[National Automotive Board (NAB)]

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TYPE APPROVAL CERTIFICATE

FOR

Date: 03 rd December 2024						
Cert	Report	Specs	Drg	Total		
04	18	149	28	199 pgs		

Retro-fit Emission Control Devices (RECD) Compliance

1. Based on the verification of documents & trials conducted on RECD model "C2-CS1800-R12" (Family designation C2-R12) for 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 Q.A. No. 681/2018 dated 6.08 2019"

		Order/report Report med	III O.A. NO. 00 I/	2018 dated 6.08.2019".			
Documental	Reference	RECD Manufacturer					
		M/s Chakr Innovation Pvt. Ltd.					
COTG	0012	Survey No. 236, H	lissa No. 7 a	o. 7 and Survey No. 237 Hinjewadi, Taluka Mulshi, Pune,			
dtd. 11/0		Maharashtra - 411		, ,			
		Plant : Hinjewadi, Pune					
RECD Family Designation Engine Ma			Engine Ma	nufacturer	Tested Engine Model		
C2-R	112	M/:	s Cummins	India Limited	KTA-38-G17		
RECD Model				Engine Cubic Capacity	Gross Engine Power		
C2-CS1800-R12				38000 cm ³	797 kW @ 1500 rpm		
Engine Baseline emissions	CPCB Stage	Class of RECD	Class II	Engine Manufacturing Date	January 2023		
C No. Itom	Parent RECD Type RECD types within the RECD family (if applic			the RECD family (if applicable)			
S. No. Item	No. Item Description			Annexure-II			
RECD suitable for Phase I 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.	a.	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 500.3kW to 797.0kW, as prescribed under the following rules, notified by Ministry of Environment, Forest and Climate Change (MoEFCC), Govt. of India:

Rule No.	Description	Date
1	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	01.02.2022
	Order/report "Report filed in O.A. No. 681/2018 dated 6.08.2019	

- 4. COP: COP shall be completed by 30.06.2025 as per CPCB Procedure, for details refer COP Annexure-I.
- 5. This Certificate supercedes the earlier certificate COTG 0012 dt. 11.01.2024

AUTHORISED SIGNATORY		
SITARAM KASHYAP	SAURABH DALELA	Page 1 of
DEPUTY GENERAL MANAGER	DIRECTOR	4