



Subject: Retrofitting of Emission Control Device (RECD) for in-use Diesel operated internal combustion engines up to 800kW (1000KVA) gross mechanical power for generator set in in Jammu and Kashmir.

JKPCC Order: 161 of 2024

Date: 18.10.2024

Reference:

1. Agenda item 13 approved in the fourth meeting of J&K PCC held on 07.10.2024
2. Directions of Hon'ble NGT in OA 681/2018 dated 06/08/2019
3. J&K Pollution Control Committee Order No. 09-JKPCC of 2021 dated 27-12-2021.
4. 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"
5. CPCB communication No. EQ-11099/8/2021-AQM-HO-CPCB-Part (5) of 22.03.2024

Whereas the Government of India, MoEF & CC has launched the National Clean Air Programme (NCAP) for the prevention, control, and abatement of air pollution in the country at an urban and regional level; and,

Whereas the emissions from diesel power generating sets have been identified as one of the major sources of particulate matter in the National Clean Air Programme and by the Hon'ble National Green Tribunal in the original Application No. 681/2018; and,

Whereas Hon'ble National Green Tribunal in its order dated 06 August 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 percent reduction in PM 2.5 and PM 10 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 the year 2025 – 2026; and,

Whereas J&K Pollution Control Committee had issued directions for retrofitting of emission control devices/ equipment in DG sets with capacity of 125 KVA and above in Jammu and Kashmir, vide Order Number 09-JKPCC of 2021 dated 27 December 2021; and,

Whereas the Central Pollution Control Board, New Delhi, has notified the "System and procedure for emission compliance testing of Retro-fit Emission Control Devices RECD for Diesel Power Generating Set Engines up to Gross Mechanical Power of 800 KW," vide Pollution Control Series PCLS/12/2021-22 dated 01/02/2022 (revised on 24/07/2023). This is with the objective for reduction of Particulate Matters (PM) by using RECD for in-use diesel operated internal combustion engines up to 800 KW (1000 KVA); and,

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Whereas the Central Pollution Control Board has recognized and approved the following agencies for the purpose of Certificate of type approval and conformity of production verification compliance process:

1. Automotive Research Association of India (ARAI, Pune)
2. International Centre for Automotive Testing (ICAT, Manesar)
3. Indian Institute of Petroleum (IIP, Dehradun)
4. Vehicle Research Development Establishment (VRDE, Ahmednagar); and,

Note: The details of compliance and testing procedures developed by CPCB is available on their website and the same may be referred to. However, the CPCB may revise the procedure from time to time.

Whereas retrofitting emission control devices/equipment in DG sets is one of the key activities included in the Action Plan for Jammu and Kashmir under the National Clean Air Programme (NCAP); and,

Whereas the Ministry of Environment, Forest and Climate Change has notified the emission standards for new engines used for power generating sets applications up to 800kW Gross Mechanical power, vide G.S.R. 804(E) dated 03 November 2022; and,

Whereas the CPCB, vide communication No. EQ-11099/8/2021-AQM-HO-CPCB-Part (5) of 22.03.2024 has advised the SPCB/PCCs to take certain measures for control of ambient air pollution from DG Set emission in non-attainment cities.

Now, therefore, with the above background, and in exercise of powers vested with the Committee under Section 17 (1) read with section 31 (A) of Air (Prevention and Control of Pollution) Act, 1981 and section 5 of the Environment (Protection) Act 1986, the following directions are hereby issued in supersession of Order No. 09-JKPCC of 2021 dated 27-12-2021:

1. The engines/generating sets manufactured and installed before 01.07.2004 or the engines which are not complying either Stage-I and/or Stage-II emission limits, shall be scrapped. No one shall sell/use/run the above engines/generating sets.
2. All the industries and the establishments, projects, buildings, utilities, airports, railway stations or any other places operating DG sets within the jurisdiction of the UT of Jammu and Kashmir, are hereby directed to:
 - a. Install certified RECDs from approved manufacturers for in-use DG sets of 61 kW to 800 kW capacity, which are older than 5 years from the date of manufacturing and up to its useful life (15 years from the date of manufacturing or 50,000 hours of operation, whichever is earlier) **or** use dual fuel system for in-use DG sets of less than 800 kW capacity up to its useful life as mentioned above **or** shift to gensets meeting emission norms as per GSR 804 (E) dated 03.11.2022.

Explanation:

- (i) The engines complying to emission limits as specified in CPCB Stage-I [GSR 371 dated 17th May 2002 and the diesel genset engines manufactured/imported on or after 01.07.2004 till 01.07.2014 shall establish the compliance of minimum 70% reduction of Particulate

Matter by using the retrofitted after treatment device/s without adversely affecting any other emission parameters.

(ii) The engines complying to emission limits as specified in CPCB Stage-2 / GSR 771 (E) dated 11 Dec 2013 and its amendment vide GSR 232(E) dated 31 Mar 2014, and the diesel genset engines manufactured/imported on or after 1.7.2014 shall establish the compliance of minimum 70% reduction of Particulate Matter by using the retro- fitted after treatment device/s without adversely affecting any other emission parameters.

b. Adopt appropriate air pollution control device strictly subject to compliance of standards notified vide GSR 489 (E) dated 09.07.2002 for DG sets of more than 800 kW.

Further directed that all the Industries, Establishments, Projects, Buildings, Utilities, Airports, Railway Stations or any other places in the Union Territory of Jammu and Kashmir where Diesel Generator sets of capacity up to 800 kW (1000KVA) are in use shall comply with the directions above within a period of 45 days from the date of issuance of this Order, 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.

By order of the Jammu and Kashmir Pollution Control Committee.


(Ghansham Singh) JKAS
Member Secretary 18.10.24

No. JKPCD/4th BM/24/3886-96 Date: 18.10.2024

Copy to the:

1. Financial Commissioner (Additional Chief Secretary) to Government, Forest, Ecology and Environment Department, J&K
2. Chairman, JK Pollution Control Committee
3. Commissioner/ Secretary to Government, Industries and Commerce Department, J&K
4. Regional Director, JKPC, Jammu/Kashmir
5. Environmental Engineer, J&K PCC Jammu
6. Principal Scientific Officer, J&K PCC Jammu
7. Financial Advisor/CAO, J&K PCC Jammu
8. Assistant Environmental Engineer (Headquarters), J&K PCC Jammu
9. Officers in-charge of labs and waste management
10. All Divisional Officers/ Scientists
11. EDP Supervisor/ in-charge website

Copy also to:

All Industries and the establishments, projects, buildings, utilities, airports, railway stations or any other places operating DG sets of capacity 61 KW and above in J&K.