

C O R G 0991 V01

© R G0999 V01

Date: 23<sup>rd</sup> November 2022

## TYPE APPROVAL CERTIFICATE

FOR

Cert Report Specs Drg Total

02 77 11 90 pgs

## Retro-fit Emission Control Devices (RECD) Compliance

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 NG	Order/report Report filed in O.A. No. 681/	2018 dated 6,08,2019".	The Mr. Egg.			
Documental Reference	RECD Manufacturer					
" Ting Op, Working,	M/s.Chakr Innovation Pvt L	td, to thought the	is. Ethers, "ou by			
CORG 0991 dtd. 27.09.2022	S.NO 236,Hissa No.7 & S.NO	Phase 1, Pune - 411 057, Maharashtra				
Record And Report Plant; Hinjewadi, Rune						
RECD Family Designation	Engine Ma	nufacturer	RECD Model			
C1-R5 CA	Chakr Shield 2.0					
Tested Engi	ne Model	Engine Cubic Capacity	Gross Engine Power			
6BTAA5:9 GI-1		5883 cm <sup>3</sup>	112 kW @ 1500 rpm			
Engine Baseline emissions CPCB Stage	-1 Class of Class II	Engine Manufacturing Date	November 2007			
Base Engine Type Approval Ce	rtificate number	ARAI/MOEF/DGTA/CIL-F18/2	2004-56			
The above mentioned RECD me Engine (s)	odel is applicable for Phase	Certified Diesel Generator	Refer ANNEXURE-I			

2. Validity of the Certificate

This Type Approval Certificate is valid for Genset engine CPCB Stage -1 effective from 01-07.2007 to 01.07.2014 , and in addition to

- 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 comply with the emission limits applicable 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:

3	Rule No.	Description	Date	
Ĭ	ajion waki	System and procedure for Emission Compliance of Retro-fit Emision Control Devices(RECD)	Me Me	
	CPCB-PCLS/12/2021-22	for Diesel Power Generationg Set Engines up to Gross Mechanical power 800kW as per NGT	30.12.2021	
ı	chart.	Order/report "Report filed in O.A. No. 681/2018 dated 06.08.2019	فرفكم.	

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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~	VIJAYANTA AHUJA DEPUTY GENERAL MANAGER	* MANESAR * N		A TIKKU	Page 1 of
ijo	DEPUTT GENERAL MANAGER	, G.	DIRECTO	JR (Qrig.)	<u> </u>