

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	RECD types within the RECD family (if applicable)	
		Type 1	Type 2	Type 3
1	Manufacturing Plant address	M/s Maxmoc Motor Works India Pvt. Ltd. S.F. No. 3/94, N. Panjampatty, , NH44, Dindigul to Madurai Main Road, Alamarathupatti PO, Dindigul - 624303		
2	Manufacturer's trade name or mark	M/s Maxmoc Motor Works India Pvt. Ltd.		
3	RECD family designation	DAT-SAT-Filter		
4	RECD type/model designation	MMW/DAT-SAT.9	MMW/DAT-SAT.3	MMW/DAT-SAT.4
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. MMW/RECD/01/02/25 dtd. 01/02/2025 Clause no 1.8		
9	Identifying part number(s) of the RECD	MMW/DAT-SAT.9 Series 3000	MMW/DAT-SAT.3 Series 3000	MMW/DAT-SAT.4 Series 3000
10	Engine/ Engine Family for which the RECD is intended (application range)	Tested Engine Model: 6CTAA-8.3-G4 Application Range: 70.72kW to 231.0kW (Refer Annexure- III)		
11	PM Reduction Efficiency of the RECD	97.47%		
12	Designed for fitment to an engine meeting the emissions requirements of (Regulation and Stage):	CPCB Stage -I		
ICAT Ref No.		2024-2311; IOCS No: 185252		
Base Engine Type Approval Certificate number		ARAI/MOEF/DGTA/CIL-F17/2004-25		
Test Report Reference		CT0EU 0168 dt. 20/03/2025		
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List of applicable engine(s) as per GSR 371(E) dtd. 17.05.2002, GSR 520(E) dtd. 01.07.2003 and GSR 448(E) dtd. 12.07.2004 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	KOEL, Khadki, Pune	F2	6R1080T	93.3 kW	ARAI/MOEF/DGTA/KOEL-F2/2003-001, dt.28-03-2003
2	KOEL, Khadki, Pune	F3	4R1040TA	77.2 kW	ARAI/MOEF/DGTA/KOEL-F3/2003-003, dt. 28-03-2003
3			6R1080TA	113.2 kW	
4	Telco, Pune	F1	697TC54	69.1 kW	ARAI/MOEF/DGTA/TELCO-F1/2003/009, dt. 31-03-2003
4	Greaves Ltd, Ch'wad, Pune	F4	TD2V6	114.6 kW	ARAI/MOEF/DGTA/GLP-F4/2003-14, dt. 23-05-2003
5	Cummins India Ltd, Daman	F6	6BTA5.9G1I	92.4 kW	ARAI/MOEF/DGTA/CIL-F6/2003-15, dt. 30-05-2003
6	Cummins India Ltd, Daman	F5	6BT5.9G1	78.2 kW	ARAI/MOEF/DGTA/CIL-F5/2003-16, dt. 30-05-2003
7	Greaves Ltd, Ch'wad, Pune	F9	4YDC MK3	92.5 kW	ARAI/MOEF/DGTA/GLP-F9/2003-20, dt. 13-06-2003
8	Greaves Ltd, Ch'wad, Pune	F8	4YDX MK3	68.4 kW	ARAI/MOEF/DGTA/FLP-F8/2003-21, dt. 18-06-2003
9	Greaves Ltd, Ch'wad, Pune	F7	6YDAX MK35P	81.19 kW	ARAI/MOEF/DGTA/GLP-F7/2003-30, dt. 03-09-2003
10	Bharat Earth Movers Ltd., Mysore	F1	BS6D105-1	87 kW	ARAI/MOEF/DGTA/BEML-F1/2003-38, dt. 05-01-2004
11	Greaves Cotton Ltd, Pune	F10	TD4L4	113.9 kW	ARAI/MOEF/DGTA/GCLP-F10/2004-06, dt 26-02-2004
12	Greaves Cotton Ltd, Pune	F9	4YDCMK3	92.6 kW	ARAI/MOEF/DGTA/GCLP-F9/2004-013, dt. 20-03-2004
13			6YDCMK3	114.3 kW	
14	Greaves Cotton Ltd. Pune	F8	4YDXMK3	68.4 kW	ARAI/MOEF/DGTA/GCLP-F8/2004-017, dt. 07-05-2004
15	Kirloskar Oil Engines Ltd. Khadki, Pune	F2	6R1080T	93.3 kW	ARAI/MOEF/DGTA/KOEL-F2/2004-020, dt. 17-04-2004
16	Kirloskar Oil Engines Ltd. Khadki, Pune	F3	4R1040TA 6R1080TA	76.7 kW 113.2 kW	ARAI/MOEF/DGTA/KOEL-F3/2004-021, dt. 17-06-2004
17	Greaves Cotton Ltd., Pune	F6	6YDAX	74.5 kW	ARAI/MOEF/DGTA/GCLP-F6/2004-022, dt. 17-06-2004
18	BEML, Mysore	F1	BS6D105G6	87 kW	ARAI/MOEF/DGTA/BEML-F1/2004-043, dt. 11-08-2004
19			BS6D105G5	78 kW	
20			BS6D105G4	72 kW	
21			BS6D105G3	70 kW	
22			BS6D105G2	68 kW	

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S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
23	Greaves Cotton Ltd., Pune	F10	TD4L4	112.74 kW	ARAI/MOEF/DGTA/GCLP-F10/2005-29, dt. 27-09-2005
24	Greaves Cotton Ltd., Pune	F10	TD4L4P	114.7 kW	ARAI/MOEF/DGTA/GCLP-F10/2006-022, dt. 20-07-2006
25	Greaves Cotton Ltd., Pune	F10	TD4L4P	114.7 kW	ARAI/MOEF/DGTA/GCLP-F10/2006-022, dt. 20-07-2006
26	Kaytee Switchgear Ltd., Hubli	F7	6KSWATC-105	110 kW	ARAI/MOEF/DGTA/KSL-F7/2006-039, dt. 05-09-2007
27	Ashok Leyland, Hosur	F12	AL412TGI	81.9 kW	ARAI/MOEF/DGTA/ALH-F12/2007-012, dt. 28-02-2007
28	Greaves Cotton Ltd., Chinchwad, Pune	F24	4G11T-P	68 kW	ARAI/MOEF/DGTA/GCLP-F24/2007-023, dt. 29-06-2007
29	Greaves Cotton Ltd., Chinchwad, Pune	F6	6YDAX	76 kW	ARAI/MOEF/DGTA/GCLP-F6/2007-027, dt. 16-07-2007
30	Greaves Cotton Ltd., Chinchwad, Pune	F7	6YDAXMK3SP	81.19 kW	ARAI/MOEF/DGTA/GCLP-F7/2007-028, dt. 16-07-2007
31	Greaves Cotton Ltd., Chinchwad, Pune	F9	4YDCMK3	93.1 kW	ARAI/MOEF/DGTA/GCLP-F9/2007-035, dt. 31-07-2007
32			6YDCMK3	114.73 kW	
33	Greaves Cotton Ltd., Chinchwad, Pune	F25	4G11TA-P	93 kW	ARAI/MOEF/DGTA/GCLP-F25/2007-074, dt. 17-12-2007
34			4G11TA	76.5 kW	
35	Mahindra & Mahindra Ltd., FES, Kandivli, Mumbai	F14	41425GC	95 kW	ARAI/MOEF/DGTA/IMP/M&M-F14/2008-011, dt. 25-11-2008
36	Mahindra & Mahindra Ltd., FES, Kandivli, Mumbai	F17	41225 GC	82 kW	ARAI/MOEF/DGTA/IMP/M&M-F17/2008-013, dt. 15-05-2008
37	Kirloskar Oil Engines Ltd., Khadki, Pune	F3	4R1040TA	77.2 kW	ARAI/MOEF/DGTA/KOEL-F3/2008-034, dt. 09-07-2008
38			6R1080TA	113.2 kW	
39	Kirloskar Oil Engines Ltd., Khadki, Pune	F3	4R1040TA	77.2 kW	ARAI/MOEF/DGTA/KOEL-F3/2008-034, dt. 09-07-2008
40	Ashok Leyland Ltd., Chennai	F17	AL6DTI G1	91 kW	ARAI/MOEF/DGTA/ALL-F17/2008-041, dt. 29-09-2008
41	Ashok Leyland Ltd., Chennai	F18	AL6DTI G2	114 kW	ARAI/MOEF/DGTA/ALL-F17/2008-042, dt. 29-09-2008
42	Lombardini India Pvt. Ltd., Aurangabad	F13	WD12D320 E21	228 kW	ARAI/MOEF/DGTA/LIPL-F13/2009-033
43	Ashok Leyland Ltd., Chennai	F19	AL4DTIG2	77 kW	ARAI/MOEF/DGTA/ALL-F19/2008-062, dt. 03-10-2008
44			AL4DTIF1	70 kW	
45	Cummins India Ltd., Daman	F6	6BTA5.9-G5	93 kW	ARAI/MOEF/DGTA/CIL-F6/2003-15-E1, dt. 17-02-2008
46			6BTA5.9G2I	114 kW	

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S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
47	SuperNova Engineers Ltd., Ahmedabad	F4	YC6108ZD	80 kW	ARAI/MOEF/DGTA/IMP/SEL-F4/2008-073, dt. 23-12-2008
48			YC6108ZLD	98 kW	
49	Greaves Cotton Ltd., Pune	F24	4G11TP	69 kW	ARAI/MOEF/DGTA/GCLP-F24/2009-004 dt. 03-09-2004
50	Shandong Weichai Huafeng Power Co. Ltd. China	F5	R6105ZLD1-P1	84 kW	ARAI/MOEF/DGTA/IMP/HUA-F5/2009-022, dt. 11-06-2009
51	Shandong Weichai Huafeng Power Co. Ltd. China	F10	SC4H180D2	120 kW	ARAI/MOEF/DGTA/IMP/HUA-F10/2009-027, dt. 11-06-2009
52			SC4H160D2	105 kW	
53	Indo Power Generation	F1	4045HF158	100 kW	ARAI/MOEF/DGTA/IMP/IPGPL-F1/2009-030, dt. 24-06-2009
54			4045TF158	70 kW	
55			4045TF258	83 kW	
56			6068TF158	105 kW	
57	Kirloskar Electric Co. Ltd., Hubli	F10	4KSWITC110	84 kW	ARAI/MOEF/DGTA/KECL-F10/2009-032, dt. 15-07-2009
58	Greaves Cotton Ltd., Pune	F24	4G11TG2	69.4 kW	ARAI/MOEF/DGTA/GCLP-F24/2009-038, dt. 20-08-2009
59	Greaves Cotton Ltd., Pune	F25	4G11TAG1	77.2 kW	ARAI/MOEF/DGTA/GCLP-F25/2009-039, dt. 20-08-2009
60			4G11TAG2	93.4 kW	
61	DEUTZ AG Ottostrasse 1, D-51149 Koln (Porz-Eil)/Germany	F4	BF4M2012C	74.9 kW	ARAI/MoEF/DGTA/IMP/DEU-F4/2010-024, dt. 19-03-2010
62	Weichai Weifang Dutz Engines Co. Ltd.	F4	WP4D115E20	85 kW	ARAI/MOEF/IMP/DGTA/WWD-F4/2010-070, dt. 09-06-2010
63	Mahindra & Mahindra Ltd., Farm Division, Kandivali (E), Mumbai-400	F33	41145 GM	76.5 kW	ARAI/MoEF/DGTA/M&M/F33/2010-087, dt. 14-10-2010
64	Yuchai Machinery Co. Ltd. 88, Tianqiao West Road, Yulin, Guangxi,	F8	YC6B155L-D20	112 kW	ARAI/MoEF/DGTA/IMP/SEL-F8/2010-093, dt. 21-01-2011
65	Yuchai Machinery Co. Ltd. 88, Tianqiao West Road, Yulin, Guangxi, P.R.C. China	F2	YC6108ZD	84 kW	ARAI/MoEF/DGTA/IMP/SEL-F2/2010-103, dt. 21-01-2011
66	Greaves Cotton Ltd., (D.E.U.), Chinchwad, Pune 411 019	F32	4G11TW1	77.2 kW	ARAI/MoEF/DGTA/GCLP- F32/2011-001, dt. 29-Feb-2011
67	Cummins India Ltd., Low Horsepower Business Unit, 19-25A, Silver Industrial Estate, Bhimpore, Daman- 396210 (India)	F5	6BT5.9G1	78 kW	ARAI / MoEF / DGTA / CILP - F5 / 2011-004, dt. 23-02-2011
68	Shanghai Diesel Engine Co. Ltd., 2636 JunGong Road, Shanghai,	F7	SC5D145D	95 kW	ARAI/MoEF/DGTA/IMP/SDEC-F7/2011-022, dt. 27-07-2011

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69	Ashok Leyland Limited, Ennore, Tamilnadu Ashok Leyland Limited, Hosur, Tamilnadu Ashok Leyland Limited, Pant Nagar, Uttarakhand	F18	AL6DTI G2	114 kW	ARAI/MoEF/DGTA/ALL/F18/2011-031, dt. 13-07-2011
70	Mahindra Navistar Engines Pvt. Ltd., Pune	F5	X12-14-125KVA-Mech	112.5 kW	ARAI/MoEF/DGTA/MNEPL-F5/2011-036, dt. 29-09-2011
71			X12-14-100 KVA-Mech	90 kW	
72			X12-14-82.5 KVA-Mech	74.25 kW	
73			X12-14-75 KVA-Mech	67.5 kW	
74	Kirloskar Electric Company Limited, Unit 14, Gokul Road, Hubli 580030	F12	6KSWTC105	84 kW	ARAI/MoEF/DGTA/KECL-F12/2011-038, dt. 29-08-2011
75	Mahindra & Mahindra Limited, Akurli Road, Kandivali (E), Mumbai 400101, India	F14	41425 GC	95 kW	ARAI/MoEF/DGTA/IMP/M&M-F14/2011-039, dt. 29-09-2011
76	Kirloskar Oil Engine Limited, Khadki, Pune.	F37	4K1080TA1	114.7 kW	ARAI/MoEF/DGTA/KOEL-F37/2011-043, dt. 29-09-2011
77	Empower Gensets Pvt Ltd., Survey No. 36/1, Pisoli Road, Pisoli, Taluka Haveli, Ditriect Pune - 411028, India.	F2	BF4M1013FC	106 kW	ARAI/MoEF/DGTA/IMP/EGPL-F2/2011-044, dt. 29-09-2011
78	Mahindra & Mahindra Limited, Akurli Road, Kandivali (E), Mumbai 400101, India	F17	41225 GC	82 kW	ARAI/MOEF/DGTA/IMP/M&M-F17/2008-012- E2, dt. 16-02-2011
79	Mahindra & Mahindra Limited, Akurli Road, Kandivali (E), Mumbai 400101, India	F34	61140 GM	76.5 kW	ARAI/MOEF/DGTA/M&M/F34/2012-002, dt. 29-02-2012
80	VE Commercial Vehicle Ltd., 102, Industrial area No-2, Pithampur-454775, Dist-Dhar, Madhya Pradesh	F2	EE683TCI	77 kW	ARAI/MoEF/DGTA/VECVL-F2/2012-008, dt. 29-03-2012
81	Cooper Corporation Pvt Ltd,MIDC,Satara	F4	3B2D1C85	85 kW	ARAI/MoEF/DGTA/CCPL-F4/2012-023, dt. 28-08-2012
82			4B2D1C113	100 kW	
83			4B2D1C100	113 kW	
84			3B2D1C75	75 kW	
85	VE Commercial Vehicle Ltd., 102, Industrial area No-2, Pithampur-454775, Dist-Dhar, Madhya Pradesh	F2	EE683TCI 100 KVA	94 .1 kW	ARAI/MoEF/DGTA/VECVL-F2/2012-027, dt. 11-10-2012
86	EE683TCI 82.5 KVA		77 kW		
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S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
87	Mahindra & Mahindra Limited, Akurli Road, Kandivali (E), Mumbai 400101, India	F63	61375 GM-C2	91.6 kW	ARAI/MOEF/DGTA-II/M&M-F63/2012-028, dt. 15-10-2012
88	Greaves Cotton Ltd., (D.E.U.), Chinchwad, Pune	F28	4G11TAG3	114 kW	ARAI/MoEF/DGTA/GCLP-F28/2009-063-E1, dt. 02-01-2013
89	VE Commercial Vehicle Ltd., 102, Industrial area No-2, Pithampur-454775, Dist-Dhar, Madhya Pradesh	F5	EE683TCI 82.5KVA CPCB-II	77 kW	ARAI/MoEF/DGTA-II/VECV-F5/2013-006, dt. 20-02-2013
90	Mahindra Navistar Engines Pvt. Ltd., Pune, Maharashtra - 412111	F8	MaxxForce 7.2 P Mec CPCB I 125kVA	114.7 kW	ARAI/MoEF/DGTA/MNEPL-F8/2013-008, dt. 01-01-2013
91			MaxxForce 7.2 P Mec CPCB I	77 kW	
92	Avtec Limited, Sector-III, Sagore, Pithampur Industrial Area, Dist. Dhar (M.P.) 454 774 & M/s. Avtec Limited, Plot No. 1 & 2, Sector B, Nimpura Industrial Estate, Kharagpur - 721301 (W.B)	F8	AGDH6408215	84.4 kW	ARAI/MOEF/DGTA/AVTEC-F8/2013-022, dt. 06-03-2022
93	Mahindra Navistar Engines Pvt. Ltd., Pune, Maharashtra - 412111	F10	MaxxForce 4.8 P Mech CPCB I 100 KVA	93 kW	ARAI/MoEF/DGTA/MNEPL-F10/2013-024, dt. 07-03-2013
94			MaxxForce 4.8 P Mech CPCB I 82.5 KVA	78 kW	
95	Mahindra & Mahindra Limited, Akurli Road, Kandivli (E), Mumbai 400101, India	F39	2205 GM-C2	93 kW	ARAI/MOEF/DGTA-II/M&M-F39/2013-026, dt. 07-03-2013
96	Greaves Cotton Ltd., (D.E.U.), Chinchwad, Pune	F28	4G11TAG3	114 kW	ARAI/MoEF/DGTA/GCLP-F28/2009-063-E2, dt. 17-04-2013
97	VE Commercial Vehicle Ltd., 102, Industrial area No-2, Pithampur-454775, Dist-Dhar, Madhya Pradesh	F6	EE683TCI 82.5 kVA CPCB II	74.5 kW	ARAI/MoEF/DGTA-II/VECV-F6/2013-033, dt. 06-05-2013
98	Kirloskar Oil Engine Limited, Khadki, Pune.	F111	4R1040TA G1	74.9 kW	ARAI/MoEF/DGTA-II/KOEL-F111/2013-042, dt. 30-05-2013
99	Ashok Leyland Ltd., Chennai	F25	AL4CTIDG3	78 kW	ARAI/MoEF/DGTA-II/ALL-F25/2013-046, dt. 11-07-2013
100			AL4CTIDG4	94 kW	
101			AL6DTIDG1	94 kW	
90	Mahindra & Mahindra Limited, Akurli Road, Kandivali (E), Mumbai 400101, India.	F46	61695 GM-C2	113.34 kW	ARAI/MoEF/DGTA-II/M&M-F46/2013-048, dt. 12-07-2013
91	Kirloskar Oil Engine Limited, Khadki, Pune.	F112	4K1080TAG2	114.7 kW	ARAI/MoEF/DGTA-II/KOEL-F112/2013-054, dt. 20-08-2013
92			4K1080TAG1	114.7 kW	
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S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
93	Mahindra & Mahindra Limited, Akurli Road, Kandivali (E), Mumbai 400101, India.	F45	41035 GM-C2	68.9 kW	ARAI/MoEF/DGTA-II/M&M-F45/2013-050, dt. 25-07-2013
94	Deutz Engines India Pvt. Ltd, Pune.	F3	BF4M1013FC-D20C101	101 kW	ARAI/MoEF/DGTA/IMP/DEIPL-F3/2013-056, dt. 01-09-2013
95			BF4M1013FC-D20C106	106 kW	
96	Cummins India Ltd, Power Generation Business Unit.DTA Unit Gat No-311/B At Post Kasar,Amboli Taluka Mulshi, Pirangut-412 111, District Pune,Maharashtra,India	F46	4BTAA3.9G3	74 kW	ARAI/MoEF/DGTA-II/CILP-F46/2013-059, dt. 09-01-2014
97	Mahindra Heavy Engines Pvt. Ltd., Chakan,Pune- 410 501	F13	125kVA Mech.CPCB-I	114.7 kW	ARAI/MoEF/DGTA/MHEPL-F13/2013-072, dt. 24-10-2013
98	Mahindra Heavy Engines Pvt. Ltd., Chakan,Pune- 410 501	F14	100kVA Mech.CPCB-I	93 kW	ARAI/MoEF/DGTA/MHEPL-F14/2013-073, dt. 24-10-2013
99			82.5kVA Mech.CPCB-I	78 kW	
100	Cummins India Ltd, Power Generation Business Unit. DTA Unit Gat No-311/B At Post Kasar, Amboli Taluka Mulshi, Pirangut-412 111, District Pune, Maharashtra,India	F47	4BTAA3.9-G4	82 kW	ARAI/MoEF/DGTA-II/CILP-F47/2013-078, dt. 09-01-2014
101	VE Commercial Vehicle Ltd., 102, Industrial area No-2, Pithampur-454775, Dist-Dhar, Madhya Pradesh	F7	EE694TCI 100KVA CPCB-II	95 kW	ARAI/MoEF/DGTA-II/VECVL-F7/2014-005, dt. 28-01-2014
102		F8	EE694TCI 100KVA VE CPCB-II	95 kW	ARAI/MoEF/DGTA-II/VECVL-F8/2014-006, dt. 07-02-2014
103	Greaves Cotton Ltd., (D.E.U.), Chinchwad, Pune	F80	4G11TAG22	74.5 kW	ARAI/MoEF/DGTA-II/GCLP-F80/2014-009, dt. 28-02-2014
104	Greaves Cotton Ltd., (D.E.U.), Chinchwad, Pune	F100	4G11TAG23	93 kW	ARAI/MoEF/DGTA-II/GCLP-F100/2014-010, dt. 28-02-2014
105	Mahindra & Mahindra Limited, Akurli Road, Kandivali (E), Mumbai 400101, India	F46	61375 GM-C2	91.6 kW	ARAI/MOEF/DGTA/M&M-F46/2014-012, dt. 19-06-2014
106			61695 GM-C2	113.34 kW	
107	Mahindra Navistar Engines Pvt. Ltd., Pune, Maharashtra - 412111	F7	MaxxForce 7.2 P Mec CPCB I 200kVA	180 kW	ARAI/MoEF/DGTA/MNEPL-F7/2013-007
108		F6	MaxxForce 7.2 P Mec CPCB I 180kVA	163 kW	
109	Cummins India Ltd. Kothrud, Pune 411038	F41	QSB 6.7- G12	191.1 kW	ARAI/MoEF/DGTA-II/CILP-F41/2013-002,
110			QSB 6.7 - G11	174.5kW	
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S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
111	Cummins India Ltd. Kothrud, Pune 411038	F40	QSB 5.9 -G2	153.6 kW	ARAI/MoEF/DGTA-II/CILP-F40/2013-001
112			QSB 5.9 -G1	137.2kW	
113			QSB 5.9 -G3	124.5kW	
114	Cummins India Ltd. Kothrud, Pune 411038	F32	QSL9-G7.3	235kW	ARAI/MoEF/DGTA-II/CILP-F32/2012-029
115	Cummins India Ltd, Pune	F1	6CT 8.3-G2-I	130.8 kW	ARAI/MOEF/DGTA/CIL-F1/2003-005
116	Kirloskar Oil Engine Limited, Khadki, Pune.	F113	6K1080TA G2	147 kW	ARAI/MoEF/DGTA-II/KOEL-F113/2014-003
117	Cummins India Ltd, Pune	F2	6CTA-8.3-G1-I	148.4 kW	ARAI/MOEF/DGTA/CIL-F2/2003-006
118			6CTA-8.3-G2-I	163 kW	
119			6CTAA-8.3-G1-I	183 kW	
120	Kirloskar Oil Engine Limited, Khadki, Pune.	F114	6SL1500TAG3	228 kW	ARAI/MoEF/DGTA-II/KOEL-F114/2014-001
121			6SL1500TAG2	183 kW	
122	Mahindra Heavy Engines Pvt. Ltd., Chakan,Pune- 410 501	F12	200kVA Mech.CPCB-I	180 kW	ARAI/MoEF/DGTA/MHEPL-F12/2013-071
123			180kVA Mech.CPCB-I	163 kW	
124	Mahindra Heavy Engines Pvt. Ltd., Chakan,Pune- 410 501	F11	200kVA Elec.CPCB-I	180 kW	ARAI/MoEF/DGTA/MHEPL-F11/2013-070
125			180kVA Elec.CPCB-I	181 kW	
126	Ashok Leyland Ltd., Chennai	F27	AL11TA G2	178.8 kW	ARAI/MoEF/DGTA/ALL-F27/2013-057
127			178.8 kW	163 kW	
128	Avtec Limited, Sector-III, Sagore, Pithampur Industrial Area, Dist. Dhar (M.P.) 454 774 & M/s. Avtec Limited, Plot No. 1& 2, Sector B, Nimpura Industrial Estate, Kharagpur - 721301	F9	AGDH7012515	127 kW	ARAI/MOEF/DGTA/AVTEC-F10/2013-021
129			AGDH6710015	110 kW	
130	Shanghai Diesel Engine Co. Ltd., 2636 JunGong Road, Shanghai, China	F9	SC9D340D2	228 kW	ARAI/MoEF/DGTA/IMP/SDEC-F9/2013-017
131	Mahindra Navistar Engines Pvt. Ltd., Pune, Maharashtra - 412111	F9	MaxxForce 7.2 P Mech CPCB II 160 KVA	146.13 kW	ARAI/MoEF/DGTA/MNEPL-F9/2013-016
132			MaxxForce 7.2 P Mech CPCB II 125 KVA	114.7 kW	

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S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
133	Mahindra Navistar Engines Pvt. Ltd., Pune, Maharashtra - 412111	F8	MaxxForce 7.2 P Mec CPCB I 160kVA	146 kW	ARAI/MoEF/DGTA/MNEPL-F8/2013-008
134			MaxxForce 7.2 P Mec CPCB I 140kVA	146.5 kW	
135	Greaves Ltd, Ch'wad, Pune	F12	TBD2V6 MK-I	145.8 kW	ARAI/MOEF/DGTA/GLP-F12/2003-22
136	KOEL, PUNE	F7	6SL9088TA1	129.8 kW	ARAI/MOEF/DGTA/KOEL-F7/2003-29
137			6SL9088TA	145.72 kW	
138	Cummins India Ltd., Kothrud, Pune	F7	NT-14-61	208.8 kW	ARAI/MOEF/DGTA/CIL-F7/2003-33
139			NT-14-62	228 kW	
140	Greaves Ltd, Ch'wad, Pune	F7	6YDAX MK35P	81.19 kW	ARAI/MOEF/DGTA/GLP-F7/2003-30
141					
142	Cummins India Ltd., Kothrud, Pune	F9	NT-14-G3	208.8 kW	ARAI/MOEF/DGTA/CIL-F9/2003-35
143			NT-14-G4	228 kW	
144			NT-14-F5	254 kW	
145	Greaves Cotton Ltd, Pune	F13	TBD3V6 MK-1	176 kW	ARAI/MOEF/DGTA/GCLP-F13/2003-40
146			TBD3V6 TBD3V8 TBD3V12 TBD3V12 MK1	169 kW 230.2 kW, 356.7 kW	
147	KOEL, Pune	F8	6SL1500TAI	164.1 kW	ARAI/MOEF/DGTA/KOEL-F8/2003-42
148			6SL1500TA	181 kW	
149	Cummins India Ltd., Pune	F17	6CTAA8.3-G4	231.2 kW	ARAI/MOEF/DGTA/CIL-F17/2004-025
150	HPL, Hosur	F1	3306DITA-GS-2	203 kW	ARAI/MOEF/DGTA/HPL-F1/2004-029
151			3306DITA-GP-2	184 kW	
152			3306DITA-GS-1	179 kW	
153			3306DITA-GP-1	163 kW	
154	HPL, Hosur	F2	3306DITA-GP-4	224 kW	ARAI/MOEF/DGTA/HPL-F2/2004-030
155			3306DITA-GS-3	224 kW	
156			3306DITA-GP-3	203 kW	
157	Ashok Leyland Ltd., Chennai	F26	AL8NTIG3	223 kW	ARAI/MoEF/DGTA/ALL-F26/2013-047
158			AL8NTIG1	180 kW	
159			AL8NTIG2	163 kW	
160	Ashok Leyland Ltd., Chennai	F25	AL6DTIDG4	147 kW	ARAI/MoEF/DGTA-II/ALL-F25/2013-046
161			AL6DTIDG2	116 kW	
162			AL6DTIDG3	130 kW	
163	Shanghai Diesel Engine Co. Ltd., 2636, JunGong Road, Shanghai, China	F11	SC7H250D2	168 kW	ARAI/MoEF/DGTA/IMP/SDEC-F11/2013-044
164			SC7H230D2	154 kW	
165	Kirloskar Oil Engines Ltd., Khadki, Pune	F10	DV6ITA	241 kW	ARAI/MOEF/DGTA/IMP/KOEL-F10/2004-026- E2

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S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
166	Greaves Cotton Ltd., (D.E.U.), Chinchwad, Pune	F28	4G11TAG3	114 kW	ARAI/MoEF/DGTA/GCLP-F28/2009-063-E1
167			6G11TAG3	163 kW	
168			6G11TAG1	127.2 kW	
169			6G11TAG2	144.5 kW	
170	Mak Controls and Systems Pvt. Ltd., 7/41-B, Avinashi Road, Coimbatore-641 014	F10	TCD2013L062V	191 kW	ARAI/MoEF/DGTA/IMP/MCSP-F10/2012-12
171	Cooper Corporation Pvt Ltd., MIDC, Satara	F4	6B2D1C 170	170 kW	ARAI/MOEF/DGTA/CCPL-F4/2012-007
172	Cooper Corporation Pvt Ltd., MIDC, Satara	F5	6B2D1C 125	125 kW	ARAI/MOEF/DGTA/CCPL-F5/2012-006
173	Greaves Cotton Ltd., (D.E.U.), Chinchwad, Pune	F22	TBD4L4	148.6 kW	ARAI/MOEF/DGTA/GCLP-F22/2007-24
174			TBD4V6	222.86 kW	
175			TBD4IV6	222.86 kW	
176	Empower Gensets Pvt Ltd., Survey No. 36/1, Pisoli Road, Pisoli, Taluka Haveli, District Pune - 411028, India.	F2	BF6M1013FC	166 kW	ARAI/MoEF/DGTA/IMP/EGPL-F2/2011-044
177			BF4M1013FC	106 kW	
178	Ashok Leyland Limited, Ennore, Tamilnadu	F23	AL6DTI G4	146 kW	ARAI/MoEF/DGTA/ALL-F23/2011-042
179	Ashok Leyland Limited, Hosur, Tamilnadu Ashok Leyland Limited, Pant Nagar, Uttarakhand		AL6DTI G3	128 kW	
180	Kirloskar Oil Engines Ltd., Khadki, Pune	F11	6SL8800TASRII	173.3 kW	ARAI/MOEF/DGTA/KOEL-F11/2004-052
181	Cummins India Ltd., Daman	F18	6BTAA5.9G1I	125.2 kW	ARAI/MOEF/DGTA/CIL-F18/2004-056
182	Cummins India Ltd., Pune	F19	NT-855-G5-I	228.2 kW	ARAI/MOEF/DGTA/CIL-F19/2004-057
183	Greaves Cotton Ltd., Pune	F16	TBD4L4	144 kW	ARAI/MOEF/DGTA/GCLP-F16/2004-065
184			TBD4V6	222.86 kW	
185			TBD4IV6	222.86 kW	
186	Kirloskar Oil Engines Ltd., Khadki, Pune	F15	6K1080TAG	128 kW	ARAI/MOEF/DGTA/KOEL-F15/2005-14
187			6K1080TAG SR1	147 kW	
188	Volvo, Bangalore	F4	TAD740GE	220 kW	ARAI/MOEF/IMP/DGTA/VOLVO-F4/2005-18
189			TWD740GE	181 kW	
190	Greaves Cotton Ltd., Pune	F12	TBD2V6MKI	144.8 kW	ARAI/MOEF/DGTA/GCLP-F12/2005-24
191			TBD2V8MKI	186.08 kW	
192	Greaves Cotton Ltd., Pune	F15	TBD4L4, TBD4L4P	148.6 kW	ARAI/MOEF/DGTA/GCLP-F15/2005-26
193	Kirloskar Oil Engines Ltd., Khadki, Pune	F17	6SL9088TAI	130 kW	ARAI/MOEF/DGTA/KOEL-17/2005-27
194			6SL9088TA	147 kW	

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S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
195	Greaves Cotton Ltd., Pune	F10	TD4L4	112.74 kW	ARAI/MOEF/DGTA/GCLP-F10/2005-29
196	Greaves Cotton Ltd., Pune	F17	TBD3V6 MK-I	186 kW	ARAI/MOEF/DGTA/GCLP-F17/2005-31
197			TBD3V6	186 kW	
198			TBD3V6	169 kW	
199			TBD3V6P	169 kW	
200	Greaves Cotton Ltd., Pune	F21	TBD2V6MK-IP	164 kW	ARAI/MOEF/DGTA/GCLP-F21/2005-34
201			TBD2V8P	204.7 kW	
202	Kaytee Switchgear Ltd., Hubli	F4	R6113ZLD	155 kW	ARAI/MOEF/DGTA/KSL-F4/2005-37
203	Kaytee Switchgear Ltd., Hubli	F3	6KSWITC105	127 kW	ARAI/MOEF/DGTA/KSL-F3/2006-02
204	Ashok Leyland Ltd., Hosur	F5	ALGWD618.428	231.3 kW	ARAI/MOEF/DGTA/ALL-F5/2006-007
205	HPPL, Hosur	F1	3306 DITA GS-2	203 kW	ARAI/MOEF/DGTA/HPL-F1/2006-015
206			3306 DITA GP-1	163 kW	
207			3306 DITA GS-1	179 kW	
208			3306 DITA GP-2	184 kW	
209	HPPL Hosur	F2	3306 DITA GP-3	203 kW	ARAI/MOEF/DGTA/ HPL-F2/2006-016
210			3306 DITA GS-3	224 kW	
211			3306 DITA GP-4	228 kW	
212	Kirloskar Oil Engines Ltd., Pune	F20	6SL1500TASR	164.5 kW	ARAI/MOEF/DGTA/KOEL-F20/2006-028
213			6SL1500TASR2	184.0 kW	
214	Kirloskar Oil Engines Ltd., Pune	F8	6SL1500TAI	164.5 kW	ARAI/MOEF/DGTA/KOEL-F8/2006-029
215			6SL1500TA	184.0 kW	
216	CPIPL, Hosur	F1	3306 DITA GS-2	203 kW	ARAI/MOEF/DGTA/CPIPL-F1/2007-002
217			3306 DITA GP-1	179 kW	
218			3306 DITA GS-1	179 kW	
219			3306 DITA GP-2	184 kW	
220	Greaves Cotton Ltd., Chinchwad, Pune	F21	TBD2V6MK IP	145.8 kW	ARAI/MOEF/DGTA/GCLP-F21/2007-019
221			TBD2V8P	179 kW	
222			3306 DITA GP-2	184 kW	
223	Greaves Cotton Ltd., Chinchwad, Pune	F3	6YDMK3	68.40 kW	ARAI/MOEF/DGTA/GCLP-F3/2007-031
224	Greaves Cotton Ltd., Chinchwad, Pune	F2	6YDCMK3	114.3 kW	ARAI/MOEF/DGTA/GCLP-F2/2007-037
225	Volvo India Pvt. Ltd., Bangalore	F5	TAD734GE	216 kW	ARAI/MOEF/DGTA/IMP/VOLVO-F5/2007- 048

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S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
226	Standard Combines Pvt. Ltd., (Tractor Division), Barnala, Punjab)	F1	TBD4V6	222.86 kW	ARAI/MOEF/DGTA/SCPL-F1/2008-008
227			TBD4IV6	222.86 kW	
228	Caterpillar India Pvt. Ltd., Mathagondapalli, TN	F2	3306 DITA-GP-3	203 kW	ARAI/MOEF/DGTA/CIPL-F2/2008-018
229			3306 DITA-GS-3	224 kW	
230			3306 DITA-GP-4	228 kW	
231	Greaves Cotton Ltd., Chinchwad, Pune	F26	TBD2V8MKI	186.08 kW	ARAI/MOEF/DGTA/GCLP-F26/2008-025
232	TLD Europe, France	F1	QSB6.7	164 kW	ARAI/MOEF/DGTA/IMP/TLD-F1/2008-046
233	Lombardini India Pvt. Ltd., Aurangabad	F10	TD226B-6IID1	116.2 kW	ARAI/MOEF/DGTA/IMP/LIPL-F10/2008-058
234	Ashok Leyland Ltd., Chennai	F22	AL4127AG2	125 kW	ARAI/MOEF/DGTA/ALL-F22/2008-072
235	Cummins India Ltd., Daman	F6	6BTA5.9-G5	93 kW	ARAI/MOEF/DGTA/CIL-F6/2003-15-E1
236			6BTA5.9G2I	114 kW	
237	SuperNova Engineers Ltd., Ahmedabad	F6	YC6M320D	235.5 kW	ARAI/MOEF/DGTA/IMP/SEL-F6/2008-074
238	SuperNova Engineers Ltd., Ahmedabad	F5	YC6A190D	133.5 kW	ARAI/MOEF/DGTA/IMP/SEL-F5/2008-075
239	Mahindra & Mahindra Ltd.,	F21	62805GC	186 kW	ARAI/MOEF/DGTA/IMP/M&M-F21/2008-078
240	Mahindra & Mahindra Ltd.,	F20	62205GC	146 kW	ARAI/MOEF/DGTA/IMP/M&M-F20/2008-079
241	Shanghai Diesel Engiens Co. Ltd.	F2	G128ZLD	187 kW	ARAI/MOEF/DGTA/IMP/SDEC-F2/2009-017
242			G128ZLD1	236 kW	
243			G128ZLD2	206 kW	
244	Shanghai Diesel Engiens Co. Ltd.	F3	SC11CB300D1	221 kW	ARAI/MOEF/DGTA/IMP/SDEC-F3/2009-018
245	Mahindra & Mahindra Ltd., Kandivili, Mumbai	F25	63455GC	230 kW	ARAI/MOEF/DGTA/IMP/M&M-F25/2009-019
246	Shandong Weichai Huafeng Power Co. Ltd. China	F5	R6105ZLD1-P1	84 kW	ARAI/MOEF/DGTA/IMP/HUA-F5/2009-022
247	Shandong Weichai Huafeng Power Co. Ltd. China	F8	R6105ZLD1-P1	127 kW	ARAI/MOEF/DGTA/IMP/HUA-F8/2009-025
248			R6105ZLD-P1	110 kW	
249	Lombardini India Pvt. Ltd., Aurangabad	F11	WD10D260 E21	204.30 kW	ARAI/MOEF/DGTA/IMP/LIPL-F12/2009-034

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S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
250	Indo Marine Engineering Co. Pvt. Ltd., Pune	F2	6081HF001 200	200 kW	ARAI/MOEF/DGTA/IMP/IMEC-F2/2009-037
251			6081HF001 260	260 kW	
252	Kirloskar Elettric Co. Ltd. Gokul Road, Hubli- 580030.	F20	6IKK135ZLD	187 kW	ARAI/MOEF/DGTA/KECL-F20/2010-001
253	Kirloskar Elettric Co. Ltd. Gokul Road, Hubli- 580030.	F21	6IKC120IZD2	236 kW	ARAI/MOEF/DGTA/KECL-F21/2010-002
254	Greaves Cotton Ltd., (D.E.U.), Chinchwad, Pune-19	F30	TBD3V6MK-II	230.2 kW	ARAI/MOEF/DGTA/GCLP-F30/2010-078
255	Navistar, Inc. 10400 W. North Ave. Melrose Park, IL 60160, USA	F1	GCB300A	224 kW	ARAI/MOEF/DGTA/IMP/NAV-F1/2010-081
256	Deutz (Dalian) Engine Co., Ltd., No-49 DangBei Road, Sha Hekou District, Dalian, China	F6	BF6M1013FC	201 kW	ARAI/MoEF/IMP/DGTA/DEIPL-F6/2010-084
257			BF4M1013FC	102 kW	
258			BF4M1013EC	129 kW	
259			BF6M1013EC	153 kW	
260	Mahindra Navistar Engines Pvt. Ltd., Pune	F2	S12-I (160 KVA)	146.13 kW	ARAI/MoEF/DGTA/MNEPL- F2/2010-086
261			S12-II (140 KVA	128.74 kW	
262			S12-III (125KVA)	114.7 kW	
263	Cummins India Ltd., Power Generation Business Unit Daman-396210	F18	6BTAA5.9-G3	115 kW	ARAI/MoEF/DGTA/CILD-F18/2010-089
264			6BTAA5.9-G4	127 kW	
265	Yuchai Machinery Co. Ltd. 88, Tianqiao West Road, Yulin, Guangxi	F8	YC6B155L-D20	112 kW	ARAI/MoEF/DGTA/IMP/SEL-F8/2010-093
266	Perkins Engines Company Ltd., Eastfield, Peterborough, PE15NA	F4	1306C-E87 TAG4	224 kW	ARAI/MoEF/DGTA/IMP/PECL-F4/2011-002
267	Mak Controls and Systems Pvt. Ltd., 7/41-B, Avinashi Road, Coimbatore	F7	BF4M1013FC	117 kW	ARAI/MoEF/DGTA/IMP/MCSP-F7/2011-017
268			BF6M1013FC	187 kW	
269	Kirloskar Electric Company Limited, Unit 14, Gokul Road, Hubli 580030	F4	6KSWITC113	155 kW	ARAI/MoEF/DGTA/KECL-F4/2011-025
270	Kirloskar Electric Company Limited, Unit 14, Gokul Road, Hubli 580030	F25	6IKK135ZLD1	236 kW	ARAI/MoEF/DGTA/IMP/KECL-F25/2011-030
271	DEUTZ AG Otto Str. 1, D-51149 Cologne, Germany	F11	BF6M1015C	214 kW	ARAI/MoEF/DGTA/IMP/DEU-F10/2011-035

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

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