research Association of India, Pune (Maharashtra)
2. International Centre for Automotive Technology, Manesar (Haryana)
3. Indian Institute Petroleum, Dehradun (Uttarakhand)
4. Vehicle Research Development Establishment, Ahmednagar (Maharashtra)

Whereas, State Action Plan for Gujarat State on Clean Air is prepared and provision of retrofitting emission control devices/equipment in DG set is also included as one of the activities.

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, 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 Gujarat, are hereby directed in suppression to the earlier issued circular mentioned under reference no. (3) above to:

1. The engines/generating sets manufactured & installed before 1.7.2004 or the engines which are not complying either Stage-I and/or Stage-II emission limits, such engines are to be scrapped. No one shall sell/use/run the above engines/generating sets.
2. Retrofit all operational DG sets of capacity 125 KVA and above shall establish the compliance of minimum 70% reduction of Particulate Matter by using the retrofitted with an emission control device/equipment. For Diesel Power Generating Set Engines Up to Gross Mechanical Power 800 kW, the emission control device must be type approved as per CPCB System and Procedure for Emission Compliance Testing of Retro-fit Emission Control Devices (RECD).

For Diesel power generating set engines above Gross Mechanical Power greater than 800 KW (1000 KVA), RECD should be installed demonstrating minimum 70% reduction in particulate matter and Carbon Monoxide (CO) from existing levels measured through stack emission tests as per GSR 489(E) dated 9th July, 2002 Serial no. 96 under the Environment Protection Act, 1986 and thereby Diesel power generating set engines shall demonstrate 70% reduction in existing levels but in no case the particulate emission level shall be more than the limit as prescribed under applicable notification published by CPCB. The emission control device has to be tested by one of the 4 CPCB recognised labs over ISO-8178 5 mode D2 cycle.

OR

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 within a period of 180 days from the date of issuance of this order by all stakeholders and shall submit the time bound action plan within 60 days.

It is therefore, enforced upon all the industries and 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 Gujarat 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.

D. M. Thaker
25/10/2023

(D. M. Thaker)
Member Secretary

No: GPCB/ Air Action Plan-09/ 757115

Date: 26 OCT 2023

To,

All Industries and the establishments, projects, buildings, utilities, airports, railway stations or any other places operating DG sets of capacity 125 KVA and above.

Copy To :

1. The Regional Officer,

Ahmedabad (City), Ahmedabad (East), Ahmedabad (Rural), Anand, Ankleshwar, Bharuch, Bhavnagar, Godhra, Gandhinagar, Himmatnagar, Jamnagar, Junagadh, Kutch (East), Mehsana, Palanpur, Rajkot, Surat, Surendranagar, Vadodara, Vapi, Jetpur, Kutch (West), Morbi, Nadiad, Navsari, Porbandar, Sarigam.

2. The Unit Head,

Ahmedabad (City), Ahmedabad (East), Ahmedabad (Rural), Anand, Ankleshwar, Bharuch, Bhavnagar, Godhra, Gandhinagar, Himmatnagar, Jamnagar, Junagadh, Kutch (East), Mehsana, Palanpur, Rajkot, Surat, Surendranagar, Vadodara, Vapi, Jetpur, Kutch (West), Morbi, Nadiad, Navsari, Porbandar, Sarigam.

3. Unit Head - IT cell..... For upload this office order on GPCB and XPN website.

4. Unit Head – Legal Branch..... For information.

5. Selected File.