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TYPE APPROVAL CERTIFICATE

FOR

 Date: 30th June 2023

 Cert
 Report
 Specs
 Drg
 Total

 05
 16
 199
 17
 237 pgs

Retro-fit Emission Control Devices (RECD) Compliance

1. Based on the verification of documents & trials conducted on RECD model "Chakr Shield 2.0_C2-CS1800-R10-V2" (Family designation C2-R10) to below mentioned manufacturer and it is certified that the following RECD model complies with the provisions of Type Approval of CPCB System Procedure for Retro-fit Emission Control Devices (RECD) Compliance to Diesel Power Generating Set Engines Up to Gross Mechanical Power 800 kW, as per NGT Order/report "Report filed in O.A. No. 681/2018 dated 6.08.2019".

Generating	Set Engines Up	to Gross Mechanical	Power 800 kW, as per NG	order/repor	t "Report filed in O.A. No. 681/2018 dated 6.0	8.2019 .	
Documental Reference			RECD Manufacturer				
COSG 0504 V01 dtd. 12.05.2023			M/s.Chakr Innovation Pvt Ltd S.NO 236, Hissa No.7 & S.NO 237, Taluka Mulish, Hinjewadi, Phase 1, Pune - 411 057, Maharashtra Plant: Hinjewadi, Pune				
REC	D Family D	esignation	Engine Manufacturer			RECD Model	
Earnilly d	C2-R1	JO CONTROL COLINIES	M/s. Caterpillar Inc.			Chakr Shield 2.0_C2-CS1800-R10-V2	
Tested Engine Model					Engine Cubic Capacity	Gross Engine Power	
a fication of	a significant	C15-2G	P-1	51800.P	15200 cm ³	454 kW @ 1500 rpm	
_	Baseline ssions	CPCB Stage	-II Class of RECD	Class II	Engine Manufacturing Date	September 2017	
O N =	Item Description		Parent RECD Type		RECD types within the RECD family (if applicable)		
S. No.			Annexure-II				
RECD suitable for Phase II Certified Diesel Generator engine / engine famillies Annexure-III							

2. Validity of the Certificate

This Type Approval Certificate is valid for Genset engine CPCB Stage -II effective from 01.07.2014 to 30.06.2023.

- As per System and procedure for Emission Compliance of Retro-fit
 Emision Control Devices(RECD) for Diesel Power Generationg Set
 Engines up to Gross Mechanical power 800kW as per NGT Order/report
 "Report filed in O.A. No. 681/2018 dated 06.08.2019 or until further
 amendment in the MoEFCC rule, whichever is earlier.
- b. No change in specified RECD technical specification.
- 3. It is certified that the above RECD Model (Details listed in Annexure-II) comply with the emission limits for Retro-fit Emission Control Devices (RECD) to Diesel Power Generating Set Engines having Gross Mechanical Power 454 kW, as prescribed under the following rules, notified by Ministry of Environment, Forest and Climate Change (MoEFCC), Govt. of India:

8	Rule No.	Description	Date
	jid foli	System and procedure for Emission Compliance of Retro-fit Emision Control Devices(RECD)	YO, Y.
CPC	B-PCLS/12/2021-22	for Diesel Power Generationg Set Engines up to Gross Mechanical power 800kW as per NGT	01.02.2022
Jice's	,0e	Order/report "Report filed in Q.A. No. 681/2018 dated 6.08.2019	;cest

- 4. COP: COP shall be completed by 30.06.2024 as per CPCB Procedure, for details refer COP Annexure-I.
- 5. This certificate supercedes the earlier certificate COSG 0504 V01 dt. 12.05.2023

