National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEST FACTORY, AVL TECHNICAL CENTRE PVT. LTD., 376-377, PHASE-IV, UDYOG VIHAR, GURGAON, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from 4W Diesel Vehicle for GVW less than 3.5 tonns	Smoke, Free Acceleration Smoke Test For CI Engines	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 GSR889(E), AIS137:2019
2	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Genset (upto 440 kW) Diesel Engines	Pollutant (measured on steady state cycle & transient test cycle) CH4	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178-4:2008
3	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Genset (upto 440 kW) Diesel Engines	Pollutant (measured on steady state cycle & transient test cycle) CO	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178-4:2008
4	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Genset (upto 440 kW) Diesel Engines	Pollutant (measured on steady state cycle & transient test cycle) CO2	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178-4: 2008
5	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Genset (upto 440 kW) Diesel Engines	Pollutant (measured on steady state cycle & transient test cycle) HC	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178-4: 2008
6	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Genset (upto 440 kW) Diesel Engines	Pollutant (measured on steady state cycle & transient test cycle) NH3	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178-4: 2008
7	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Genset (upto 440 kW) Diesel Engines	Pollutant (measured on steady state cycle & transient test cycle) NOx	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178-4: 2008
8	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Genset (upto 440 kW) Diesel Engines	Pollutant (measured on steady state cycle & transient test cycle) Particulate mass.	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178-4: 2008
9	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Genset (upto 440 kW) Diesel Engines	Pollutant (measured on steady state cycle & transient test cycle) Particulate No. with Partial flow & full flow with CVS system.	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178-4: 2008
10	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Light / heavy Duty LCV/HCV application)(Diesel & Petrol Engines	Smoke Measurement	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, GSR889(E), AIS137: 2019

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11	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Off Road application (Tractor , Construction equipment) Diesel Engines	CH4, Pollutant (measured on steady state cycle & transient test cycle)	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178: 2008, 2000/25/EC amend. 2014/43 - Agriculture Tractor Engine Emission and Power 2004/26/EC, - EU Non-Road Emission REGULATION (EU) 2017/654 19.12.2016 ECE R-96 - Gaseous and Particulate Pollutants in Agricultural, forestry tractors and in non-road mobile machinery Directive 2010/22/EU 97/68/EC amend. 012/46/EU - NRMM 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines, AIS137: 2019
12	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Off Road application (Tractor , Construction equipment) Diesel Engines	CO, Pollutant (measured on steady state cycle & transient test cycle)	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178: 2008, 2000/25/EC amend. 2014/43 - Agriculture Tractor Engine Emission and Power 2004/26/EC, - EU Non-Road Emission REGULATION (EU) 2017/654 19.12.2016 ECE R-96 - Gaseous and Particulate Pollutants in Agricultural, forestry tractors and in non-road mobile machinery Directive 2010/22/EU 97/68/EC amend. 012/46/EU - NRMM 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines. AIS137: 2019

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13	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Off Road application (Tractor , Construction equipment) Diesel Engines	CO2, Pollutant (measured on steady state cycle & transient test cycle)	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178: 2008, 2000/25/EC amend. 2014/43 - Agriculture Tractor Engine Emission and Power 2004/26/EC, - EU Non-Road Emission REGULATION (EU) 2017/654 19.12.2016 ECE R-96 - Gaseous and Particulate Pollutants in Agricultural, forestry tractors and in non-road mobile machinery Directive 2010/22/EU 97/68/EC amend. 012/46/EU - NRMM 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines. AIS137: 2019
14	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Off Road application (Tractor , Construction equipment) Diesel Engines	HC, Pollutant (measured on steady state cycle & transient test cycle)	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178: 2008, 2000/25/EC amend. 2014/43 - Agriculture Tractor Engine Emission and Power 2004/26/EC, - EU Non-Road Emission REGULATION (EU) 2017/654 19.12.2016 ECE R-96 - Gaseous and Particulate Pollutants in Agricultural, forestry tractors and in non-road mobile machinery Directive 2010/22/EU 97/68/EC amend. 012/46/EU - NRMM 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines. AIS137: 2019

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15	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Off Road application (Tractor , Construction equipment) Diesel Engines	NH3, Pollutant (measured on steady state cycle & transient test cycle)	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178: 2008, 2000/25/EC amend. 2014/43 - Agriculture Tractor Engine Emission and Power 2004/26/EC, - EU Non-Road Emission REGULATION (EU) 2017/654 19.12.2016 ECE R-96 - Gaseous and Particulate Pollutants in Agricultural, forestry tractors and in non-road mobile machinery Directive 2010/22/EU 97/68/EC amend. 012/46/EU - NRMM 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines. AIS137: 2019
16	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Off Road application (Tractor , Construction equipment) Diesel Engines	NOx, Pollutant (measured on steady state cycle & transient test cycle)	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178: 2008, 2000/25/EC amend. 2014/43 - Agriculture Tractor Engine Emission and Power 2004/26/EC, - EU Non-Road Emission REGULATION (EU) 2017/654 19.12.2016 ECE R-96 - Gaseous and Particulate Pollutants in Agricultural, forestry tractors and in non-road mobile machinery Directive 2010/22/EU 97/68/EC amend. 012/46/EU - NRMM 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines. AIS137:2019

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17	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Off Road application (Tractor , Construction equipment) Diesel Engines	Particulate mass, Pollutant (measured on steady state cycle & transient test cycle)	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178: 2008, 2000/25/EC amend. 2014/43 - Agriculture Tractor Engine Emission and Power 2004/26/EC, - EU Non-Road Emission REGULATION (EU) 2017/654 19.12.2016 ECE R-96 - Gaseous and Particulate Pollutants in Agricultural, forestry tractors and in non-road mobile machinery Directive 2010/22/EU 97/68/EC amend. 012/46/EU - NRMM 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines. AIS137: 2019
18	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Off Road application (Tractor , Construction equipment) Diesel Engines	Particulate No, Pollutant (measured on steady state cycle & transient test cycle) Particulate No. with Partial flow & full flow with CVS system	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ISO 8178: 2008, 2000/25/EC amend. 2014/43 - Agriculture Tractor Engine Emission and Power 2004/26/EC, - EU Non-Road Emission REGULATION (EU) 2017/654 19.12.2016 ECE R-96 - Gaseous and Particulate Pollutants in Agricultural, forestry tractors and in non-road mobile machinery Directive 2010/22/EU 97/68/EC amend. 012/46/EU - NRMM 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines. AIS137: 2019
19	CHEMICAL- ATMOSPHERIC POLLUTION	Emission from Off Road application (Tractor, Construction equipment) Diesel Engines	Smoke Measurement	MoRTH/CMVR/TAP/115-116_ ISSUE-4. AIS137: 2019
20	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from 2W (Petrol) Engine vehicles for GVW less than 3.5 tonns	CH4, 2WP, Tail Pipe Emissions (Pollutant - CH4)	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 (Type I) (Except Type III, IV, V, VI), GSR889(E), Guideline for test cycles BSIV & Above-, R 83/04: 2004, 70/220/EEC Amended Till 2002/80/EC: 2002. AIS 137: 2019

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21	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from 2W (Petrol) Engine vehicles for GVW less than 3.5 tonns	CO, 2WP, Tail Pipe Emissions (Pollutant - CO)	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 (Type I) (Except Type III, IV, V, VI), GSR889(E), Guideline for test cycles BSIV & Above-, R 83/04: 2004, 70/220/EEC Amended Till 2002/80/EC: 2002. AIS137: 2019
22	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from 2W (Petrol) Engine vehicles for GVW less than 3.5 tonns	CO2, 2WP, Tail Pipe Emissions (Pollutant - CO2)	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 (Type I) (Except Type III, IV, V, VI), GSR889(E), Guideline for test cycles BSIV & Above-, R 83/04: 2004, 70/220/EEC Amended Till 2002/80/EC: 2002. AIS137: 2019
23	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from 2W (Petrol) Engine vehicles for GVW less than 3.5 tonns	HC, 2WP, Tail Pipe Emissions (Pollutant - HC)	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 (Type I) (Except Type III, IV, V, VI), GSR889(E), Guideline for test cycles BSIV & Above-, R 83/04: 2004, 70/220/EEC Amended Till 2002/80/EC: 2002. AIS137: 2019
24	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from 2W (Petrol) Engine vehicles for GVW less than 3.5 tonns	NOx, 2WP, Tail Pipe Emissions (Pollutant - NOx)	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 (Type I) (Except Type III, IV, V, VI), GSR889(E), Guideline for test cycles BSIV & Above-, R 83/04: 2004, 70/220/EEC Amended Till 2002/80/EC: 2002. AIS137: 2019
25	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from 4W (Petrol, Diesel & CNG) Engine vehicles for GVW less than 3.5 tonns	CH4, 4W-PDC, Tail Pipe Emissions (Pollutant - CH4)	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 (Type I) (Except Type III, IV, V, VI) - For MIDC and IDC, GSR889(E), Guideline for test cycles (WLTP) - UN/ECE/WP.29/GRPE/WLTP-LG, R 83/04: 2004, 70/220/EEC Amended Till 2002/80/EC: 2002 EU 715/2007- atmospheric pollutants such as particulates and nitrogen oxide for passenger cars and light duty vehicles of categories M1, M2, N1 and N2 (all with a reference mass not exceeding 2,610kg) AIS137: 2019

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26	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from 4W (Petrol, Diesel & CNG) Engine vehicles for GVW less than 3.5 tonns	CO2, 4W-PDC, Tail Pipe Emissions (Pollutant - CO2)	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 (Type I) (Except Type III, IV, V, VI) - For MIDC and IDC, GSR889(E), Guideline for test cycles (WLTP) - UN/ECE/WP.29/GRPE/WLTP-LG, R 83/04: 2004, 70/220/EEC Amended Till 2002/80/EC: 2002 EU 715/2007- atmospheric pollutants such as particulates and nitrogen oxide for passenger cars and light duty vehicles of categories M1, M2, N1 and N2 (all with a reference mass not exceeding 2,610kg) AIS137: 2019
27	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from 4W (Petrol, Diesel & CNG) Engine vehicles for GVW less than 3.5 tonns	HC, 4W-PDC, Tail Pipe Emissions (Pollutant - HC)	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 (Type I) (Except Type III, IV, V, VI) - For MIDC and IDC, GSR889(E), Guideline for test cycles (WLTP) - UN/ECE/WP.29/GRPE/WLTP-LG, R 83/04: 2004, 70/220/EEC Amended Till 2002/80/EC: 2002 EU 715/2007- atmospheric pollutants such as particulates and nitrogen oxide for passenger cars and light duty vehicles of categories M1, M2, N1 and N2 (all with a reference mass not exceeding 2,610kg) AIS137: 2019
28	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from 4W (Petrol, Diesel & CNG) Engine vehicles for GVW less than 3.5 tonns	NOx, 4W-PDC, Tail Pipe Emissions (Pollutant - NOx)	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 (Type I) (Except Type III, IV, V, VI) - For MIDC and IDC, GSR889(E), Guideline for test cycles (WLTP) - UN/ECE/WP.29/GRPE/WLTP-LG, R 83/04: 2004, 70/220/EEC Amended Till 2002/80/EC: 2002 EU 715/2007- atmospheric pollutants such as particulates and nitrogen oxide for passenger cars and light duty vehicles of categories M1, M2, N1 and N2 (all with a reference mass not exceeding 2,610kg) IS137: 2019

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29	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from 4W (Petrol, Diesel & CNG) Engine vehicles for GVW less than 3.5 tonns	Particulate matter, 4W-PDC, Tail Pipe Emissions (Pollutant - Particulate matter)	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 (Type I) (Except Type III, IV, V, VI) - For MIDC and IDC, GSR889(E), Guideline for test cycles (WLTP) - UN/ECE/WP.29/GRPE/WLTP-LG, R 83/04: 2004, 70/220/EEC Amended Till 2002/80/EC: 2002 EU 715/2007- atmospheric pollutants such as particulates and nitrogen oxide for passenger cars and light duty vehicles of categories M1, M2, N1 and N2 (all with a reference mass not exceeding 2,610kg) AIS137: 2019
30	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from 4W (Petrol, Diesel & CNG) Engine vehicles for GVW less than 3.5 tonns	Particulate Number, 4W-PDC, Tail Pipe Emissions (Pollutant - Particulate Number)	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 (Type I) (Except Type III, IV, V, VI) - For MIDC and IDC, GSR889(E), Guideline for test cycles (WLTP) - UN/ECE/WP.29/GRPE/WLTP-LG, R 83/04: 2004, 70/220/EEC Amended Till 2002/80/EC: 2002 EU 715/2007- atmospheric pollutants such as particulates and nitrogen oxide for passenger cars and light duty vehicles of categories M1, M2, N1 and N2 (all with a reference mass not exceeding 2,610kg) AIS137: 2019
31	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from 4W (Petrol, Diesel & CNG)Engine vehicles for GVW less than 3.5 tonns	CO, 4W-PDC, Tail Pipe Emissions (Pollutant - CO)	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 (Type I) (Except Type III, IV, V, VI) - For MIDC and IDC, GSR889(E), Guideline for test cycles (WLTP) - UN/ECE/WP.29/GRPE/WLTP-LG, R 83/04: 2004, 70/220/EEC Amended Till 2002/80/EC: 2002 EU 715/2007- atmospheric pollutants such as particulates and nitrogen oxide for passenger cars and light duty vehicles of categories M1, M2, N1 and N2 (all with a reference mass not exceeding 2,610kg) AIS137: 2019

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32	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from 4W, 2W Petrol, CNG Vehicle for GVW less than 3.5 tonns	Idling HC for SI Engines	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 (Type II Test) [Except Type III, IV, V, VI], GSR889(E), AIS137: 2019
33	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from 4W, 2W Petrol, CNG Vehicle for GVW less than 3.5 tonns	Idling CO FOR SI ENGINES	MoRTH/CMVR/TAP/115-116_ Issue. 4: 2010 (Type II Test) [Except Type III, IV, V, VI], GSR889(E), AIS137: 2019
34	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from Genset (upto 440 kW) Diesel Engines	Smoke Measurement	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010 ISO 8178: 2008 (Full load Smoke)
35	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from Light / heavy Duty (LCV/HCV application) Diesel & Petrol Engines	CH4, Pollutant (measured on steady state cycle & transient test cycle) CH4	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ECE-R- 49, GSR889(E), GTR-4 - Compression ignition (C.I.) engines and positive ignition (P.I.) Engines with regard to the emission of pollutants 2005/78/EC (EU) No. 595/2009 amend. (EU) No.133/14, R-49-02 to R 49-06, Directive 88/77/EEC, 1999/96/EC 2005/55/EC- Heavy Duty Euro Emission Legislation Directive 2010/26/EU 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines AIS137: 2019
36	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from Light / heavy Duty (LCV/HCV application) Diesel & Petrol Engines	CO, Pollutant (measured on steady state cycle & transient test cycle) - CO	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ECE-R- 49, GSR889(E), GTR-4 - Compression ignition (C.I.) engines and positive ignition (P.I.) Engines with regard to the emission of pollutants 2005/78/EC (EU) No. 595/2009 amend. (EU) No.133/14, R-49-02 to R 49-06, Directive 88/77/EEC, 1999/96/EC 2005/55/EC- Heavy Duty Euro Emission Legislation Directive 2010/26/EU 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines. AIS137: 2019

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37	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from Light / heavy Duty (LCV/HCV application) Diesel & Petrol Engines	CO2, Pollutant (measured on steady state cycle & transient test cycle) CO2	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ECE-R- 49, GSR889(E), GTR-4 - Compression ignition (C.I.) engines and positive ignition (P.I.) Engines with regard to the emission of pollutants 2005/78/EC (EU) No. 595/2009 amend. (EU) No.133/14, R-49-02 to R 49-06, Directive 88/77/EEC, 1999/96/EC 2005/55/EC- Heavy Duty Euro Emission Legislation Directive 2010/26/EU 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines AIS137: 2019
38	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from Light / heavy Duty (LCV/HCV application) Diesel & Petrol Engines	NH3, Pollutant (measured on steady state cycle & transient test cycle) NH3	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ECE-R- 49, GSR889(E), GTR-4 - Compression ignition (C.I.) engines and positive ignition (P.I.) Engines with regard to the emission of pollutants 2005/78/EC (EU) No. 595/2009 amend. (EU) No.133/14, R-49-02 to R 49-06, Directive 88/77/EEC, 1999/96/EC 2005/55/EC- Heavy Duty Euro Emission Legislation Directive 2010/26/EU 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines AIS137: 2019

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39	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from Light / heavy Duty (LCV/HCV application) Diesel & Petrol Engines	NOx, Pollutant (measured on steady state cycle & transient test cycle) NOx	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ECE-R- 49, GSR889(E), GTR-4 - Compression ignition (C.I.) engines and positive ignition (P.I.) Engines with regard to the emission of pollutants 2005/78/EC (EU) No. 595/2009 amend. (EU) No.133/14, R-49-02 to R 49-06, Directive 88/77/EEC, 1999/96/EC 2005/55/EC- Heavy Duty Euro Emission Legislation Directive 2010/26/EU 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines AIS137: 2019
40	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from Light / heavy Duty (LCV/HCV application) Diesel & Petrol Engines	Particulate mass, Pollutant (measured on steady state cycle & transient test cycle) Particulate mass.	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ECE-R- 49, GSR889(E), GTR-4 - Compression ignition (C.I.) engines and positive ignition (P.I.) Engines with regard to the emission of pollutants 2005/78/EC (EU) No. 595/2009 amend. (EU) No.133/14, R-49-02 to R 49-06, Directive 88/77/EEC, 1999/96/EC 2005/55/EC- Heavy Duty Euro Emission Legislation Directive 2010/26/EU 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines AIS137: 2019

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
41	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from Light / heavy Duty (LCV/HCV application) Diesel & Petrol Engines	Particulate No., Pollutant (measured on steady state cycle & transient test cycle) Particulate No. with Partial flow & full flow with CVS system.	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ECE-R- 49, GSR889(E), GTR-4 - Compression ignition (C.I.) engines and positive ignition (P.I.) Engines with regard to the emission of pollutants 2005/78/EC (EU) No. 595/2009 amend. (EU) No.133/14, R-49-02 to R 49-06, Directive 88/77/EEC, 1999/96/EC 2005/55/EC- Heavy Duty Euro Emission Legislation Directive 2010/26/EU 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines AIS137: 2019
42	CHEMICAL- ATMOSPHERIC POLLUTION	Emissions from Light / heavy Duty (LCV/HCV application) Diesel & Petrol Engines	THC, Pollutant (measured on steady state cycle & transient test cycle) - THC	MoRTH/CMVR/TAP/115-116_ ISSUE-4: 2010, ECE-R- 49, GSR889(E), GTR-4 - Compression ignition (C.I.) engines and positive ignition (P.I.) Engines with regard to the emission of pollutants 2005/78/EC (EU) No. 595/2009 amend. (EU) No.133/14, R-49-02 to R 49-06, Directive 88/77/EEC, 1999/96/EC 2005/55/EC- Heavy Duty Euro Emission Legislation Directive 2010/26/EU 2001/27/EC - emission of gaseous and particulate pollutants from compression-ignition engines AIS137: 2019
43	MECHANICAL- AUTOMOTIVE COMPONENTS	Engines (Diesel, Petrol & CNG)	Fuel Consumption	MoRTH / CMVR / TAP / 115 – 116 (Issue 4: 2010)
44	MECHANICAL- AUTOMOTIVE COMPONENTS	Engines (Diesel, Petrol & CNG)	Power	MoRTH/CMVR/TAP/115-116_ ISSUE-4 Amend. 3: 2010, R-85 00 (for CI & SI engine) 80/1269/EEC Amend. 1999/99/EC R 120-01, ADR30/01 IS 14599: 1999, UNECE-R24-03,ISO 8178: 2008 72/306/EEC Amend, GSR889(E), AIS137: 2019

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
45	MECHANICAL-AUTOMOTIVE COMPONENTS	Vehicle (Diesel, Petrol & CNG)	Power	MoRTH/CMVR/TAP/115-116_ Issue. 4: AIS137: 2019