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DEKONIX INDIA PRIVATE LIMITED

Dear Sir,

We take the privilege to bring this to your kind notice that Diesel Generating Set emission parameters has been revised by MoEFCC, Govt. of India as per published Gazette CG-DL-E-04112022-240031 dated 3rd Nov 2022.

This is an extension to the DG Set Emission law as per CPCB-IV published by CAQM i.e. Circular A-110018/01/2021-CAQM.

All the DG Sets (Existing and New) should comply CPCB-IV Emission norms by implementing Retrofit Emission Control Device (RECD)

We are glad to inform you that, we have successfully tested an above expectation “Retrofit Emission Control Device - RECD” which has shown 96% pollutant conversion results in the durability and conversion test.

We have RECD devices which can be customised for all brands of DG Sets having varying capacity ranging from 1KVA to 4000 KVA. We intend to further draw your attention towards providing RECD for DG Sets having capacity over 800 KW. These DG Sets are most polluting in terms their Diesel consumption and heavy pollution emission in the environment.

We as a company feel that our focus of these big capacity DG Sets will help speed up the achievement of “Zero emission” goal of our Government. Henceforth we have attached a presentation categorically inclined towards RECD devices for 800 KW and above capacity DG Sets.

Please let us give you more insights by meeting your kind self personally and discussing how to work together in reducing pollution from our environment.

Warm Regards,

Raj Khanna
Director
Dekonix India
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Actual picture for reference

Solution For "Pollution"

Capacity : 800 KW and above Diesel Generator Set

M5, 2nd Flr , M-Block Mkt
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New Delhi 110048
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Pollution Control Device

EMISSION STANDARDS FOR DIESEL ENGINES (ENGINE RATING MORE THAN 0.8 MW (800 KW) FOR POWER PLANT, GENERATOR SET APPLICATIONS AND OTHER REQUIREMENTS

Parameter		Area Category	Total engine rating of the plant (includes existing as well as new generator sets)	Generator sets commissioning date		
				Before 1.7.2003	Between 1.7.2003, and 1.7.2005	On or after 1.7.2005
NOx (as NO_2), (AT 15% O2) , dry basis, in ppmv		A	Upto 75 MW	1100	970	**710**
		B	Upto 150 MW			
		A	More then 75 MW	1100	710	**360**
		B	More then 150 MW			
NMHC (as C)(at 15% O2), mg/Nm3		Both A and B		150	**100**	
PM (at 15% O_2), mg/Nm3	Diesel Fuels-HSD & LDO	Both A and B		75	**75**	
				150	**100**	
CO (at 15% O_2), mg/Nm3		Both A and B		150	**150**	
Sulphur Content in fuel		A		**< 2%**		
		B		**< 4%**		
Fuel specification		For A only	Up to 5MW	**Only Diesel fuels (HSD, LDO) shall be used.**		
Stack height (for generator sets commissioned after 1.7.2003)		**Stack height shall be maximum of the following, in meter:** **(i)14 $Q^{0.3}$, Q= Total SO_2 emission from the plant in kg/hr.** **(i)Minimum 6 m. above the building where generator set is installed.** **(i)30 m.**				

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Pollution Control Device

Emission Parameters:
Actual Vs CAQM Vs EO Energy Commitment

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EMISSION STANDARDS FOR DIESEL ENGINE S (ENGINE RATING MORE THAN 0.8 MW (800 KW) FOR POWER PLANT, GENERATOR SET APPLICATIONS AND OTHER REQUIREMENTS *(Emission Standards for Diesel Engines (Engine Rating more than 0.8 MW (800 KW) were notified by the Environment (Protection) Third Amendment Rules 2002, vide G.S.R. 489 (E), dated 9thJuly, 2002 at serial no. 96, under the Environment (Protection) Act, 1986.)*						As per CAQM Notification F. No. A-110018/01/2021-CAQM	As per CAQM Notification F. No. A-110018/01/2021-CAQM
Parameter	Area Category	Total engine rating of the plant (includes existing as well as new generator sets)	Generator sets commissioning date			Direction No - 68 dated 14.09.2022 Direction No - 73 dated 02.06.2023	EO Energy Pvt Limited Committed to Acheive
			Before 1.7.2003	Between 1.7.2003 and 1.7.2005	On or after 1.7.2005		
NOx (as NO_2) (AT 15% O2) , dry basis, in ppmv	A	Upto 75 MW	1100	970	710	650 mg/Nm3	≤ 650 mg/Nm3
	B	Upto 150 MW					
	A	More then 75 MW	1100	710	360		
	B	More then 150 MW					
NMHC (as C)(at 15% O2), mg/Nm 3	Both A and B		150	100			
PM (at 15% O2), mg /Nm3 — Diesel Fuels- HSD & LDO	Both A and B		75	75		50 mg/Nm3	≤ 25 mg/Nm3
PM (at 15% O2), mg /Nm3 — Furna ce Oils- LSHS & FO	Both A and B		150	100			
CO (at 15% O_2),	Both A and B		150	150		100 mg/Nm3	≤ 45 mg/Nm3
Sulphur Content in fuel	A		< 2%				
	B		< 4%				
Fuel specific ation	For A only	Up to 5MW	Only Diesel fuels (HSD, LDO) shall be used.				
Stack height (for generator sets commissioned after 1.7.2003)	Sta ck height shall be maximum of the following, in meter: (I) 14 $Q_{0.3}$, Q= Total SO_2 emission from the plant in kg / hr. (II) Minimum 6 m. above the building where generator set is installed. (III) 30 m.					Maximum of the following (in mtr) (I) Minimum 6 m above the building where DG set is installed. (II) 30 M.	

Device Configuration

(NOx + PM + HC + CO)

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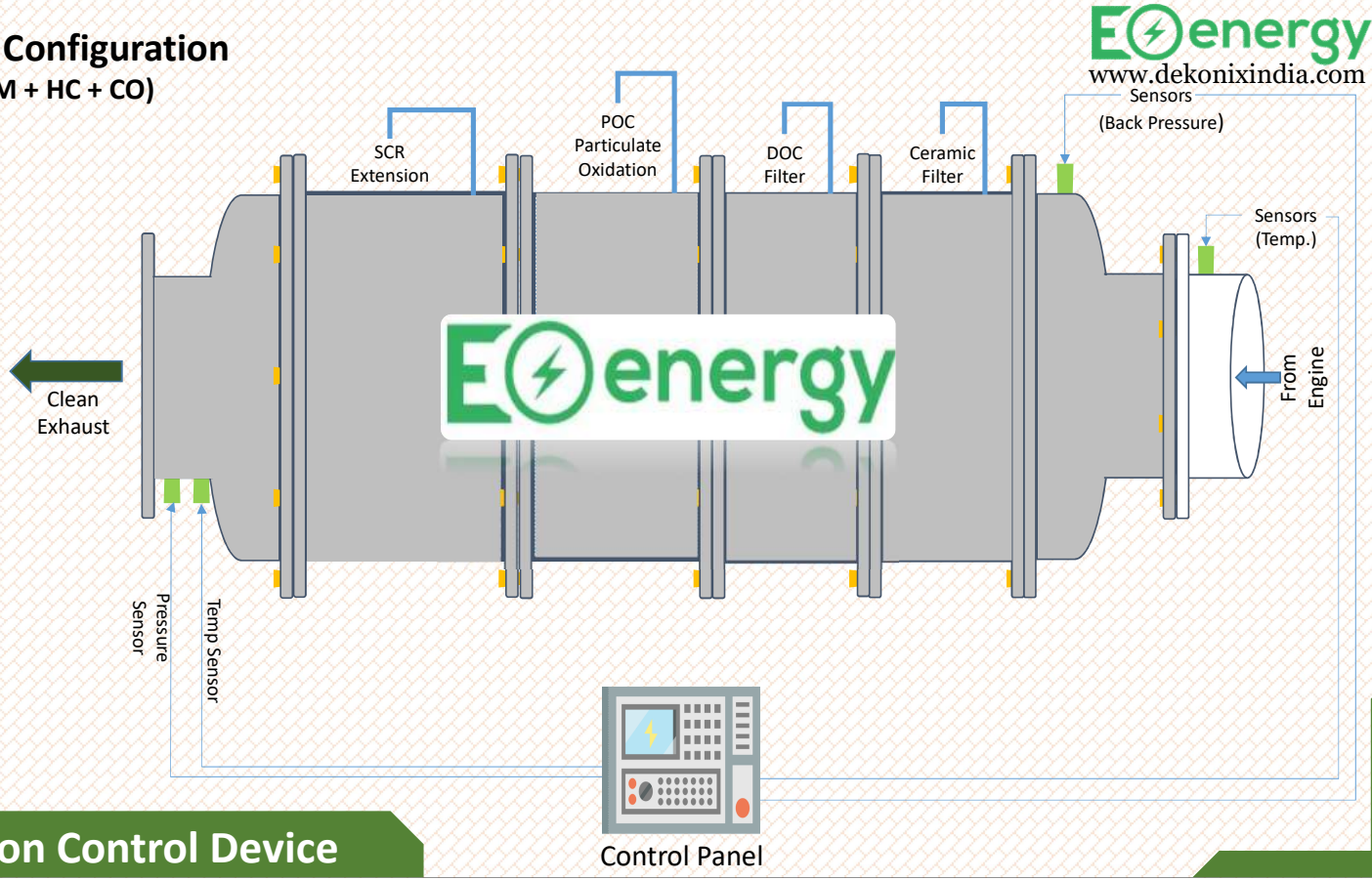

Pollution Control Device

Why: EO Energy Private Ltd.

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EO Energy Pollution Control Device that is capable of handling loads exceeding 800 kW.

High-Performance Exhaust Gas Filtration System or Pollution Control Device for Diesel Generator Sets of more than 800 KW ratings

Exhaust Polluted Gas Filtration System or Pollution Control Device, designed to reduce harmful emissions from diesel generator sets significantly. Our system utilizes advanced Diesel Particulate Filter (DPF),DOC (Diesel Oxidation Catalyst) and Selective Catalytic Reduction (SCR)

Diesel Oxidation Catalyst Catalytic**) and SCR(**Selective Catalyst Reduction**) technology, providing superior performance compared to traditional methods like water filtration and electrostatic precipitator (ESP).**

Key Features and Benefits:

- **Exceptional Black Smoke Purification:** Achieves a purification rate of up to 85-98%, effectively reducing black smoke emissions.
- **Automatic Regeneration:** Our Catalyst Continuously Regenerating Technology (CCRT) ensures efficient and automatic removal of particulate matter (PM), CO, HC, NO,NO2,NOX and other harmful gases without additional pollution.
- **Enhanced Diesel Oxidation:** The integrated Diesel Oxidation Catalyst (DOC) promotes chemical oxidation of CO, HC, and SOF portions of diesel particulates.
- SCR is a continuous process that reduces nitrogen oxide (NOx) emissions from a diesel engine .
- **High-Quality Construction:** Our system features durable materials and precise engineering for long-term reliability.
- **Easy Installation:** The universal design and low back pressure levels simplify installation.
- **Improved Engine Performance:** Restores optimal diesel engine performance by reducing emissions.
- **Customization Options:** Polishing, etching, and custom designs are available to meet specific requirements.
- We are committed to meet No2/Nox ratio is not higher as per regulatory body.
- **Euro VI Compliance:** Our system meets or exceeds the stringent Euro VI emission standards.
- **Wide Application:** Suitable for diesel power generation sets more than 1000 KW.

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System Components:

- Air inlet port
- Air outlet
- Particulate control diagnostic system(PCD)
- Passive Regeneration system
- Diesel oxidation catalyst (DOC)
- Diesel particulate filter (DPF)
- Selective Catalyst Reduction(SCR)
- Sensors(Temperature and Pressure)

You can rely on US.....

- Installation of NABL Lab Tested Pollution Control Device (PCD)
- Compliance from CPCB as in certification
- Compliance from CAQM as in certification
- Compliance from State Pollution Control Board
- Providing support and assistance to all compliance related as per present laws for Pollution Control Device
- Legal compliance: Consent amendment as per CPCB & Hon'ble NGT.

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