

The Automotive Research Association of India

(Research Institution of the Automotive Industry with the Ministry of Heavy Industries, Govt, of India)

RECD Type Approval Certificate No

ARAI/MoEF/RECDTA/NIPL-R2/2024-02

Date: 25th October 2024 Spec + Drg

172

Total

200 Pgs

Rep

24

Cert

CERTIFICATE OF TYPE APPROVAL

COMPLIANCE TO PARTICULATE MATTER EMISSION NORMS FOR RETROFIT EMISSION CONTROL DEVICE ON IN-USE DIESEL GENSET ENGINE (up to 800 kW)

In order to establish compliance to the provisions of Particulate Matter emission, applicable as on date, documental verification/ necessary testing was carried out on the following Retrofit Emission Control Device model(s), submitted by the manufacturer / supplier referred below:

Retrofit Emission Control Device Manufacturer (RECD Manufacturer, Assembler Type Approval Certificate Owner)			Retrofit Emission Manufactu	n Control D ıring Plant	evice	Test Report Reference	
M/s. Novorbis Itus Pvt. Ltd. 212, Kolte Patil City Centre, Hinjewadi Phase -1 Pune, Maharashtra – 411057		M/s. Novorbis Itus Pvt. Ltd. Survey No 261/1, Kasurdi Kheba, Karandi Kheba, Bhor, Pune, Maharashtra, 41206				EDL/RECDTA/NIPL-R2/2024/03 dt. 23.10.2024	
Retrofit Emission Control Device Model			RECD Class		RECD Family		System and Procedure
Parent			arbonFree-500K	Class I	R2		Pollution Control Series PCLS/12/2021-22
Engine Manufacturer			Tested Engine Model/s	Engine Family	Gross Engine Power		Engine Type approval Certificate No.
Phase II	M/s. Greaves Cotton Ltd.		I2VI4TAG23	F-500	444 kW @ 1500 rpm		ARAI/MoEF/DGTA/GCLP- F500/2014-01-E4
	M/s. Greaves Cotton Ltd.		6G11TAG29	F-201	178.8 kW @ 1500 rpm		ARAI/MoEF/DGTA/GCLP- F201/2015-11-E2
RECD suitable for Phase Phase II Certified Diesel Generator engine / engine families							See Annexure I

- It is certified that the above-mentioned Retrofit Emission Control Device family/models comply with the emission limits applicable for In-Use Genset Diesel Engines (upto 800 kW), as prescribed under NGT Order O.A. No. 681/2018 dt. 06.08.2019.
- The above R2 RECD Family / model is suitable for retro fitment of In-use DG Set manufactured for Phase II On or after 1st July 2014 to 30th June 2024
- Validity of the Certificate:

	1. The validity of existing emission requirements as per NGT Order No. O.A. 681/2018 dated		
This RECD Type Approval	06.08.2019 or until further amendment, whichever is earlier.		
**	2. No change in technical specification of the Retrofit Emission Control Device specified		
Certificate is Valid till	3. Explicitly the Type Approval Certificate withdrawn by the engine supplier		
	4. Till CoP is not missed		

Conformity of Production (CoP) requirements:

COP test shall be carried out every year (between the period 1st July and 30th June) as per "System and Procedure for Emission Compliance Testing of Retro-fit Emission Control Devices (RECD) For IN-USE Diesel Power Generating Set Engines Up to Gross Mechanical Power 800 kW" or further amendment.

AUTHORISED SIGNATORY

Dr. REJI MATHAI

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An ISO 9001, ISO 14001, ISO 45001 and ISO/IEC27001 Certified Organization

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