

**COMMISSION FOR AIR QUALITY MANAGEMENT
IN NATIONAL CAPITAL REGION AND ADJOINING AREAS**

17th Floor, Jawahar Vyapar Bhawan (STC Building)
Tolstoy Marg, New Delhi-110001

F. No. A-11018/01/ 2021-CAQM/15322-15331

Dated: 29.09.2023

Subject: Directions under Section 12 of the Commission for Air Quality Management in National Capital Region and Adjoining Areas Act, 2021 – Review of regulations for use of DG sets in NCR.

WHEREAS, Ministry of Environment, Forest and Climate Change, Government of India, in exercise of the powers conferred under Section 3 of the Commission for Air Quality Management in National Capital Region and Adjoining Areas Act 2021, has constituted the Commission for Air Quality Management in National Capital Region and Adjoining Areas (hereinafter referred to as the Commission);

WHEREAS, under Section 12 (1) of the Act, the Commission is vested with powers to take all such measures, issue directions, etc., as it deems necessary or expedient for the purpose of protecting and improving the quality of the air in the National Capital Region and Adjoining Areas;

WHEREAS, Section 12 (2) (ix) of the Act empowers the Commission to issue directions in writing to any person, officer, or any authority and such person, officer or authority shall be bound to comply with such directions;

WHEREAS, Section 12(2)(iv) of the Act empowers the Commission to lay down parameters for discharge of emissions from various sources whatsoever that have implications on the air quality in the region;

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WHEREAS, Section 12(2)(v) of the Act also empowers the Commission to impose restrictions and regulate operations or processes that have implications on air quality in the region;

WHEREAS, the Commission has repeatedly taken up the matter relating to air pollution with the State governments of Haryana, Rajasthan, Punjab, Uttar Pradesh and Government of NCT of Delhi and various organizations concerned of the Central and State Governments/ GNCTD and has issued various Directions, Advisories and Orders for effective implementation of measures for abating air pollution in NCR, from time to time;

WHEREAS, the Commission has observed and has been sensitizing all stakeholders that, amongst others, large-scale unregulated use of Diesel Generator (DG) sets is a major contributing factor for deterioration of air quality in the region;

WHEREAS, in wake of generally prevailing adverse air quality in NCR during the winter season, the Commission, through directions No. 54-57 dated 08.02.2022, followed by Direction No. 68 dated 14.09.2022 and its related orders called for regulated use of DG Sets in the NCR, particularly during the periods of restrictions under the GRAP, subject to adopting emission control measures /devices/ systems such as retrofitted Emission control devices (ECDs) and dual fuel mode (gas and diesel), amongst other means of emission control;

WHEREAS, large number of DG sets operating in the region, even during the periods other than restrictions under the GRAP, cause heavy air pollution and are a matter of concern and thus, with a view to regulating the use of DG Sets even for such periods, the Commission issued Direction No. 71 for expeditious conversion of DG Sets to dual fuel mode, in areas where gas infrastructure and supply is available;

WHEREAS, the Commission from time to time reviewed the progress and status in this matter, in line with various directions issued by it;

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WHEREAS, the Commission revisited / reviewed some provisions of the extant directions on the regulated use of DG sets and issued a revised Direction No. 73 dated 02.06.2023, to be applicable across all sectors in the NCR including Industrial, Commercial, Residential and Office establishments etc., as well as permitting more time to implement the schedule w.e.f. 01.10.2023.

WHEREAS, preparatory actions were initiated by various stakeholders towards emission control from DG sets through retro-fitted ECDs and / or dual fuel systems, a number of representations were still being made to the Commission, including deliberations / meetings with various stakeholders in this context, wherein the following were highlighted:

- i. Issues related to availability of certified RECDs and agencies for all capacity ranges and vintages of DG sets.
- ii. Issues related to availability / delays in PNG infrastructure and supply, purely for DG sets.
- iii. Techno-commercial issues, logistics and time involved for fitment of RECDs / conversion to dual fuel mode.
- iv. Issues related to availability of DG sets to the latest standards as in MoEFCC notification No. GSR 804(E) dated 03.11.2022 (CPCB-IV).
- v. No means for emission control in under 19 kW capacity range of DG sets (neither RECDs nor dual fuel mode are available / suited).
- vi. Issues related to use of DG sets for emergency services.

Owing to the above, a number of stakeholders broadly requested for the following:

- (a) Extension of the deadline of 30.09.2023, as laid down in Direction No. 73, by about 3 months.
- (b) Stipulating a condition of '**OR**' instead of '**AND**' towards fitment of RECDs and conversion to dual fuel system, for all categories of DG sets above 19kW capacity.
- (c) Permitting DG Sets of >800 kW capacity to be run uninterruptedly for the durations of power supply failure, subject to compliance of



standards as in Direction No. 73 dated 02.06.2023, even during restrictions under GRAP.

- (d) Permitting such DG sets of < 125 kW capacity to be run for emergency services, even during the restrictions under the GRAP, where either certified ECDs are presently not available at all or where gas infrastructure and supply is also not available to enable running them in a dual fuel mode.

NOW, THEREFORE, in due consideration of the contentions and submissions made by various stakeholders, issues in ground level implementation, availability of RECDs / dual fuel systems / new gensets to CPCB -IV standards and various other techno-commercial considerations put forth by them, the Commission, pursuant to a comprehensive review and in supersession of all extant directions / orders / guidelines on the regulations for DG sets, now directs for adoption of the following Schedule for regulated operations of DG sets (only as a backup against regular power supply failures) across all sectors in NCR including Industrial, Commercial, Residential and Office establishments etc.:

S. No.	Capacity Range of DG sets	System to be adopted for control of emissions	Regulations for use
1.	Power generating sets of all capacities running on LPG/ Natural Gas/ Bio-gas/Propane/Butane	None	No restrictions (Even during periods under GRAP)
2.	Power generating sets of all capacities up to 800 kW to standards as per MoEFCC notification No. GSR 804(E) dated 03.11.2022	None	No restrictions. (Even during periods under GRAP)

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3.	800 kW and above	Any emission control mechanism, strictly subject to compliance of emission standards as indicated below. *	No restrictions (Even during periods under GRAP)
4.	125 kW to less than 800 kW	Dual fuel mode OR Retro-fitted ECDs through certified vendors / agencies	No restrictions (Even during periods under GRAP)
5.	19 kW to less than 125 kW	Dual fuel mode	No restrictions (Even during periods under GRAP) DG Sets not working in a dual fuel mode, only owing to non-availability of gas infrastructure and supply, shall be permitted only for emergency services as stipulated in this direction.
6.	Portable DG sets (below 19 kW)	Presently no specific means of emission control are available in this category / capacity range of DG sets.	No restrictions during the periods, other than restrictions under GRAP. Not to be generally permitted during periods of restriction under GRAP. These shall, however, be permitted even during periods under GRAP only for emergency services as stipulated in this direction.

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***Standards for stack emissions for 800 kW and above capacity DG sets**

S.No	Parameter	Emission Standards
i.	PM (at 15% O ₂)	50 mg / Nm ³
ii.	NO _x (at 15% O ₂)	650 mg / Nm ³
iii.	CO (at 15% O ₂)	100 mg / Nm ³
iv.	Minimum DG Stack height	30 meters OR minimum 6 meters above the height of the building where DG set is installed, whichever is higher. For example , if the building height where such DG set is installed is 20 meters, minimum stack height for DG set should be 30 meters from ground level; While, if the building height itself is 27 meters, the minimum stack height for the DG set should be 33 meters from the ground level.

The regulated schedule for operation of DG sets issued vide Direction No. 73 dated 02.06.2023 comes to effect from 01.10.2023. The revised schedule as above further eases out the means of implementation and addresses practical difficulties and techno-commercial concerns of various stakeholders and thus the revised schedule for regulation of DG sets would be in force in the entire NCR w.e.f. 01.10.2023.

Notwithstanding the revised schedule as above, in the interest of not disrupting emergency services and permitting sufficient time for adopting the stipulated emission control mechanism in such existing DG Sets, the Commission, hereby, as a one-time exception, permits DG Sets for all capacity ranges (which have still not been equipped with emission control devices / systems as per the above noted schedule), to be run only for emergency services in the NCR as listed below, even under periods of restrictions under the GRAP, **only up to 31.12.2023** and strictly subject to adherence to the above noted schedule / measures for emission control thereafter:

- (i) Elevators / Escalators / Travelators etc. in various installations; Commercial entities / residential societies shall, however, ensure that operation of DG sets and supply

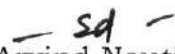
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therefrom is purely limited to operation of elevators / escalators / travelators etc. and not for any other activities of commercial entities / residential societies.

- (ii) Medical Services (Hospital/Nursing Home/Health care facilities) including units involved in manufacturing of life saving medical equipment/devices, drugs and medicines.
- (iii) Railway Services / Railway Stations.
- (iv) Metro Rail Corporation & MRTS Services, including trains and stations.
- (v) Airports and Inter-State Bus Terminals (ISBTs).
- (vi) Sewage Treatment Plants.
- (vii) Water pumping Stations.
- (viii) Projects related to national security, defence & of national importance.
- (ix) Telecommunications and IT/ data services.

It is further reiterated that appropriate emission control mechanism shall be put in place on or before 31.12.2023, in respect of DG sets being used in above listed emergency services, to avoid action under the relevant provisions of laws / rules / regulations / directions etc., thereafter.

NCR State PCBs/ DPCC shall ensure compliance of above noted directions and regularly monitor the field level implementation.



(Arvind Nautiyal)
Member- Secretary

To

1. The Chief Secretary, Government of NCT of Delhi
2. The Chief Secretary, Government of Haryana
3. The Chief Secretary, Government of Rajasthan
4. The Chief Secretary, Government of Uttar Pradesh

Copy to:

1. Chairman, DPCC
2. Chairman, HSPCB
3. Chairman, RSPCB
4. Chairman, UPPCB
5. Chairman, CPCB.
6. The Chairperson and all Members, CAQM.


(Arvind Nautiyal)
Member- Secretary



राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्र
वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in
National Capital Region and
Adjoining Areas



F. No.11O16/01/ 2022-CAQM.Vol-III

Dated: 22.02.2024

Subject: Amendments to Direction No. 76 dated 29.09.2023- Regulated use of DG Sets-reg

Pursuant to a comprehensive review and in supersession of all extant directions / orders / guidelines on the regulations for DG sets, Direction No. 76 dated 29.09.2023 was issued by the Commission under section 12 of the Commission for Air Quality Management in NCR & Adjoining Area, Act, 2021, directing for adoption of the Schedule for regulated operations of DG sets (only as a backup against regular power supply failures) across all sectors in NCR including Industrial, Commercial, Residential and Office establishments etc.

2. As certified Retrofitted Emission Control Devices (RECD) are now available for 61 to 125 KW capacity range of DG sets, Sr. No 4 & 5 in said Direction No. 76 dated 29.09.2023 are hereby amended as under:

S. No.	DG set Capacity range as mentioned in Direction No. 76	DG Set Capacity range as amended now
4.	125 KW to less than 800 KW	61 KW to less than 800 KW
5.	19 KW to less than 125 KW	19 KW to less than 61 KW

3. All other stipulations under the Direction No 76 dated 29.09.2023 will remain unaltered.

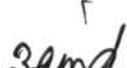

(Arvind Nautiyal)

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3. The Chief Secretary, Government of Rajasthan
4. The Chief Secretary, Government of Uttar Pradesh

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4. Chairman, UPPCB
5. Chairman, CPCB.
6. The Chairperson and all Members, CAQM


(Arvind Nautiyal)
Member Secretary



राष्ट्रीय राजधानी क्षेत्र और निकटवर्ती क्षेत्र
वायु गुणवत्ता प्रबंधन आयोग
Commission for Air Quality Management in
National Capital Region and
Adjoining Areas



F. No.11016/01/ 2022-CAQM.Vol-III 1165 DT

Dated: 11.12.2024

Subject: Amendment to Direction No. 76 dated 29.09.2023- Regulated use of DG Sets-reg

Direction No. 76 dated 29.09.2023 was issued by the Commission under section 12 of the Commission for Air Quality Management in NCR & Adjoining Area, Act, 2021, directing for adoption of the Schedule for regulated operations of DG sets (only as a backup against regular power supply failures) across all sectors in NCR, including Industrial, Commercial, Residential and Office establishments etc.

2. Owing to availability of certified ECDs now also for DG sets upto 41 kW capacity, as against only up to 61 kW capacity and higher earlier, the schedule for emission control from DG sets Sr. No 4 & 5 in said Direction No. 76 as amended on 22.02.2024, is hereby further partially amended as under:

Sr. No.	DG set Capacity range as amended on 22.02.2024	DG Set Capacity range as amended now
4.	61 KW to less than 800 KW	41 KW to less than 800 KW
5.	19 KW to less than 61 KW	19 KW to less than 41 KW

3. All other stipulations under the Direction No 76 dated 29.09.2023 will remain unaltered

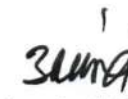

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