

[National Automotive Board (NAB)]

C O U G 0082

Date : 22nd March 2025

TYPE APPROVAL CERTIFICATE

FOR

Retro-fit Emission Control Devices (RECD) Compliance

Cert	Report	Specs	Drg	Total
14	09	62	10	95 pgs

1. Based on the verification of documents & trials conducted on RECD model "MMW/DAT-SAT.9" (Family designation DAT-SAT-Filter) 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".

Documental Reference		RECD Manufacturer			
Current Certificate		M/s Maxmoc Motor Works India Pvt. Ltd.P 273/3B Ponnusamy Nagar, A Zone, Alkkuvarpatti, Dindigul - 624001 Plant : Dindigul			
RECD Family Designation		Engine Manufacturer		Tested Engine Model	
DAT-SAT-Filter		M/s Cummins India Limited		6CTAA-8.3-G4	
RECD Model			Engine Cubic Capacity		Gross Engine Power
MMW/DAT-SAT.9			8268 cm ³		231.0 kW @ 1500 rpm
Engine Baseline emissions	CPCB Stage -I	Class of RECD	Class II	Engine Manufacturing Date	
				June 2012	
S. No.	Item Description	Parent RECD Type		RECD types within the RECD family (if applicable)	
		Annexure-II			

2. Validity of the Certificate

This Type Approval Certificate is valid for Genset engine CPCB Stage -I effective from 01.07.2004 to 30.06.2014.	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 **70.72kW to 231.0kW**, 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 **30.06.2025** as per CPCB Procedure, for details refer **COP Annexure-I.**

AUTHORISED SIGNATORY

SITARAM KASHYAP DEPUTY GENERAL MANAGER		SAURABH DALELA DIRECTOR		Page 1 of 14
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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			
AUTHORISED SIGNATORY					
SITARAM KASHYAP DEPUTY GENERAL MANAGER		SAURABH DALELA DIRECTOR			Page 2 of 14

Annexure-III

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	6BTA5.9G11	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	

AUTHORISED SIGNATORY

SITARAM KASHYAP DEPUTY GENERAL MANAGER	SAURABH DALELA DIRECTOR	Page 3 of 14

Annexure-III Cont.

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	

AUTHORISED SIGNATORY

SITARAM KASHYAP DEPUTY GENERAL MANAGER		SAURABH DALELA DIRECTOR	Page 4 of 14

Annexure-III Cont.

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/WWF-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, Bhipore, 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

AUTHORISED SIGNATORY

SITARAM KASHYAP DEPUTY GENERAL MANAGER	SAURABH DALELA DIRECTOR	Page 5 of 14

Annexure-III Cont.

S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
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, Ditric 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	
AUTHORISED SIGNATORY					
SITARAM KASHYAP DEPUTY GENERAL MANAGER			SAURABH DALELA DIRECTOR		Page 6 of 14

Annexure-III Cont.

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	
AUTHORISED SIGNATORY					
SITARAM KASHYAP DEPUTY GENERAL MANAGER			SAURABH DALELA DIRECTOR		Page 7 of 14

Annexure-III Cont.

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	

AUTHORISED SIGNATORY

SITARAM KASHYAP DEPUTY GENERAL MANAGER	SAURABH DALELA DIRECTOR	Page 8 of 14

Annexure-III

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	

AUTHORISED SIGNATORY

SITARAM KASHYAP DEPUTY GENERAL MANAGER	SAURABH DALELA DIRECTOR	Page 9 of 14

Annexure-III Cont.

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-III/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

AUTHORISED SIGNATORY

SITARAM KASHYAP DEPUTY GENERAL MANAGER	SAURABH DALELA DIRECTOR	Page 10 of 14

Annexure-III Cont.

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	

AUTHORISED SIGNATORY

SITARAM KASHYAP DEPUTY GENERAL MANAGER	SAURABH DALELA DIRECTOR	Page 11 of 14

Annexure-III Cont.

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

AUTHORISED SIGNATORY

SITARAM KASHYAP DEPUTY GENERAL MANAGER	SAURABH DALELA DIRECTOR	Page 12 of 14

Annexure-III Cont.

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
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	

AUTHORISED SIGNATORY

SITARAM KASHYAP DEPUTY GENERAL MANAGER	SAURABH DALELA DIRECTOR	Page 13 of 14

Annexure-III Cont.

S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
252	Kirloskar Electric Co. Ltd. Gokul Road, Hubli- 580030.	F20	6IKK135ZLD	187 kW	ARAI/MoEF/DGTA/KECL-F20/2010-001
253	Kirloskar Electric 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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AUTHORISED SIGNATORY		
SITARAM KASHYAP DEPUTY GENERAL MANAGER		SAURABH DALELA DIRECTOR
		Page 14 of 14