

C O R G 0991

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Date: 27th September 2022

## TYPE APPROVAL CERTIFICATE

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Retro-fit Emission Control Devices (RECD) Compliance

1. Based on the verification of documents & trials conducted on RECD model "Chakr Shield 2.0" (Family designation C1-R5) 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 O.A. No. 681/2018 dated 6.08.2019".

	to Gross Mechanical Power 800 kW, as per NGT	Order/report "Report filed in O.A. No. 681/2	2018 dated 6.08.2019".	or 6. 1111			
	Documental Reference	RECD Manufacturer					
0	Ry.	M/s.Chakr Innovation Pvt Ltd					
Current Certificate S.NO 236, Hissa No.7 & S.NO 237, Taluka Mulish, Hinjewadi, Phase 1, Pune - 411 057, M							
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5	RECD Family Designation	Engine Ma	nufacturer	RECD Model			
	REPERTY C1-R5	M/s. Cummins	s India Limited	Chakr Shield 2.0			
Ŏ.	Tested Engir	ne Model	Engine Cubic Capacity	Gross Engine Power			
	HADEL HE SELECT GBTAA5	GI-1	5883 cm <sup>3</sup>	112 kW @ 1500 rpm			
5	Engine Baseline emissions CPCB Stage	-1 Class of Class II	Engine Manufacturing Date	November 2007			

2. Validity of the Certificate

	. 00	As per System and procedure for Emission Compliance of Retro-fit Emission Control Devices(RECD) for Diesel Power Generationg Set
This Type Approval Certificate is valid for		Engines up to Gross Mechanical power 800kW as per NGT Order/report
Genset engine CPCB Stage -1 effective from	l .	"Report filed in O.A. No. 681/2018 dated 06.08.2019 or until further
01-07.2007 to 01.07.2014, and in addition to		amendment in the MoEFCC rule, whichever is earlier.
01-07.2007 to 01.07.2014, and in addition to	, 6B)	amending it in the Moti of Tale, whichever is earlier.
	( )	Who the transfer of the transf
	b.	No change in specified RECD technical specification.

3. It is certified that the above RECD Model (Details listed in Annexure-I)comply with the emission limits for Retro-fit Emission Control Devices (RECD) to Diesel Power Generating Set Engines Up to Gross Mechanical Power 112 kW, as prescribed under the following rules, notified by Ministry of Environment, Forest and Climate Change (MoEFCC), Govt. of India:

Rule No.	le No. Description	
Inday "4 CB,	System and procedure for Emission Compliance of Retro-fit Emission Control Devices(RECD)	TARS SAK
CPCB-PCLS/12/2021-22	for Diesel Power Generationg Set Engines up to Gross Mechanical power 800kW as per NGT	30.12.2021
MIS. Stion	Order/report "Report filed in Q.A. No. 681/2018 dated 6.08.2019	Ch'

4. COP: COP shall be completed by 30.06.2023 as per CPCB Procedure, for details refer COP-Annexure.

Please turn over for Disclaimer

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6	VIJAYANTA AHUJA DEPUTY GENERAL MANAGER	* MANESAR * LS	1,0	ELA TIKKU (ÖÖTÜL)	Page 1 of