

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 Vasthi Instruments Pvt. Ltd., Plot No. 21 & 22, Block No. 24, Phase -4, Auto Nagar, Guntur - 522001, Andhra Pradesh
2	Manufacturer's trade name or mark	M/s Vasthi Instruments Pvt. Ltd.
3	RECD family designation	FEVERECD-7200
4	RECD type/model designation	FEVERECD-7200-500 KVA
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. VIPL/RECD/28/10/24 dtd. 03/11/2024 Clause no 1.8
9	Identifying part number(s) of the RECD	FEVERECD-7200-500 KVA
10	Engine/ Engine-Family for which the RECD is intended (application range)	KTA-38-G17
11	PM Reduction Efficiency of the RECD	91.27%
12	Designed for fitment to an engine meeting the emissions requirements of (Regulation and Stage):	CPCB Stage -II
ICAT Ref No. 2024-0469; IOCS No: 177967		
Base Engine Type Approval Certificate number ARAI/MoEF/DGTA/CILP-F30/2018-30"		
Test Report Reference CT0ET 0455 dt. 26/11/2024		
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	Volvo India Private Limited, Volvo Penta. Yalachahally, Tavarekere Post, Hosakote TQ, Bangalore, Karnataka-562 122	F13	TAD1355GE	369 kW	ARAI/MoEF/DGTA/IMP/VOLVO-F13/2014-03-E1 Dated 30-Jun-2015
2			TAD1351GE	286 kW	
3			TAD1352GE	325 kW	
4			TAD1354GE	339 kW	
5	Cummins Indla Lmlted Dahanukar Colony, Kothrud, Pune-411038, Maharashtra, India	F33	QSK 19-G7	618 kW	ARAI/MoEF/DGTA/CILP-F33/2014-07-E1 Dt.26-3-2015
6		F30	KTA38-G11	797 kW	ARAI/MoEF/DGTA/CILP-F30/2018-30-E1, dt. 28-06-2019
7			KTA38-G10	736 kW	
8	Kirloskar Oil Engines Ltd. Khadki, Pune	F115	DV10TA G1	447.1 kW	ARAI/MoEF/DGTA/KOEL- F115/2014-01-E1 Dated 11-Sep-2019
9	FMTU power system pvt.Ltd. Gat No. 450/1/B1 & 1/B3 Part, Indospace Industrial Park, Mahalunge Chakan, Maharashtra Pune	F6	10V1600G10F/3B	407 kW	ARAI/MoEF/DGTA/FMTU- F6/2021-01 Dated: 07- June 2021
10			10V1600G20F/3B	448 kW	
11			10V1600G70F/3D	448 kW	
12	Cummins India Limited, Cummins India OfficeCampus Tower A, 5th Floor Survey No. 21,Balewadi, Pune411045	F54	KTA38-G12	797 kW	ARAI/MoEF/DGTA/CILP-F54/2015-24 Dated: 03-Dec-2015
13			KTA38-G13	736 kW	
14	Kirloskar Oil Engines Ltd. Khadki, Pune	F115	DV12TA G2	551.6 kW	ARAI/MoEF/DGTA/KOEL- F115/2014-01-E1 Dated 11-Sep-2019
15	Kirloskar Oil Engines Ltd. Khadki, Pune	F119	DV12ETA G11	663 kW	ARAI/MoEF/DGTA/KOEL- F119/2016-19-E2 Dated 29-Jan-2019
16			DV16ETA G2	799 kW	
17	Perkins India Private Limited, 7th Floor, International Tech Park , Taramani Road, Taramani, Chennai- 600113 Tamil Nadu, India	F14	4006D-E23TAG2S	732 kW	ARAI/MoEF/DGTA/PEL/-F14/2018-08-E2 Dated 16-May-2019
18			4006D-E23TAG2P	668 kW	
19			4008D-E30TAG2P	799 kW	
20			4008D-E30TAG1P	720 kW	
21	Cummins India Ltd. Kothrud, Pune 411038	F33	QSK 19-G7	618 kW	ARAI/MoEF/DGTA/CILP-F33/2014-07-E1Dated: 26-Mar-2015
22	FMTU power system pvt.Ltd. Gat No. 450/1/B1 & 1/B3 Part, Indospace Industrial Park, Mahalunge Chakan, Maharashtra Pune 410 501.	F6	12V1600G80F/3D	634 kW	ARAI/MoEF/DGTA/FMTU- F6/2021-01 Dated: 07- June 2021
23			12V1600G20F/3B	576kW	
24			10V1600G80F/3D	493kW	
25			12V1600G70F/3D	576kW	
26			12V1600G10F/3B	524kW	
27	Cummins Indla Lmlted Dahanukar Colony, Kothrud, Pune- 411038, Maharashtra, India	F33	QSK 19-G6	583 kW	ARAI/MoEF/DGTA/CILP-F33/2014-07-E1 Dt.26-3-2015
28		F57	KTAA19-G13	551 kW	ARAI/MoEF/DGTA/CILP-F57/2017-28E2 Dt. 07-10-2019
29			KTAA19-G12	532 kW	

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S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
30	M/s. Baudouin (Weifang) Power Co. Ltd., Add : No. 197A, Fushou East Street., High-new Technology, Industrial Development Zone, Weifang, Shandong, China.	6M33D	6M33D660E310	660kW	ICAT/MOEF/DGTA/IMP/BWPCL-6M33D/M- 1736-E01 dt. 05.06.2018
31			6M33D633E310	575kW	
32		8M21G	8M21G688/5e3	550 kW	ICAT/MoEFCC/DGTA/IMP/BWPCL-8M21G/P-0401 Dt. 28-02-2020
33	Kirloskar Oil Engines Ltd. Khadki, Pune	F115	DV12TA G2	551.6 kW	ARAI/MoEF/DGTA/KOELF115/2014-01- E1 Dt. 11-09-2019
34	Kirloskar Oil Engines Ltd. Khadki, Pune	F115	DV12TA G2	551.6 kW	ARAI/MoEF/DGTA/KOEL- F115/2014-01-E1 Dated 11-Sep-2019
35	Volvo India Private Limited Volvo Penta.Yalachahaly, Tavarekere Post, Hosakote TQ Bangalore, Karnataka- 562122	F12	TED1653GE	564 kW	ARAI/MoEF/DGTA/IMP/VOLVO-F12/2014-02-E1 Dt 30.06.2015
36		F12	TED1652GE	522 kW	ARAI/MoEF/DGTA/IMP/VOLVO-F12/2014-02-E1 Dt 30.06.2015
37	Caterpillar India Pvt. Ltd 7th Floor International Tech Park , Taramani Road, Taramani, Chennai, Tamilnadu 600 113	F12	CAT-C18-2GP-1	540 kW	ARAI/MoEF/DGTA/CIPL-F12/2017-05-E2 Dt. 28-06-2019
38		F11	CAT-C13-2GP-1	367 kW	ARAI/MoEF/DGTA/CIPL-F11/2019-06-E1 Dated: 28-Jun-2019
39		F2	CAT-C15-2GP-1	454kW	ARAI/MoEF/DGTA/CIPL-F2/2017- 04-E1 Dated: 7-May-2019
40	Perkins India Private Limited 7th Floor, International Tech Park , Taramani Road, Taramani, Chennai 600113 Tamil Nadu, India	F12	Perkins-2806DE18TAG1A	540 kW	ARAI/MoEF/DGTA/PIPL/F12/2017-07-E2 Dt 28-06-2019
41		F11	Perkins-2206D- E13TAG3	367 kW	ARAI/MoEF/DGTA/PIPL-F11/2019- 09-E1 Dated 28-Jun-2019
42	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	DC16 071A 480	480 kW	ARAI/MoEF/DGTA/IMP/SCANIA-F1/2015-01-E1 Dated 25-Jul-2017
43	Cummins India Limited, Cummins India Office Campus Tower A, 5th Floor Survey No. 21, Balewadi, Pune 411045	F50	QSL9 G15	298 kW	ARAI/MoEF/DGTA/CIPL-F50/2017-27-E3 Dated: 4-Jan-2019
44	Greaves Cotton Ltd. Industrial Engines Unit, Plot No.J-2/A, MIDC Chikalhana, Aurangabad-431210	F321	12V14TAG23	444 kW	ARAI/MoEF/DGTA/GCLP- F500/2014-01-E4 Dated 18-Aug-2021
45		F500	12V14TAG24	444 kW	ARAI/MoEF/DGTA/GCLP- F500/2014-01-E4 Dated 18-Aug-2021

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S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
46	Cummins India Ltd. Kothrud, Pune 411038	F31	QSN14-G3	396 kW	ARAI/MoEF/DGTA/CILP-F31/2014-04 Dated: 25-Mar-2014
47			QSN14-G1	334 kW	
48			QSN14-G2	363 kW	
49			QSN14-G4	319 kW	
50			QSN14-G5	346 kW	
51	Volvo India Private Limited, Volvo Penta. Yalachahally, Tavarekere Post, Hosakote TQ, Bangalore, Karnataka-562 122	F13	TAD1355GE	369 kW	ARAI/MoEF/DGTA/IMP/VOLVO-F13/2014-03-E1 Dated 30-Jun-2015
52			TAD1351GE	286 kW	
53			TAD1352GE	325 kW	
54			TAD1354GE	339 kW	
55	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	DC13071A 364	364 kW	ARAI/MoEF/DGTA/IMP/SCANIA-F1/2015-01-E1 Dated 25-Jul-2017
56			DC09 071A 289	289 kW	
57			DC13 071A 325	325 kW	
58	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 Dated 27-Jun-2017
59	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 Dated 18-Aug-2021
60	Kirloskar Oil Engines Ltd. Khadki, Pune	F115	DV8TA G1	294.2 kW	ARAI/MoEF/DGTA/KOEL- F115/2014-01-E1 Dated 11-Sep-2019
61			DV8TA G2	345.6 kW	
62			DV8TA G3	360.3 kW	
63	Cummins India Limited, Cummins India Office Campus Tower A, 5th Floor Survey No. 21,Balewadi, Pune 411045	F43	KTAA19-G11	458 kW	ARAI/MoEF/DGTA/CILP-F43/2014-06-E2 Dated: 26-Aug-2016
64			KTAA19-G10	438 kW	
65			KTAA19-RG10	438 kW	
66	Volvo India Private Limited, Volvo Penta. Yalachahally, Tavarekere Post, Hosakote TQ, Bangalore, Karnataka-562 122	F11	TAD1651GE	441 kW	ARAI/MoEF/DGTA/IMP/VOLVO-F11/2014-01-E1 Dated 30-Jun-2015
67			TAD1650GE	402 kW	
68	Perkins India Private Limited, 7th Floor, International Tech Park , Taramani Road, Taramani, Chennai- 600113 Tamil Nadu, India	F10	Perkins-2506D-E15TAG2	454 kW	ARAI/MoEF/DGTA/PIPL-F10/2017- 06-E1 Dated 7-May-2019

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S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number	
69	M/s. Baudouin (Weifang) Power Co. Ltd., Add : No. 197A, Fushou East Street., High-new Technology, Industrial Development Zone, Weifang, Shandong, China.	6M21G	6M21G352/5e3	290 kW	ICAT/MoEFCC/DGTA/ IMP/BWPCL-6M21G/P-1726 dt. 30.11.2020	
70			6M21G440/5e3	365 kW		
71		F11	6M19G320/5E3	290kW	ICAT/MoEFCC/DGTA/ IMP/BWPCL-6M16G/P-0838 dt. 06.07.2020	
72		6M16G	6M16G4D2/5	290 kW		
73		6M21G5	6M21G2D2/5	365kW		
74			6M33D	6M33D506E310	460 kW	ICAT/MOEF/DGTA/IM P/BWPCL-6M33D/M-1736-E01Dt. 05-06-2018
75			8M21G	8M21G688/5e3	460 kW	ICAT/MoEFCC/DGTA/IMP/BWPCL-8M21G/P-0401 Dt. 28-02-2020
76	M/s. Shandong Heavy Industry India Pvt. Ltd., Add: Survey No. 280/281, Hinjawadi Phase II, Village Mann, Taluka Mulshi, Pune - 411057, Maharashtra, India	6M21G	6M21G352/5e3	290 kW	ICAT/MoEFCC/DGTA/ SHIPL-6M21G/P- 1725 dt. 30.11.2020	
77			6M21G440/5e3	365 kW		
78		F11	6M21G500/5e3	410 kW	ICAT/MoEFCC/DGTA/ SHIPL- F11/N-2137 dt. 16.11.2018	
79			6M21G440/5e3	365 kW		
80			6M19G320/5E3	290 kW		
81			6M16G	6M16G4D2/5	290 kW	ICAT/MoEFCC/DGTA/ SHIPL-6M16G/P- 0837 dt. 06.07.2020
82			6M21G5	6M21G2D2/5	365kW	ICAT/MoEFCC/DGTA/SHIPL- 6M21G/P-1725 dt. 30.11.2020
83			8M21G	8M21G688/5e3	460 kW	ICAT/MoEFCC/DGTA/SHIPL-8M21G/P- 0400 Dt. 28-02-2020
84		8M21G688/5e3		550kW		
85	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	DC16 071A 438	438 kW	ARAI/MoEF/DGTA/IMP/SCANIA-F1/2015-01-E1 Dated 25-Jul-2017	
86			DC09071A364	364 kW		
87			DC09071A4248	248 kW		
88			DC16 071A 480	438 kW		
89	Kirloskar Oil Engines Ltd. Khadki, Pune	F115	DV10TA G1	447.1 kW	ARAI/MoEF/DGTA/KOEL- F115/2014-01-E1 Dated 11-Sep-2019	

Note: Engine details mentioned above are sourced from : www.cpcb.nic.in

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SITARAM KASHYAP DEPUTY GENERAL MANAGER		SAURABH DALELA DIRECTOR