



C O S G 0627 E01

Date : 08th January 2024

C O S G 0627 E01

TYPE APPROVAL CERTIFICATE

FOR

Retro-fit Emission Control Devices (RECD) Compliance

Cert	Report	Specs	Drg	Total
05	---	131	14	150 pgs



1. Based on the verification of documents & trials conducted on RECD model "DOFF/OC: HCT/20:100/600" (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".

This Certificate Supercedes		RECD Manufacturer		
C O S G 0627 dt. 13 th December 2023		M/s Chakr Innovation Pvt. Ltd. Survey No. 236, Hissa No. 7 and Survey No. 237 Hinjewadi, Mulshi, Pune, Maharashtra - 411057 Plant : Hinjewadi, Pune		
RECD Family Designation		Engine Manufacturer		Tested Engine Model
C1-R5		M/s Mahindra Heavy Engines Limited		125KVA MECH CPCB II
RECD Model		Engine Cubic Capacity		Gross Engine Power
DOFF/OC: HCT/20:100/600		7200 cm ³		114.7 kW @ 1500 rpm
Engine Baseline emissions	CPCB Stage -II	Class of RECD	Class II	Engine Manufacturing Date
				April 2017
S. No.	Item Description	Parent RECD Type		
		Annexure-II		
		RECD suitable for Phase I Certified Diesel Generator engine / engine families		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 Emission Control Devices(RECD) for Diesel Power Generating 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 75kW to 114.7kW, as prescribed under the following rules, notified by Ministry of Environment, Forest and Climate Change (MoEFCC), Govt. of India:

Rule No.	Description	Date
CPCB-PCLS/12/2021-22	System and procedure for Emission Compliance of Retro-fit Emission Control Devices(RECD) for Diesel Power Generating Set Engines up to Gross Mechanical power 800kW as per NGT Order/report "Report filed in O.A. No. 681/2018 dated 6.08.2019	01.02.2022

4. COP : COP shall be completed by 30.06.2024 as per CPCB Procedure, for details refer COP Annexure-I.

AUTHORISED SIGNATORY			
SITARAM KASHYAP DEPUTY GENERAL MANAGER		 SAURABH DALELA DIRECTOR	
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