

## COP Annexure-I

Criteria*	COP Required
RECD Manufacturer/Importer/Retrofitter	RECDs fitted on engines of all ratings shall be subjected to the verification of CoP once for every 500 units per family or once a year, whichever is earlier Wherever applicable, RECDs fitted on engines of all ratings of engines shall be subjected to the verification of PCD once every CoP-year by PCD family (ies) representative RECD(s). Such demonstration is PCD family dependent and irrespective of combined volumes produced and sold under such family (ies)

\* As Applicable

## Annexure-II

S No	Item Description	Parent RECD Type
		Type 1
1	Manufacturing Plant address	M/s Inventive Gas Equipment, Plot No. 98, Udyog Vihar Extension, Ecotech II Greater Noida, Uttar Pradesh- 201306
2	Manufacturer's trade name or mark	Inventive
3	RECD family designation	F-LR04
4	RECD type/model designation	VAYU-PURE LR-04
5	RECD Category (Domestic/Imported)	Domestic
6	Class of RECD	Class II
7	Type Identification of the RECD	Continuous
8	Location of type ID marking	Refer Specification no. INV-RECD-LR04 REV 0 dtd. 02/01/2025 Clause no 1.8
9	Identifying part number(s) of the RECD	INV-500S-LR-04
10	Engine/ Engine Family for which the RECD is intended (application range)	Tested Engine Model : KTAA19-G10 Application Range: 230.1kW to 438.0kW (Refer Annexure-III)
11	PM Reduction Efficiency of the RECD	96.18%
12	Designed for fitment to an engine meeting the emissions requirements of (Regulation and Stage):	CPCB Stage -II
ICAT Ref No. 2024-1243; IOCS No: 180825		
Base Engine Type Approval Certificate number ARAI/MOEF/DGTA/CIPL-F43/2014-06		
Test Report Reference CT0EU 0001 dt. 06/01/2025		
AUTHORISED SIGNATORY		
SITARAM KASHYAP DEPUTY GENERAL MANAGER		SAURABH DALELA DIRECTOR

## Annexure-III

List of applicable engine(s) as per 771(E) dtd. 11.12.2013 and GSR 232(E) dtd. 31.03.2014 Phase II certified In -Use DG sets for corresponding RECD models of RECD Family.

S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
1	Tavarekere Post, Hosakote TQ, bangalore, Karnataka 562122	F11	TAD1650GE	402 kW	ARAI/MoEF/DGTA/IMP/VOLVO-F11/2014-01-E1, dt. 30.06.2015
2	M/s. Cummins India Ltd. Cummins India Office Campus, Tower A, 5th Floor, Survey No. 21, Balewadi, Pune 411045	D19	KTAA-19-G10	438 kW	ARAI/MoEF/DGTA/CILP-F43/2014- 06-E2, Dated: 26-Aug-2016
3	Ashok Leyland Ltd., No.1, Sardar Patel Road, Guindy, Chennai - 6000032	F40	AL8NTIDG6	223 kW	ARAI/MoEF/DGTA/ALL-F40/2015-11-E1, Dt. 02-09-2016
4	Cooper Corporation Pvt. Ltd Plot no. M60-1, Engine Division Post- Kodoli, Addl. MIDC Satara, 415003	F14	6G5D1C228IW	228 kW	ARAI/MoEF/DGTA/CCPL-F14/2017-07 Dt. 18-08-2017
5	Volvo India private Limited Volvo Penta. Yalachahally	F11	TAD1651GE	441 kW	ARAI/MoEF/DGTA/IMP/VOLVO F11/2014-01-E1, Dated 30-Jun-2015
6	Deutz Engines India Pvt. Ltd., 6, Ramabai Ambedkar Road, B Wing, 4th Floor, Heritage House, Pune 411001. Maharashtra, India	F1	TCD2013L064V	250.7 kW	ARAI/MoEF/DGTA/IMP/DEIPL-F1/2015-01, Dt. 11-09-2015
7	Tata Cummins Pvt. Ltd., Plot No. A-1/1, A- 1/2/1, Survadi, Phaltan, Satara, Maharashtra	F55	QSB 6.7-G17	229 kW	ARAI/MoEF/DGTA/TCL-F55/2019-09-E1 Dt. 21-05-2021
8	Greaves Cotton Ltd. Industrial Engines Unit, Plot No.J-2/A, MIDC Chikalthana, Aurangabad-431210	F321	D3V8TAG21	284 kW	ARAI/MoEF/DGTA/GCLP-F321/2016-13-E1, Dt. 18-08-2021
9		F500	12V14TAG21	284 kW	ARAI/MoEF/DGTA/GCLP-F500/2014-01-E4, Dt. 18-08-2021
10			12V14TAG23	444 kW	
11		F251	D3V6TAG21	227 kW	ARAI/MoEF/DGTA/GCLP-F251/2015-12-E1, Dt. 18-08-2021
12	Caterpillar India Pvt. Ltd, 7th Floor, International Tech Park , Taramani Road, Taramani, Chennai, Tamilnadu 600 113	F11	CAT-C13-2GP-1	367 kW	ARAI/MoEF/DGTA/CIPL-F11/2019- 06-E1 Dated: 28-Jun-2019
13	Taramani Road, Taramani, Chennai, Tamilnadu 600 113	F2	CAT-C15-2GP-1	454 kW	ARAI/MoEF/DGTA/CIPL-F2/2017- 04-E1, Dated: 7-May-2019
14	Kirloskar Oil Engines Ltd, D1, Kagal Hatkanangale, M.I.D.C. At & PO Talandage, Dist- Kolhapur	F114	6SL1500TAG3	228 kW	ARAI/MoEF/DGTA/KOEL-F114/2014-14-E1, Dt. 09-02-2016

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## Annexure-III Cont.

S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
15	Kilroskar Oil Engines Ltd. Khadki, Pune	F114	6SL1500TA G3	228 kW	ARAI/MoEF/DGTA/KOEL-F114/2014-14-E1, Dt. 09-02-2016
16		F115	DV8TA G1	294.2 kW	ARAI/MoEF/DGTA/KOEL-F115/2014-01-E1, Dt. 11-09-2019
17			DV8TA G2	345.6 kW	
18			DV10TA G1	447.1 kW	
19			DV8TA G3	360.3 kW	
20	M/s. Mahindra Heavy Engines Pvt. Ltd. Plot # A-1/1, Chakan Industrial Area, Phase-IV, Village Nigoje, Chakan, Taluka- Khed, Pune-410501	F23	mPower 63905G	287 kW	ARAI/MoEF/DGTA/MHEL-F23/2017-06 dt. 27.06.2017
21			mPower 63655G	269 kW	
22			mPower 63405G	250kW	
23			mPower 63105G	228 kW	
24	Cummins India Ltd. Kothrud, Pune 411038	F31	QSN14-G3	396 kW	ARAI/MoEF/DGTA/CILP-F31/2014- 04 Dated: 25-Mar-2014
25			QSN14-G1	344 kW	
26			QSN14-G2	363 kW	
27			QSN14-G4	319 kW	
28			QSN14-G5	346 kW	
29	Volvo india Private Limited, Volvo Penta. Yalachahally, Tavarekere Post, Hosakote TQ, bangalore, karnataka-562122	F13	TAD1351GE	286 kW	ARAI/MoEF/DGTA/IMP/VOLVO-F13/2014-03-E1, Dt. 30-06-2015
30			TAD1352GE	325 kW	
31			TAD1354GE	339 kW	
32			TAD1355GE	369 kW	
33	FMTU power system pvt.Ltd. Gat No. 450/1/B1 & 1/B3 Part, Indospace Industrial Park, Mahalunge Chakan, Maharashtra Pune 410 501.	F6	10V1600G10F/3B	407 kW	ARAI/MoEF/DGTA/FMTU- F6/2021-01 Dated: 07- June 2021
34			10V1600G20F/3B	448 kW	
35			10V1600G70F/3D	448 kW	
36	Volvo India Private Limited Volvo Penta. Yalachahally, Tavarekere Post, Hosakote TQ, Bangalore, Karnataka-562 122	F13	TAD1651GE	441 kW	ARAI/MoEF/DGTA/IMP/VOLVO-F11/2014-01-E1 Dated 30-Jun-2015
37			TAD1650GE	402 kW	
38	M/s. Volvo India Pvt Ltd. 102, Industrial area No-2, Pithampur-454775, Dist-Dhar, Madhya Pradesh	F14	TAD754GE	219 kW	ARAI/MoEF/DGTA/IMP/VOLVO-F14/2014-04-E1, Dt. 30-06-2015
39	Tata Cummins Pvt. Ltd., Telco Township, Jamshedpur, Jharkhand	F55	QSB 6.7-G17	229 kW	ARAI/MoEF/DGTA/TCL-F55/2019- 09-E1 Dated 21-May-2021
40	Perkins India Private Limited, 7th Floor, International Tech Park , Taramani Road, Taramani, Chennai-600113 Tamil Nadu, India	F11	Perkins-2206D- E13TAG3	367 kW	ARAI/MoEF/DGTA/PIPL-F11/2019- 09-E1 Dated 28-Jun-2019
41		F10	Perkins-2506D- E15TAG2	454 kW	ARAI/MoEF/DGTA/PIPL-F10/2017- 06-E1 Dated 7-May-2019
42	AB Volvo Penta Cologne Germany	F14	TAD754GE	219 kW	ARAI/MoEF/DGTA/IMP/VOLVO-F14/2014-04-E1 Dated 30-Jun-2015
<b>AUTHORISED SIGNATORY</b>					
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				Page 4 of 6	

## Annexure-III Cont.

S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
43	Ms. Shandong Heavy Industry India Pvt. Ltd. Add: Survey No. 280/281, Hlnjawadi Phsse II, Village Mann, Taluka Mulshi, Pune - 411057, Maharashtra, India	F11	6M19G250/5E3	235 kW	ICAT/MoEFCC/DGTA/SHIPL-F11/N-2137, Dt. 16-11-2018
44			6M19G275/5E3	255 kW	
45			6M19G320/5E3	290 kW	
46		F12	6M16G250/5E3	240 kW	ICAT/MoEFCC/DGTA/IMP/BWPCL-F12/N-2145, Dt. 19-11-2018
47		6M12G	6M12G6D2/5	235 kW	ICAT/MoEFCC/DGTA/SHIPL- 6M12G/P-0839 dt. 06.07.2020
48		6M21G	6M21G352/5e3	290 kW	ICAT/MoEFCC/DGTA/ SHIPL- 6M21G/P-1725 dt. 30.11.2020
49			6M21G500/5e3	410 kW	
50			6M21G440/5e3	365 kW	
51		6M21G5	6M21G2D2/5	365 kW	C O Q G 0651 dt. 02.08.2021
52		8M21G	8M21G688/5e3	460 kW	ICAT/MoEFCC/DGTA/SHIPL-8M21G/P-0400 Dt. 28-02-2020
53	Baudouin (Weifang) Power Co. Ltd. No. 197A, Fushou East Street, High-new Technology, Industrial Development Zone, Weifang, Shandong, China.	F11	6M19G250/5E3	235 kW	ICAT/MoEFCC/DGTA/IMP/BW PCL-F11 F11/N-2138, Dt. 16-11-2018
54			6M19G275/5e3	255 Kw	
55			6M21G352/5e3	290 kW	
56		F12	6M16G250/5E3	240 kW	ICAT/MoEFCC/DGTA/IMP/BWPCL-F12/N-2145, Dt. 19-11-2018
57		6M21G	6M21G352/5e3	290 kW	ICAT/MoEFCC/DGTA/ IMP/BWPCL- 6M21G/P-1726 dt. 30.11.2020
58			6M21G500/5e3	410 kW	
59			6M21G440/5e3	365 kW	
60		6M12G	6M12G6D2/5	235 kW	ICAT/MoEFCC/DGTA/IMP/BWPCL- 6M12G/P-0840, Dt. 06-07-2020
61		6M33D	6M33D506E310	460 kW	ICAT/MOEF/DGTA/IM P/BWPCL- 6M33D/M-1736-E01Dt. 05-06-2018
62		6M16G	6M16G4D2/5	290 kW	ICAT/MOEF/DGTA/IMP/BWPCL- 6M16G/P-0838-E01Dt. 06.07.2020
63	6M21G5	6M21G2D/5	365 kW	C O Q G 0652 dt. 02.08.2021	
64	8M21G	8M21G688/5e3	460 kW	ICAT/MOEFCC/DGTA/IMP/BWPCL- 8M21G/P-0401 dt. 28.02.2020	
65	M/s. Scania Commercial Vehicles India Pvt. Ltd., Plot No.63, (part), 64-66, 88-97, Narsapur, KIADB Industrial Area, Achhatanahalli Village, Narsapur Hobli, Kolar Taluk, District Kolar, Karnataka, PIN-563 130	F1	DC09 071A 226	226 kW	ARAI/MoEF/DGTA/IMP/SCANIA-F1/2015-01-E1 Dated 25-Jul-2017
66			DC09 071A 248	248 kW	
67			DC13071A 364	364 kW	
68			DC09 071A 267	267 kW	
69			DC16 071A 438	438 kW	
70			DC09 071A 289	289 kW	
71			DC13 071A 325	325 kW	

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## Annexure-III Cont.

S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
72	Greaves Cotton Ltd. Industrial Engines Unit, Plot No.J-2/A, MIDC Chikalthana, Aurangabad- 431210	F500	12V14TAG22	356 kW	ARAI/MoEF/DGTA/GCLP-F500/2014-01-E4, Dt. 18-08-2021
73			12V14TAG24	444 kW	ARAI/MoEF/DGTA/GCLP-F500/2014-01-E4, Dt. 18-08-2021
74	Volvo India private Limited Volvo Penta. Yalachahally	F11	TAD1651GE	441 kW	ARAI/MoEF/DGTA/IMP/VOLVO F11/2014-01-E1 NDated 30-Jun-2015
75	M/s. Cummins India Ltd. Cummins India Office Campus, Tower A, 5th Floor, Survey No. 21, Balewadi, Pune 411045	F50	QSL9 G16	249 kW	ARAI/MoEF/DGTA/CILP-F50/2017-27-E3 dt. 04.01.2019
76			QSL9 G15	298 kW	
77		F56	6L8.9TAAG-4	250 kW	ARAI/MoEF/DGTA/CILP-F56/2015-25-E2 dt. 07.02.2018
78		F43	KTAA19-G11	458 kW	ARAI/MoEF/DGTA/CILP-F43/2014-06-E2 Dated: 26-Aug-2016

Note: Engine details mentioned above are sourced from : [www.cpcb.nic.in](http://www.cpcb.nic.in)

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SITARAM KASHYAP DEPUTY GENERAL MANAGER		SAURABH DALELA DIRECTOR