



TELANGANA POLLUTION CONTROL BOARD

Paryavarana Bhavan, A-3, Industrial Estate, Sanathnagar,
Hyderabad – 500018, Phone: 040 – 23887500

Circular No. TGPCB/NCAP/AQMC/DG sets/ 3361

Dated: 20-03-2025

Circular

Sub: TGPCB – Regulation of Emissions from DG sets operated in the state to improve the air quality – installing Retrofitted Emission Control Device (RECD) or shifting to gas based generator – Directions Issued – Reg.

- Ref:**
1. Para No. 7.5.3 under action point at serial no 6 of NCAP guidelines of MoEF&CC, Gol.
 2. Hon'ble NGT orders in OA NO 681 of 2018 dated: 08.10.2018
 3. EFS&T GO.MS. No. 182 dated: 20.11.2018 constituting AQMC
 4. Hon'ble NGT Orders in OA No681 of 2018 dated 06/08/2019
 5. Emission inventory, Source Apportionment and Carrying Capacity study carried out by TGPCB with IIT, Kanpur for GHMC area
 6. CPCB Lr. No. EQ-11099/8/2021-AQM-HO-CPCB-HO-Part (5), dt:22.03.24.
 7. Minutes of the meeting of AQMC held on 23.10.2024.
 8. Approval of the State Steering Committee for the State Action Plan of Telangana for Clean Air.

Whereas, the Government of India, Ministry of Environment Forest & Climate Change through reference 1st cited has launched the **National Clean Air Programme (NCAP)** for the prevention, control and abatement of air pollution level in the Country. The major sources of air pollution and abatement measure for industrial emission, vehicular emissions, DG sets, construction & demolition dust, etc are indicated to achieve a targeted reduction of **30 – 40 % of PM10** concentration in the ambient air by 2025-2026.

Whereas, Government of Telangana in compliance to the Hon'ble NGT order (reference 2nd cited above) has constituted Air Quality Monitoring Committee through reference 3rd cited for preparing an action plan to improve the air quality and reviewing its implementation in the non-attainment cities.

Whereas, the Hon'ble NGT through reference 4th cited having regard to adverse effect on public health and in view of constitutional mandate of fundamental right to breathe clean air has stressed upon to reduce the time line to achieving the targeted reduction and noted that the air pollution caused by DG Sets needs to be part of the action plans which may, if necessary, require retrofitting of emission-control devices on generators already in use. CPCB may consider this aspect.

The NCAP itself provides following action points:

For DG Sets already operational, ensure usage of either of the two options:

- (a) use of retrofitted emission control equipment having a minimum specified PM capturing efficiency of at least 70%, type approved by one of the 5 CPCB recognized labs;

or

- (b) shifting to gas-based generators by employing new gas-based generators or retrofitting the existing DG sets for partial gas usage

Thus, DG Sets should also be covered by the action plans for all the States/UTs.

Whereas, TGPCB through reference 5th cited carried out the "Emission inventory, Source Apportionment and Carrying Capacity" carried out in GHMC area and it is revealed that PM2.5 consist of Diesel engine exhaust and also Poly aromatic hydrocarbons which are carcinogenic.

Whereas, CPCB vide reference 6th cited above, has issued a letter for Control of Emissions from in-use DG sets by installing Retrofit of Emission Control Device (RECD) or shifting to gas based fuel for controlling the emissions.

Whereas, now adequate number of type approved agencies are available for Retrofit of Emission Control Device (RECD) in DG sets, issued vide CPCB notification on "List of manufacturers certified for RECDs applicable to Diesel Genset Engines (Up to 800 kW) for different capacity ranges as of 15-03.2024". The list of certified vendors for different capacities can be obtained from CPCB website: <https://cpcb.nic.in/genset-notifications/>

Whereas, the AQMC through reference 7th cited above after examining the above facts, has instructed TGPCB "To issue a circular for Retrofitment of emission control devices to the DG sets in line with the CPCB guidelines".

Now, therefore, in the interest of the public health 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 operators of DG sets with capacity of more than 61 KW within the jurisdiction of the Telangana are hereby directed for controlling the emissions from the DG sets by installing the Retro-fitment of Emission Control Device (RECD) to all the DG sets of capacity 61 KW and above with a proven efficiency of 70% capture of particulate matter from the Certified agencies as per the CPCB guidelines:

- a) Use of certified RECD from CPCB approved manufacturers with 70% efficiency for capture of Particulate matter for in use DG sets of 61 KW to 800 KW capacity which are older than five years from date of manufacturing and up to its useful life (i.e., 15 years from the date of manufacturing or 50,000 hours of operation, whichever is earlier)
- or
- b) Shifting to gas-based generators
- or
- c) Shifting to gensets meeting emission norms as per GSR804E dated 3.11.2022.
- d) Adopt any suitable Air Pollution Control Devices strictly subject to compliance of emission standards, notified vide GSR 489(E) dated 09.07 2002 for DG sets of more than 800 KW.

Further, to ensure the functionality and effectiveness of the ECD, a real-time monitoring system with a data transfer frequency of every 15 minutes is mandated and connected to TGPCB server.

This notification is to be complied within 1 year from the date of issuance of this order by all DG set users of specified capacity above and shall submit the time bound action plan within 60 days, failing which action will be initiated as per the relevant provision of Air (Prevention and Control of Pollution) Act, 1981 and section 5 of the Environment (Protection) Act 1986, including levying of environmental compensation.

Sd/-

Member Secretary

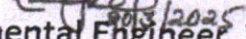
To

1. All units in Telangana using DG sets of capacity 61 KW or More
2. All the Divisional Heads, ZO's/RO's of TGPCB for implementation.

Copy submitted to

1. The Principal Secretary, GoT, EFS&T, Dr. B.R.Ambedkar secretariat, Hyd
2. The Principal Secretary, GoT, MA&UD, Dr. B.R.Ambedkar secretariat, Hyderabad, Telangana for including necessary clauses in building permissions

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Chief Environmental Engineer, TGPCB