National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	THE AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA (ARAI), SURVEY NO.102, VETAL HILL, OFF PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5085	**Page No**	1 of 123
Validity	31/10/2021 to 30/10/2023	**Last Amended on**	20/01/2023

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
LOCATION 1-SURVEY NO.102, VETAL HILL, OFF PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, INDIA Permanent Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	A) Pollutants(measured on steady state cycles and transient test cycles)- CO	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 98(E)_2015,GSR
2	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	A) Pollutants(measured on steady state cycles and transient test cycles)-CH4	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 98(E)_2015,GSR

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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
3	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	A) Pollutants(measured on steady state cycles and transient test cycles)-CO2	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 98(E)_2015,GSR
4	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	A) Pollutants(measured on steady state cycles and transient test cycles)-HC	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 98(E)_2015,GSR

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5	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	A) Pollutants(measured on steady state cycles and transient test cycles)-NH3	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 98(E)_2015,GSR
6	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	A) Pollutants(measured on steady state cycles and transient test cycles)-NOx	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 98(E)_2015,GSR
7	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	A) Pollutants(measured on steady state cycles and transient test cycles)-Particulate Number	R 49-06, , (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, GSR 889(E), GSR 98(E)_2015,GSR 412(E)_2016,GSR 201(E)

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8	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	A)Pollutants(measured on steady state cycles and transient test cycles)- Particulate Matter	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 98(E)_2015,GSR
9	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	B) Measurement of Engine Power - 20 kW dynamometer	R-85-00 (for CI & SI engines only), 80/1269/EEC as amended 1999/99/EC ,R 120 -01, ADR30/01,IS14599:1999. AIS 137 Part -5, Part-7
10	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	B) Measurement of Engine Power- 250 kW	R-85-00 (for CI & SI engines only), 80/1269/EEC as amended 1999/99/EC ,R 120 -01, ADR30/01,IS14599:1999. AIS 137 Part -5, Part-7
11	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	B) Measurement of Engine Power-100 kW dynamometer	R-85-00 (for CI & SI engines only), 80/1269/EEC as amended 1999/99/EC ,R 120 -01, ADR30/01,IS14599:1999. AIS 137 Part -5, Part-7
12	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	B) Measurement of Engine Power-220 kW	R-85-00 (for CI & SI engines only), 80/1269/EEC as amended 1999/99/EC ,R 120 -01, ADR30/01,IS14599:1999. AIS 137 Part -5, Part-7
13	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	B) Measurement of Engine Power-500 kW	R-85-00 (for CI & SI engines only), 80/1269/EEC as amended 1999/99/EC ,R 120 -01, ADR30/01,IS14599:1999. AIS 137 Part -5, Part-7

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14	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	C) Measurement of visible Pollutant (Smoke density)	UNECE-R24-03, 72/306/EEC as amended by 2005/21/EC, 77/537/EEC as amended by 97/54/EEC, GSR 103 (E), IS 8118:1998 , 40 CFR Part 86 Sub Part I, AIS 137 Part -5, Part-7
15	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	Measurement of visible Pollutant (Smoke density)	• MoRTH/CMVR/TAP-115/116 Issue No. 4 Amendment 5, • IS14599: 1999, • UNECE R-24, Rev 2, Amend.5 • 72/306/EEC as amended by 2005/21/EC • 77/537/EEC as amended by 97/54/EC • ISO 8178-3:1994 • ISO 8178-3:2019 • ISO 8178-9: 2000 • IS 8118 : 2008 • AIS 137 Part -5 :2019 • AIS 137 Part-7:2019 • ADR30/01, • GSR 103(E), • 40 CFR Part 86 sub part I
16	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	Measurement of visible Pollutant (Smoke density)	• System and Procedure for Compliance to Emission Limits for Power Generating Set Engines (up to Gross Mechanical Power 800 kW) for Genset Application run on diesel fuel • System & Procedure for Compliance to emission and noise limit for Genset run on dedicated Natural Gas (NG) or Liquefied Petroleum Gas (LPG); Petrol or Natural Gas (NG)/Liquefied Petroleum Gas (LPG); and Dual Fuel - Diesel and Natural Gas (NG) or Diesel and Liquefied Petroleum Gas (LPG). GSR 281 (E) - Dtd 07th March 2016.

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17	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine (Automotive Application)	Pollutants (measured on steady state cycles and transient test cycles)- CH4	• MoRTH/CMVR/TAP/115- 116 Issue 4 Amendment 5, • R-49-02 to R 49-06, • 88/77/EEC as amended 2001/27/EC, • 2005/55/EC as amended2005/78/EC, • 2006/51/EC • (EU) no. 595/2009 as amended by (EU) no.133/2014. • AIS 137 Part-4, • ADR80/03, • 40 CFR Part 86 Sub-Part N, • CMV Rules 115 and 126 • GSR 286 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 98(E)_2015, GSR :2019 , GSR 281(E)
18	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine (Automotive Application)	Pollutants (measured on steady state cycles and transient test cycles)- CO2	• MoRTH/CMVR/TAP/115- 116 Issue 4 Amendment 5, • R-49-02 to R 49-06, • 88/77/EEC as amended 2001/27/EC, • 2005/55/EC as amended2005/78/EC, • 2006/51/EC • (EU) no. 595/2009 as amended by (EU) no.133/2014. • AIS 137 Part-4, • ADR80/03, • 40 CFR Part 86 Sub-Part N, • CMV Rules 115 and 126 • GSR 286 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 98(E)_2015, GSR :2019 , GSR 281(E)

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19	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine (Automotive Application)	Pollutants (measured on steady state cycles and transient test cycles)- HC	• MoRTH/CMVR/TAP/115- 116 Issue 4 Amendment 5, • R-49-02 to R 49-06, • 88/77/EEC as amended 2001/27/EC, • 2005/55/EC as amended2005/78/EC, • 2006/51/EC • (EU) no. 595/2009 as amended by (EU) no.133/2014. • AIS 137 Part-4, • ADR80/03, • 40 CFR Part 86 Sub-Part N, • CMV Rules 115 and 126 • GSR 286 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 98(E)_2015, GSR :2019 , GSR 281(E)
20	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine (Automotive Application)	Pollutants (measured on steady state cycles and transient test cycles)- NOx	• MoRTH/CMVR/TAP/115- 116 Issue 4 Amendment 5, • R-49-02 to R 49-06, • 88/77/EEC as amended 2001/27/EC, • 2005/55/EC as amended2005/78/EC, • 2006/51/EC • (EU) no. 595/2009 as amended by (EU) no.133/2014. • AIS 137 Part-4, • ADR80/03, • 40 CFR Part 86 Sub-Part N, • CMV Rules 115 and 126 • GSR 286 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 98(E)_2015, GSR :2019 , GSR 281(E)

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21	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine (Automotive Application)	Pollutants (measured on steady state cycles and transient test cycles)- Particulate matter	• MoRTH/CMVR/TAP/115- 116 Issue 4 Amendment 5, • R-49-02 to R 49-06, • 88/77/EEC as amended 2001/27/EC, • 2005/55/EC as amended2005/78/EC, • 2006/51/EC • (EU) no. 595/2009 as amended by (EU) no.133/2014. • AIS 137 Part-4, • ADR80/03, • 40 CFR Part 86 Sub-Part N, • CMV Rules 115 and 126 • GSR 286 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 98(E)_2015, GSR :2019 , GSR 281(E)
22	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine (Automotive Application)	Pollutants (measured on transient test cycles)- NH3	• MoRTH/CMVR/TAP/115- 116 Issue 4 Amendment 5, • R-49-02 to R 49-06 • 2005/55/EC as amended2005/78/EC, • 2006/51/EC • (EU) no. 595/2009 as amended by (EU) no.133/2014. • AIS 137 Part-4, • ADR80/03, • 40 CFR Part 86 Sub-Part N, • CMV Rules 115 and 126 • GSR 286 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 98(E)_2015, GSR :2019 , GSR 281(E)
23	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine (Automotive Application)	Pollutants(measured in transient test cycles)- Particulate Number	• R 49-06, • (EU) no. 595/2009 as amended by (EU) no. 133/2014. • AIS 137 Part-4, • ADR80/03, • 97/68/EC as amended2012/46/EU, • 2000/25/ECas amended 2014/43, • GSR 889(E), GSR 98(E)_2015, GSR • 412(E)_2016, GSR 201(E): 2019

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24	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine(Automotive Application)	Pollutants (measured on steady state cycles and transient test cycles)- CO	• MoRTH/CMVR/TAP/115- 116 Issue 4 Amendment 5, • R-49-02 to R 49-06, • 88/77/EEC as amended 2001/27/EC, • 2005/55/EC as amended2005/78/EC, • 2006/51/EC • (EU) no. 595/2009 as amended by (EU) no.133/2014. • AIS 137 Part-4, • ADR80/03, • 40 CFR Part 86 Sub-Part N, • CMV Rules 115 and 126 • GSR 286 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 98(E)_2015, GSR :2019 , GSR 281(E)
25	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Genset application)	Pollutants (measured on steady state cycles)- HC	• ISO 8178- Part 1, 2006 • ISO 8178- Part 1, 2017 • ISO 8178-Part 1, 2020 • ISO 8178-4:2006 • ISO 8178-4:2017 • ISO 8178-4:2020 • ISO 8178-7: 1996 • ISO 8178-Part 7, 2015 • System and Procedure for Compliance to Emission Limits for Power Generating Set Engines (up to Gross Mechanical Power 800 kW) for Genset Application run on diesel fuel. As notified via GSR771(E) dated 11-12-2013 and its amendment GSR232(E) dated 31-03-2014
26	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Genset application)	Pollutants (measured on steady state cycles)- HC	• System & Procedure for Compliance to emission and noise limit for Genset run on dedicated Natural Gas (NG) or Liquefied Petroleum Gas (LPG); Petrol or Natural Gas (NG)/Liquefied Petroleum Gas (LPG); and Dual Fuel - Diesel and Natural Gas (NG) or Diesel and Liquefied Petroleum Gas (LPG). GSR 281 (E) - Dtd 07th March 2016. • Safety code of practice published by CPCB. (For NG, LPG, Dual fuel engine)

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27	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Genset application)	Pollutants (measured on steady state cycles)- NOX	• ISO 8178- Part 1, 2006 • ISO 8178- Part 1, 2017 • ISO 8178- Part 1, 2020 • ISO 8178-4:2006 • ISO 8178-4:2017 • ISO 8178-4:2020 • ISO 8178-7: 1996 • ISO 8178-Part 7, 2015 • System and Procedure for Compliance to Emission Limits for Power Generating Set Engines (up to Gross Mechanical Power 800 kW) for Genset Application run on diesel fuel. As notified via GSR771(E) dated 11-12-2013 and its amendment GSR232(E) dated 31-03-2014
28	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Genset application)	Pollutants (measured on steady state cycles)- NOX	• System & Procedure for Compliance to emission and noise limit for Genset run on dedicated Natural Gas (NG) or Liquefied Petroleum Gas (LPG); Petrol or Natural Gas (NG)/Liquefied Petroleum Gas (LPG); and Dual Fuel - Diesel and Natural Gas (NG) or Diesel and Liquefied Petroleum Gas (LPG). GSR 281 (E) - Dtd 07th March 2016. • Safety code of practice published by CPCB. (For NG, LPG, Dual fuel engine)
29	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Genset application)	Pollutants (measured on steady state cycles)- Particulate Matter	• ISO 8178- Part 1, 2006 • ISO 8178- Part 1, 2017 • ISO 8178- Part 1, 2020 • ISO 8178-4:2006 • ISO 8178-4:2017 • ISO 8178-4:2020 • ISO 8178-7: 1996 • ISO 8178-Part 7, 2015 • System and Procedure for Compliance to Emission Limits for Power Generating Set Engines (up to Gross Mechanical Power 800 kW) for Genset Application run on diesel fuel. As notified via GSR771(E) dated 11-12-2013 and its amendment GSR232(E) dated 31-03-2014

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30	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Genset application)	Pollutants (measured on steady state cycles)- Particulate Matter	• System & Procedure for Compliance to emission and noise limit for Genset run on dedicated Natural Gas (NG) or Liquefied Petroleum Gas (LPG); Petrol or Natural Gas (NG)/Liquefied Petroleum Gas (LPG); and Dual Fuel - Diesel and Natural Gas (NG) or Diesel and Liquefied Petroleum Gas (LPG). GSR 281 (E) - Dtd 07th March 2016. • Safety code of practice published by CPCB. (For NG, LPG, Dual fuel engine)
31	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Genset application)	Pollutants (measured on steady state cycles cycles)- CO	• ISO 8178- Part 1, 2006 • ISO 8178- Part 1, 2017 • ISO 8178- Part 1, 2020 • ISO 8178-4:2006 • ISO 8178-4:2017 • ISO 8178-4:2020 • ISO 8178-7: 1996 • ISO 8178-Part 7, 2015 • System and Procedure for Compliance to Emission Limits for Power Generating Set Engines (up to Gross Mechanical Power 800 kW) for Genset Application run on diesel fuel. As notified via GSR771(E) dated 11-12-2013 and its amendment GSR232(E) dated 31-03-2014
32	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Genset application)	Pollutants (measured on steady state cycles cycles)- CO	• System & Procedure for Compliance to emission and noise limit for Genset run on dedicated Natural Gas (NG) or Liquefied Petroleum Gas (LPG); Petrol or Natural Gas (NG)/Liquefied Petroleum Gas (LPG); and Dual Fuel - Diesel and Natural Gas (NG) or Diesel and Liquefied Petroleum Gas (LPG). As notified via GSR 281 (E) - Dtd 07th March 2016 • Safety code of practice published by CPCB. (For NG, LPG, Dual fuel engine)

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33	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Portable Genset application)	Pollutants (measured on steady state cycles)- CO	• system & procedure for compliance to emission limit for petrol & kerosene run generator sets up to 19 kw as notified via gsr 5356 (e) dated 7th aug 2013 • SAE j1088 rev feb 93(for portable generator sets- test procedure for the measurement of gaseous exhaust emissions from small utility engines)
34	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Portable Genset application)	Pollutants (measured on steady state cycles)- HC	• system & procedure for compliance to emission limit for petrol & kerosene run generator sets up to 19 kw as notified via gsr 5356 (e) dated 7th aug 2013 • SAE j1088 rev feb 93(for portable generator sets- test procedure for the measurement of gaseous exhaust emissions from small utility engines)
35	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Portable Genset application)	Pollutants (measured on steady state cycles)- NOx	• system & procedure for compliance to emission limit for petrol & kerosene run generator sets up to 19 kw as notified via gsr 5356 (e) dated 7th aug 2013 • SAE j1088 rev feb 93(for portable generator sets- test procedure for the measurement of gaseous exhaust emissions from small utility engines)

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36	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Tractor and CEV application)	Pollutants (measured on steady state cycles and transient test cycles)- CO	• MoRTH/CMVR/TAP/115- 116 Issue 4 Amendment 5, • AIS 137 Part- 7 • 97/68/EC as amended2012/46/EU, • R 96-04, • 2000/25/EC as amended 2014/43/EU • ISO 8178- Part 1, 2006 • ISO 8178- Part 1, 2017 • ISO 8178- Part 1, 2020 • ISO 8178-4:2006 • ISO 8178-4:2017 • ISO 8178-4:2020 • ISO 8178-7: 1996 • ISO 8178-Part 7, 2015 • 40 CFR Part 89 Sub-Part E, • GSR 201(E) 5th March 2018 • Bharat (TREM IIIA) Stage - GSR 84 & Bharat Stage III (CEV) – GSR 276
37	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Tractor and CEV application)	Pollutants (measured on steady state cycles and transient test cycles)- HC	• MoRTH/CMVR/TAP/115- 116 Issue 4 Amendment 5, • AIS 137 Part- 7 • 97/68/EC as amended2012/46/EU, • R 96-04, • 2000/25/EC as amended 2014/43/EU • ISO 8178- Part 1, 2006 • ISO 8178- Part 1, 2017 • ISO 8178- Part 1, 2020 • ISO 8178-4:2006 • ISO 8178-4:2017 • ISO 8178-4:2020 • ISO 8178-7: 1996 • ISO 8178-Part 7, 2015 • 40 CFR Part 89 Sub-Part E, • GSR 201(E) 5th March 2018 • Bharat (TREM IIIA) Stage - GSR 84 & Bharat Stage III (CEV) – GSR 276
38	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Tractor and CEV application)	Pollutants (measured on steady state cycles and transient test cycles)- NH3	• MoRTH/CMVR/TAP/115- 116 Issue 4 Amendment 5, • AIS 137 Part- 7 • 97/68/EC as amended2012/46/EU, • R 96-04, • 2000/25/EC as amended 2014/43/EU, • ISO 8178- Part 1, 2017 • ISO 8178- Part 1, 2020 • ISO 8178-4:2017 • ISO 8178-4:2020 • ISO 8178-7:1996 • ISO 8178-Part 7, 2015.

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39	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Tractor and CEV application)	Pollutants (measured on steady state cycles and transient test cycles)- NOx	• MoRTH/CMVR/TAP/115- 116 Issue 4 Amendment 5, • AIS 137 Part- 7 • 97/68/EC as amended2012/46/EU, • R 96-04, • 2000/25/EC as amended 2014/43/EU • ISO 8178- Part 1, 2006 • ISO 8178- Part 1, 2017 • ISO 8178- Part 1, 2020 • ISO 8178-4:2006 • ISO 8178-4:2017 • ISO 8178-4:2020 • ISO 8178-7: 1996 • ISO 8178-Part 7, 2015 • 40 CFR Part 89 Sub-Part E, • GSR 201(E) 5th March 2018 • Bharat (TREM IIIA) Stage - GSR 84 & Bharat Stage III (CEV) – GSR 276
40	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Tractor and CEV application)	Pollutants (measured on steady state cycles and transient test cycles)- Particulate matter	• MoRTH/CMVR/TAP/115- 116 Issue 4 Amendment 5, • AIS 137 Part- 7 • 97/68/EC as amended2012/46/EU, • R 96-04, • 2000/25/EC as amended 2014/43/EU • ISO 8178- Part 1, 2006 • ISO 8178- Part 1, 2017 • ISO 8178- Part 1, 2020 • ISO 8178-4:2006 • ISO 8178-4:2017 • ISO 8178-4:2020 • ISO 8178-7: 1996 • ISO 8178-Part 7, 2015 • 40 CFR Part 89 Sub-Part E, • GSR 201(E) 5th March 2018 • Bharat (TREM IIIA) Stage - GSR 84 & Bharat Stage III (CEV) – GSR 276
41	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Off road Engines (Tractor and CEV application)	Pollutants (measured on steady state cycles and transient test cycles)- PN	• AIS 137 Part- 7 • 97/68/EC as amended2012/46/EU, • R 96-04, • 2000/25/EC as amended 2014/43/EU • ISO 8178- Part 1, 2017 • ISO 8178- Part 1, 2020 • ISO 8178-4:2017 • ISO 8178-4:2020 • ISO 8178-7: 1996 • ISO 8178-Part 7, 2015 .

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42	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Vehicle	Tail pipe emissions CH4-1	• MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8); • AIS137Part2(3W)Feb 2019; • AIS137Part3(4W)Apr 2019; • GSR493(E),GSR400(E),GSR77(E),GSR720(E),GSR686(E),GSR853(E),GSR284(E),GSR589(E),GSR84(E),GSR111(E),GSR103(E),GSR487(E),GSR498(E),GSR99(E),GSR412(E),GSR682(E),GSR889(E),GSR954(E),GSR490(E),GSR518(E),GSR1461(E),GSR881(E); • R83-07, R-101; • ADR79/04; • (EC)715/2007, (EU)2017/1151, (EU)2017/1347; • GTR-15 (WLTP)17-03-2016. (Only Type I and II test)
43	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Vehicle	Tail pipe emissions CH4-2	• MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8); • AIS137Part2(3W)Feb 2019; • AIS137Part3(4W)Apr 2019; • GSR493(E),GSR400(E),GSR77(E),GSR720(E),GSR686(E),GSR853(E),GSR284(E),GSR589(E),GSR84(E),GSR111(E),GSR103(E),GSR487(E),GSR498(E),GSR99(E),GSR412(E),GSR682(E),GSR889(E),GSR954(E),GSR490(E),GSR518(E),GSR1461(E),GSR881(E); • R83-07, R-101; • ADR79/04; • (EC)715/2007, (EU)2017/1151, (EU)2017/1347; • GTR-15 (WLTP)17-03-2016. (Only Type I and II test)

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44	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Vehicle	Tail pipe emissions CO2-1	• MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8); • AIS137Part2(3W)Feb 2019; • AIS137Part3(4W)Apr 2019; • GSR493(E),GSR400(E),GSR77(E),GSR720(E),GSR686(E),GSR853(E),GSR284(E),GSR589(E),GSR84(E),GSR111(E),GSR103(E),GSR487(E),GSR498(E),GSR99(E),GSR412(E),GSR682(E),GSR889(E),GSR954(E),GSR490(E),GSR518(E),GSR1461(E),GSR881(E); • R83-07, R-101; • ADR79/04; • (EC)715/2007, (EU)2017/1151, (EU)2017/1347; • GTR-15 (WLTP)17-03-2016. (Only Type I and II test)
45	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Vehicle	Tail pipe emissions CO2-2	• MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8); • AIS137Part2(3W)Feb 2019; • AIS137Part3(4W)Apr 2019; • GSR493(E),GSR400(E),GSR77(E),GSR720(E),GSR686(E),GSR853(E),GSR284(E),GSR589(E),GSR84(E),GSR111(E),GSR103(E),GSR487(E),GSR498(E),GSR99(E),GSR412(E),GSR682(E),GSR889(E),GSR954(E),GSR490(E),GSR518(E),GSR1461(E),GSR881(E); • R83-07, R-101; • ADR79/04; • (EC)715/2007, (EU)2017/1151, (EU)2017/1347; • GTR-15 (WLTP)17-03-2016. (Only Type I and II test)

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46	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Vehicle	Tail pipe emissions COL-1	• MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8); • AIS137Part2(3W)Feb 2019; • AIS137Part3(4W)Apr 2019; • GSR493(E),GSR400(E),GSR77(E),GSR720(E),GSR686(E),GSR853(E),GSR284(E),GSR589(E),GSR84(E),GSR111(E),GSR103(E),GSR487(E),GSR498(E),GSR99(E),GSR412(E),GSR682(E),GSR889(E),GSR954(E),GSR490(E),GSR518(E),GSR1461(E),GSR881(E); • R83-07, R-101; • ADR79/04; • (EC)715/2007, (EU)2017/1151, (EU)2017/1347; • GTR-15 (WLTP)17-03-2016. (Only Type I and II test)
47	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Vehicle	Tail pipe emissions COL-2	• MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8); • AIS137Part2(3W)Feb 2019; • AIS137Part3(4W)Apr 2019; • GSR493(E),GSR400(E),GSR77(E),GSR720(E),GSR686(E),GSR853(E),GSR284(E),GSR589(E),GSR84(E),GSR111(E),GSR103(E),GSR487(E),GSR498(E),GSR99(E),GSR412(E),GSR682(E),GSR889(E),GSR954(E),GSR490(E),GSR518(E),GSR1461(E),GSR881(E); • R83-07, R-101; • ADR79/04; • (EC)715/2007, (EU)2017/1151, (EU)2017/1347; • GTR-15 (WLTP)17-03-2016. (Only Type I and II test)

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48	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Vehicle	Tail pipe emissions Fuel consumption	• MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8); • AIS137Part2(3W)Feb 2019; • AIS137Part3(4W)Apr 2019; • GSR493(E),GSR400(E),GSR77(E),GSR720(E),GSR686(E),GSR853(E),GSR284(E),GSR589(E),GSR84(E),GSR111(E),GSR103(E),GSR487(E),GSR498(E),GSR99(E),GSR412(E),GSR682(E),GSR889(E),GSR954(E),GSR490(E),GSR518(E),GSR1461(E),GSR881(E); • R83-07, R-101; • ADR79/04; • (EC)715/2007, (EU)2017/1151, (EU)2017/1347; • GTR-15 (WLTP)17-03-2016. (Only Type I and II test)
49	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Vehicle	Tail pipe emissions NOx-1	• MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8); • AIS137Part2(3W)Feb 2019; • AIS137Part3(4W)Apr 2019; • GSR493(E),GSR400(E),GSR77(E),GSR720(E),GSR686(E),GSR853(E),GSR284(E),GSR589(E),GSR84(E),GSR111(E),GSR103(E),GSR487(E),GSR498(E),GSR99(E),GSR412(E),GSR682(E),GSR889(E),GSR954(E),GSR490(E),GSR518(E),GSR1461(E),GSR881(E); • R83-07, R-101; • ADR79/04; • (EC)715/2007, (EU)2017/1151, (EU)2017/1347; • GTR-15 (WLTP)17-03-2016. (Only Type I and II test)

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50	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Vehicle	Tail pipe emissions NOx-2	• MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8); • AIS137Part2(3W)Feb 2019; • AIS137Part3(4W)Apr 2019; • GSR493(E),GSR400(E),GSR77(E),GSR720(E),GSR686(E),GSR853(E),GSR284(E),GSR589(E),GSR84(E),GSR111(E),GSR103(E),GSR487(E),GSR498(E),GSR99(E),GSR412(E),GSR682(E),GSR889(E),GSR954(E),GSR490(E),GSR518(E),GSR1461(E),GSR881(E); • R83-07, R-101; • ADR79/04; • (EC)715/2007, (EU)2017/1151, (EU)2017/1347; • GTR-15 (WLTP)17-03-2016. (Only Type I and II test)
51	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Vehicle	Tail pipe emissions Particulate Matter	• MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8); • AIS137Part2(3W)Feb 2019; • AIS137Part3(4W)Apr 2019; • GSR493(E),GSR400(E),GSR77(E),GSR720(E),GSR686(E),GSR853(E),GSR284(E),GSR589(E),GSR84(E),GSR111(E),GSR103(E),GSR487(E),GSR498(E),GSR99(E),GSR412(E),GSR682(E),GSR889(E),GSR954(E),GSR490(E),GSR518(E),GSR1461(E),GSR881(E); • R83-07, R-101; • ADR79/04; • (EC)715/2007, (EU)2017/1151, (EU)2017/1347; • GTR-15 (WLTP)17-03-2016. (Only Type I and II test)

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52	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Vehicle	Tail pipe emissions PN-1	• MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8); • AIS137Part2(3W)Feb 2019; • AIS137Part3(4W)Apr 2019; • GSR493(E),GSR400(E),GSR77(E),GSR720(E),GSR686(E),GSR853(E),GSR284(E),GSR589(E),GSR84(E),GSR111(E),GSR103(E),GSR487(E),GSR498(E),GSR99(E),GSR412(E),GSR682(E),GSR889(E),GSR954(E),GSR490(E),GSR518(E),GSR1461(E),GSR881(E); • R83-07, R-101; • ADR79/04; • (EC)715/2007, (EU)2017/1151, (EU)2017/1347; • GTR-15 (WLTP)17-03-2016. (Only Type I and II test)
53	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Vehicle	Tail pipe emissions PN-2	• MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8); • AIS137Part2(3W)Feb 2019; • AIS137Part3(4W)Apr 2019; • GSR493(E),GSR400(E),GSR77(E),GSR720(E),GSR686(E),GSR853(E),GSR284(E),GSR589(E),GSR84(E),GSR111(E),GSR103(E),GSR487(E),GSR498(E),GSR99(E),GSR412(E),GSR682(E),GSR889(E),GSR954(E),GSR490(E),GSR518(E),GSR1461(E),GSR881(E); • R83-07, R-101; • ADR79/04; • (EC)715/2007, (EU)2017/1151, (EU)2017/1347; • GTR-15 (WLTP)17-03-2016. (Only Type I and II test)

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54	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Vehicle	Tail pipe emissions THC(C1)-1	• MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8); • AIS137Part2(3W)Feb 2019; • AIS137Part3(4W)Apr 2019; • GSR493(E),GSR400(E),GSR77(E),GSR720(E),GSR686(E),GSR853(E),GSR284(E),GSR589(E),GSR84(E),GSR111(E),GSR103(E),GSR487(E),GSR498(E),GSR99(E),GSR412(E),GSR682(E),GSR889(E),GSR954(E),GSR490(E),GSR518(E),GSR1461(E),GSR881(E); • R83-07, R-101; • ADR79/04; • (EC)715/2007, (EU)2017/1151, (EU)2017/1347; • GTR-15 (WLTP)17-03-2016. (Only Type I and II test)
55	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Vehicle	Tail pipe emissions THC(C1)-2	• MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8); • AIS137Part2(3W)Feb 2019; • AIS137Part3(4W)Apr 2019; • GSR493(E),GSR400(E),GSR77(E),GSR720(E),GSR686(E),GSR853(E),GSR284(E),GSR589(E),GSR84(E),GSR111(E),GSR103(E),GSR487(E),GSR498(E),GSR99(E),GSR412(E),GSR682(E),GSR889(E),GSR954(E),GSR490(E),GSR518(E),GSR1461(E),GSR881(E); • R83-07, R-101; • ADR79/04; • (EC)715/2007, (EU)2017/1151, (EU)2017/1347; • GTR-15 (WLTP)17-03-2016. (Only Type I and II test)

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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
56	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions CO -1	MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8), AIS 137 Part 1,2,3 & 6 GSR 493(E), GSR 400(E) , GSR 77(E), GSR 720 (E), GSR 686 (E), GSR 853 (E), GSR 284 (E), GSR 589 (E), GSR 786 (E), GSR 84 (E), GSR 515 (E), GSR 111(E), GSR 103(E), GSR431(E), GSR487 (E), GSR498(E), GSR99 (E) , GSR 412(E), GSR 682(E), GSR 629(E), GSR 889(E) GSR 954 (E), GSR 290 (E) GSR 490 (E) GSR 518 (E) GSR 1461 (E), GSR 881(E) R83-07(Except Type VI), R-101 , R40, R47 ADR 79/05(Except Type VI) EEC 70/220, (EC) 715/2007,
57	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions CO -2	, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1154 ,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295 CARB 2001 for EVAP only, Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, EPA CFR 40 Part 86-Sub Part E&F (Only for 2W),GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007,

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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
58	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions HC - 1	MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8), AIS 137 Part 1,2,3 & 6 GSR 493(E), GSR 400(E) , GSR 77(E), GSR 720 (E), GSR 686 (E), GSR 853 (E), GSR 284 (E), GSR 589 (E), GSR 786 (E), GSR 84 (E), GSR 515 (E), GSR 111(E), GSR 103(E), GSR431(E), GSR487 (E), GSR498(E), GSR99 (E) , GSR 412(E), GSR 682(E), GSR 629(E), GSR 889(E) GSR 954 (E), GSR 290 (E) GSR 490 (E) GSR 518 (E) GSR 1461 (E), GSR 881(E) R83-07(Except Type VI), R-101 , R40, R47 ADR 79/05(Except Type VI) EEC 70/220, (EC) 715/2007,
59	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions HC - 2	, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1154 ,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295 CARB 2001 for EVAP only, Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, EPA CFR 40 Part 86-Sub Part E&F (Only for 2W),GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007,

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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
60	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions NOX - 1	, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1154 ,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295 CARB 2001 for EVAP only, Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, EPA CFR 40 Part 86-Sub Part E&F (Only for 2W),GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007,
61	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Idling Emission Measurement HC - 1	MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8), AIS 137 Part 1,2,3 & 6 GSR 493(E), GSR 400(E) , GSR 77(E), GSR 720 (E), GSR 686 (E), GSR 853 (E), GSR 284 (E), GSR 589 (E), GSR 786 (E), GSR 84 (E), GSR 515 (E), GSR 111(E), GSR 103(E), GSR431(E), GSR487 (E), GSR498(E), GSR99 (E) , GSR 412(E), GSR 682(E), GSR 629(E), GSR 889(E) GSR 954 (E), GSR 290 (E) GSR 490 (E) GSR 518 (E) GSR 1461 (E), GSR 881(E) R83-07(Except Type VI), R-101 , R40, R47 ADR 79/05(Except Type VI) EEC 70/220, (EC) 715/2007,

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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
62	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions CH4 - 1	MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8), AIS 137 Part 1,2,3 & 6 GSR 493(E), GSR 400(E) , GSR 77(E), GSR 720 (E), GSR 686 (E), GSR 853 (E), GSR 284 (E), GSR 589 (E), GSR 786 (E), GSR 84 (E), GSR 515 (E), GSR 111(E), GSR 103(E), GSR431(E), GSR487 (E), GSR498(E), GSR99 (E) , GSR 412(E), GSR 682(E), GSR 629(E), GSR 889(E) GSR 954 (E), GSR 290 (E) GSR 490 (E) GSR 518 (E) GSR 1461 (E), GSR 881(E) R83-07(Except Type VI), R-101 , R40, R47 ADR 79/05(Except Type VI) EEC 70/220, (EC) 715/2007,
63	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions CH4 - 2	(EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1154 ,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295 CARB 2001 for EVAP only, Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, EPA CFR 40 Part 86-Sub Part E&F (Only for 2W),GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007

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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
64	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions CO2 - 1	MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8), AIS 137 Part 1,2,3 & 6 GSR 493(E), GSR 400(E) , GSR 77(E), GSR 720 (E), GSR 686 (E), GSR 853 (E), GSR 284 (E), GSR 589 (E), GSR 786 (E), GSR 84 (E), GSR 515 (E), GSR 111(E), GSR 103(E), GSR431(E), GSR487 (E), GSR498(E), GSR99 (E) , GSR 412(E), GSR 682(E), GSR 629(E), GSR 889(E) GSR 954 (E), GSR 290 (E) GSR 490 (E) GSR 518 (E) GSR 1461 (E), GSR 881(E) R83-07(Except Type VI), R-101 , R40, R47 ADR 79/05(Except Type VI) EEC 70/220, (EC) 715/2007,
65	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions CO2 - 2	(EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1154 ,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295 CARB 2001 for EVAP only, Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, EPA CFR 40 Part 86-Sub Part E&F (Only for 2W),GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007,

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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
66	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions Fuel Consumption (calculated from CO, HC, CO2)	MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8), AIS 137 Part 1,2,3 & 6 GSR 954 (E), R83-07(Except Type VI), R-101 , R40, R47 ADR 79/05(Except Type VI) EEC 70/220, (EC) 715/2007, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1154 ,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 , (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295 Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, GB15744-2008, GB20998-2007, GB 14621-2011,
67	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions NOX - 2	(EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1154 ,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295 CARB 2001 for EVAP only, Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, EPA CFR 40 Part 86-Sub Part E&F (Only for 2W),GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007,

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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
68	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions NOX -2	(EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1154 ,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295 CARB 2001 for EVAP only, Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, EPA CFR 40 Part 86-Sub Part E&F (Only for 2W),GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007,
69	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions Particulate Matter - 1	MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8), AIS 137 Part 1,2,3 & 6 GSR 493(E), GSR 400(E) , GSR 77(E), GSR 720 (E), GSR 686 (E), GSR 853 (E), GSR 284 (E), GSR 589 (E), GSR 786 (E), GSR 84 (E), GSR 515 (E), GSR 111(E), GSR 103(E), GSR431(E), GSR487 (E), GSR498(E), GSR99 (E) , GSR 412(E), GSR 682(E), GSR 629(E), GSR 889(E) GSR 954 (E), GSR 290 (E) GSR 490 (E) GSR 518 (E) GSR 1461 (E), GSR 881(E) R83-07(Except Type VI), R-101 , R40, R47 ADR 79/05(Except Type VI) EEC 70/220, (EC) 715/2007,

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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
70	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions Particulate Matter - 2	(EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1154 ,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295 CARB 2001 for EVAP only, Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, EPA CFR 40 Part 86-Sub Part E&F (Only for 2W),GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007,
71	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions Particulate Number - 1	MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8), AIS 137 Part 1,2,3 & 6 GSR 493(E), GSR 400(E) , GSR 77(E), GSR 720 (E), GSR 686 (E), GSR 853 (E), GSR 284 (E), GSR 589 (E), GSR 786 (E), GSR 84 (E), GSR 515 (E), GSR 111(E), GSR 103(E), GSR431(E), GSR487 (E), GSR498(E), GSR99 (E) , GSR 412(E), GSR 682(E), GSR 629(E), GSR 889(E) GSR 954 (E), GSR 290 (E) GSR 490 (E) GSR 518 (E) GSR 1461 (E), GSR 881(E) R83-07(Except Type VI), R-101 , R40, R47 ADR 79/05(Except Type VI) EEC 70/220, (EC) 715/2007,

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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
72	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	A) Tail pipe emissions Particulate Number - 2	(EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1154 ,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295 CARB 2001 for EVAP only, Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, EPA CFR 40 Part 86-Sub Part E&F (Only for 2W),GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007,
73	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	B) Idling Emission Measurement CO - 1	MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8), AIS 137 Part 1,2,3 & 6 GSR 493(E), GSR 400(E) , GSR 77(E), GSR 720 (E), GSR 686 (E), GSR 853 (E), GSR 284 (E), GSR 589 (E), GSR 786 (E), GSR 84 (E), GSR 515 (E), GSR 111(E), GSR 103(E), GSR431(E), GSR487 (E), GSR498(E), GSR99 (E) , GSR 412(E), GSR 682(E), GSR 629(E), GSR 889(E) GSR 954 (E), GSR 290 (E) GSR 490 (E) GSR 518 (E) GSR 1461 (E), GSR 881(E) R83-07(Except Type VI), R-101 , R40, R47 ADR 79/05(Except Type VI) EEC 70/220, (EC) 715/2007,

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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
74	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	B) Idling Emission Measurement CO - 2	(EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1154 ,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295 CARB 2001 for EVAP only, Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, EPA CFR 40 Part 86-Sub Part E&F (Only for 2W),GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007
75	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	B) Idling Emission Measurement HC -2	(EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1154 ,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295 CARB 2001 for EVAP only, Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, EPA CFR 40 Part 86-Sub Part E&F (Only for 2W),GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007,

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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
76	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	C) Free Acceleration Smoke - 1	MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8), AIS 137 Part 1,2,3, 5 & 6 GSR 493(E), GSR 400(E), GSR 77(E), GSR 720 (E), GSR 686 (E), GSR 853 (E), GSR 284 (E), GSR 589 (E), GSR 786 (E), GSR 84 (E), GSR 515 (E), GSR 111(E), GSR 103(E), GSR431(E), GSR487 (E), GSR498(E), GSR99 (E) , GSR 412(E), GSR 682(E), GSR 629(E), GSR 889(E), GSR 290 (E) GSR 490 (E) GSR 518 (E) GSR 1461 (E), GSR 881(E), R40, R47,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 supplemented by
77	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	C) Free Acceleration Smoke -2	(EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295, Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007,
78	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	D) Crankcase emissions - 1	MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8), AIS 137 Part 1,2,3, 5 & 6 GSR 493(E), GSR 400(E) , GSR 77(E), GSR 720 (E), GSR 686 (E), GSR 853 (E), GSR 284 (E), GSR 589 (E), GSR 786 (E), GSR 84 (E), GSR 515 (E), GSR 111(E), GSR 103(E), GSR431(E), GSR487 (E), GSR498(E), GSR99 (E) , GSR 412(E), GSR 682(E), GSR 629(E), GSR 889(E) GSR 954 (E), GSR 290 (E) GSR 490 (E) GSR 518 (E) GSR 1461 (E), GSR 881(E) R83-07(Except Type VI), R-101 , R40, R47 ADR 79/05(Except Type VI) EEC 70/220, (EC) 715/20

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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
79	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	D) Crankcase emissions - 2	(EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1154 ,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295 CARB 2001 for EVAP only, Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, EPA CFR 40 Part 86-Sub Part E&F (Only for 2W),GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007,
80	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	E) Evaporative emissions (HC) - 1	MoRTH/CMVR/TAP/115-116 (Issue 4, Amendment 8), AIS 137 Part 1,2,3, 5 & 6 GSR 493(E), GSR 400(E) , GSR 77(E), GSR 720 (E), GSR 686 (E), GSR 853 (E), GSR 284 (E), GSR 589 (E), GSR 786 (E), GSR 84 (E), GSR 515 (E), GSR 111(E), GSR 103(E), GSR431(E), GSR487 (E), GSR498(E), GSR99 (E) , GSR 412(E), GSR 682(E), GSR 629(E), GSR 889(E) GSR 954 (E), GSR 290 (E) GSR 490 (E) GSR 518 (E) GSR 1461 (E), GSR 881(E) R83-07(Except Type VI), R-101 , R40, R47 ADR 79/05(Except Type VI) EEC 70/220, (EC) 715/20

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81	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle Emission Test on 4 wheeler, 3 wheeler, and 2 wheeler vehicles	E) Evaporative emissions (HC) - 2	(EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1154 ,(EU) 2017/1347(Except Type VI), GTR 02, 97/24/EC (Chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 2018/295 CARB 2001 for EVAP only, Colombian Decree 910, Indonesian Decree 141 of 2003, TRIAS 31- J044(1)-01, TRIAS 31- J044(2)-01, EPA CFR 40 Part 86-Sub Part E&F (Only for 2W),GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007,
82	CHEMICAL- PETROLEUM AND PRODUCTS	Antifreeze coolant	Boiling point	IS 5759 – 2006 (Re.2018) JIS K 2234 – 2018 ASTM D1120 – 2016
83	CHEMICAL- PETROLEUM AND PRODUCTS	Antifreeze coolant	Circulation coolant property	IS 5759 – 2006 (Re.2018) JIS K 2234-2018
84	CHEMICAL- PETROLEUM AND PRODUCTS	Antifreeze coolant	Corrosion property of cast aluminium at heat transfer	IS 5759 – 2006 (Re.2018) & JIS K 2234
85	CHEMICAL- PETROLEUM AND PRODUCTS	Antifreeze coolant	Density	IS 5759-2006 (Re.2018), ASTM D1122-2020 & JIS K 2234
86	CHEMICAL- PETROLEUM AND PRODUCTS	Antifreeze Coolant	Foaming Properties	IS 5759 – 2006 (Re.2018), JIS K 2234 –2018 & ASTM D4921 – 2020
87	CHEMICAL- PETROLEUM AND PRODUCTS	Antifreeze coolant	Glassware metal corrosion property	IS 5759 – 2006 (Re.2018) & JIS K 2234
88	CHEMICAL- PETROLEUM AND PRODUCTS	Antifreeze coolant	pH Value	IS 5759 – 2006 (Re.2018), JIS K 2234 – 2018 & ASTMD1287 – 2011
89	CHEMICAL- PETROLEUM AND PRODUCTS	Antifreeze coolant	Reserve Alkalinity	IS 5759 – 2006 (Re.2018), JIS K 2234 –2018 & ASTM D1121 – 2011
90	CHEMICAL- PETROLEUM AND PRODUCTS	Antifreeze coolant	Water content	IS 5759 – 2006 (Re.2018), JIS K 2234 – 2018 & ASTM D1123-1999
91	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel Engines — NOX Reduction Agent AUS 32	Refractive index	ISO 22241-2 : 2019; IS 17042 (Part 2) : 2020
92	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel Engines — NOX Reduction Agent AUS 32	Aldehyde content	ISO 22241-2 : 2019; IS 17042 (Part 2) : 2020

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93	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel Engines — NOX Reduction Agent AUS 32	Alkalinity	ISO 22241-2 : 2019; IS 17042 (Part 2) : 2020
94	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel Engines — NOX Reduction Agent AUS 32	Biuret content	ISO 22241-2 : 2019; IS 17042 (Part 2) : 2020
95	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel Engines — NOX Reduction Agent AUS 32	Insoluble matter content	ISO 22241-2 : 2019; IS 17042 (Part 2) : 2020
96	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel Engines — NOX Reduction Agent AUS 32	Phosphate content	ISO 22241-2 : 2019; IS 17042 (Part 2) : 2020
97	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel Engines — NOX Reduction Agent AUS 32	Urea Content by refractive index	ISO 22241-2 : 2019; IS 17042 (Part 2) : 2020
98	CHEMICAL- PETROLEUM AND PRODUCTS	High Security Registration plate	Cleanability	AIS 159/ISO 7591
99	CHEMICAL- PETROLEUM AND PRODUCTS	High security registration plate	Resistance to Fuel	AIS 159/ISO 7591
100	CHEMICAL- PETROLEUM AND PRODUCTS	Hydraulic Brake Fluid	Appearance and colour	IS 8654
101	CHEMICAL- PETROLEUM AND PRODUCTS	Hydraulic brake fluid	Compatibility	IS 8654 : 2019, SAE J1703 -2019, SAE J1704 - 2019 & FMVSS 116
102	CHEMICAL- PETROLEUM AND PRODUCTS	Hydraulic brake fluid	Corrosion Test	IIS 8654 : 2019, SAE J1703 -2019, SAE J1704 - 2019 & FMVSS 116
103	CHEMICAL- PETROLEUM AND PRODUCTS	Hydraulic brake fluid	Effect on rubber	IS 8654 : 2019, SAE J1703 -2019, SAE J1704 - 2019 & FMVSS 116
104	CHEMICAL- PETROLEUM AND PRODUCTS	Hydraulic Brake Fluid	Equilibrium Reflux Boiling point (ERBP)	IS 8654 : 2019, SAE J1703 -2019, SAE J1704 - 2019 & FMVSS 116
105	CHEMICAL- PETROLEUM AND PRODUCTS	Hydraulic brake fluid	Evaporation loss	IS 8654 : 2019 & FMVSS 116
106	CHEMICAL- PETROLEUM AND PRODUCTS	Hydraulic brake fluid	Fluidity and appearance	IS 8654 : 2019, SAE J1703 -2019, SAE J1704 - 2019 & FMVSS 116
107	CHEMICAL- PETROLEUM AND PRODUCTS	Hydraulic brake fluid	pH	IS 8654 -2001(Re.2016) SAE J1703 -2012 SAE J1704 –(2012) FMVSS 116-2016
108	CHEMICAL- PETROLEUM AND PRODUCTS	Hydraulic brake fluid	Resistance to Oxidation	IS 8654 : 2019, SAE J1703 -2019, SAE J1704 - 2019 & FMVSS 116

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109	CHEMICAL- PETROLEUM AND PRODUCTS	Hydraulic brake fluid	Stability • High Temperature • Chemical	IS 8654 : 2019, SAE J1703 -2019, SAE J1704 - 2019 & FMVSS 116
110	CHEMICAL- PETROLEUM AND PRODUCTS	Hydraulic Brake Fluid	Water Content(%m/m)	IS 8654-2001(RA 2016),SAEJ1703-2012,SAEJ1704-2012,FMVSS116-2018
111	CHEMICAL- PETROLEUM AND PRODUCTS	Hydraulic brake fluid	Water tolerance	IS 8654 : 2019, SAE J1703 -2019, SAE J1704 - 2019 & FMVSS 116
112	CHEMICAL- PETROLEUM AND PRODUCTS	Hydraulic brake fluid	Wet Equilibrium Reflux Boiling point (Wet ERBP)	IS 8654-2001(Re.2016) SAE J1703 -2012 SAE J1704 –(2012) FMVSS 116-2018
113	CHEMICAL- PETROLEUM AND PRODUCTS	LPG Pressure Regulator, LPG Solenoid Valve, Gas Air Mixer,CNG Pressure Regulator, CNG Solenoid Valve, Gas Air Mixer,Injector	LPG Compatibility/N-Pentane test	ECE R-67-04-2014,ISO 15500
114	CHEMICAL- PLASTIC & RESINS	Plastic	Flammability/ Burning Behavior	SAE J369:2007 FMVSS 302-2018 ISO 3795-1989(E) IS 15061:2002 (2017) (Annex. A)
115	CHEMICAL- PLASTIC & RESINS	Plastic	Polymer identification by FTIR spectrometer	ASTM E 1252-98 (Re-approved 2021) AIS-066-2004: 2010
116	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber	Flammability / Burning Behavior	SAE J369:2007 FMVSS 302-2018 ISO 3795-1989(E) IS 15061:2002 (2017) (Annex. A)
117	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber	Polymer identification by FTIR Spectrometer	ASTM D3677-2010 (Reapproved in 2019) AIS-066-2004: 2010
118	ELECTRICAL-MISCELLANEOUS	CNG Pressure Regulator, CNG Solenoid Valve, CNG Gas Air Mixer, CNG Injector	Electrical Over Voltages	ISO 15500: Part 9-2016, Part 6-2016, Part 7-2015, Part 11-2015 Part 2 – 2016 IS:15712-2006; IS:15713-2006; IS:15714
119	ELECTRICAL-MISCELLANEOUS	Horn	Insulation Resistance Test	IS 1884 :1993 ECE R-28- Rev. 2 (Amendment 3, Supplement 3 to original version of the regulation) SANS: 20028
120	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - ESA	Bulk Current Injection Method	IS/ISO 13766-2
121	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - ESA	Electrostatic Discharge (Air and Contact Discharge)	IS/ISO 13766-2
122	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - ESA	Radiated Immunity (In ALSE Chamber)	IS/ISO 13766-1

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123	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - ESA	Bulk Current Injection Method	IS/ISO 13766-1
124	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - ESA	Electrostatic Discharge (Air and Contact Discharge)	IS/ISO 13766-1
125	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - ESA	Pulse 1, Pulse 2a, Pulse 2b, Pulse 3a, Pulse 3b, Starting Profile, Load Dump (unclamped), Load Dump (clamped)	IS/ISO 13766-1
126	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - ESA	Radiated Emission (In ALSE Chamber)	IS/ISO 13766-1
127	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - ESA	Radiated Immunity (In ALSE Chamber)	IS/ISO 13766-2
128	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - ESA	Radiated Immunity (Strip-Line)	IS/ISO 13766-2
129	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Conducted RF Fields	IEC 61851-21-2
130	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Charger	Conducted Emission Test	IEC 61851-21-2
131	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Charger	Conducted Emission Test	IS 17017(Part 21/Sec 2):
132	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Charger	Radiated RF fields	IS 17017(Part 21/Sec 2)
133	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Conducted RF Fields	IEC 61851-21-2
134	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Electrostatic Discharge (Air and Contact Discharge)	IS 17017(Part 21/Sec 2)
135	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Fast Transient (Burst) on power / signal lines	IEC 61851-21-2
136	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Fast Transient (Burst) on power / signal lines	IS 17017(Part 21/Sec 2)
137	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Immunity to Surges	IEC 61851-21-2
138	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Immunity to Surges	IS 17017(Part 21/Sec 2)
139	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Immunity to Voltage Dips, Short Interruptions and Voltage Variation	IEC 61851 (Part 21-2)

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140	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Immunity to Voltage Dips, Short Interruptions and Voltage Variation	IS 17017(Part 21/Sec 2)
141	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Radiated Emission Test	IEC 61851-21-2
142	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Radiated Emission Test	IS 17017(Part 21/Sec 2)
143	ELECTRONICS- EMC TEST FACILITY	Electric Vehicles OFF Board Charger	Magnetic Fields	IEC 61851 (Part 21-2)
144	ELECTRONICS- EMC TEST FACILITY	Electric Vehicles OFF Board Charger	Magnetic Fields	IS 17017 (Part 21/Sec 2)
145	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles (2/3 Wheelers), Vehicle Electronic Systems /Sub-systems and other Components	Conducted Emission on AC or DC Power Lines & Network and telecommunication access from vehicle or ESA	ECE R-10 Rev.05 (Annex 13,14,19 & 20)
146	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles (2/3 Wheelers), Vehicle Electronic Systems /Sub-systems and other Components	Conducted Emission on AC or DC Power Lines & Network and telecommunication access from vehicle or ESA	ECE R-10 Rev.06 (Annex 13,14,19 & 20)
147	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles (2/3 Wheelers), Vehicle Electronic Systems /Sub-systems and other Components	Conducted Emission on AC or DC Power Lines & Network and telecommunication access from vehicle or ESA	AIS 004 (Part 3) Rev.1 (Annex 11,12,17 & 18)
148	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles(2/3 Wheelers), Vehicle Electronic Systems /Sub-systems and other Components	Electrical Fast Transient / Burst disturbances conducted along AC and DC power lines.	ECE R 10.06: (Annex 15 & 21)
149	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles(2/3 Wheelers), Vehicle Electronic Systems /Sub-systems and other Components	Electrical Fast Transient / Burst disturbances conducted along AC and DC power lines.	ECE R-10 Rev.05(Annex 15 & 21)
150	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles(2/3 Wheelers), Vehicle Electronic Systems /Sub-systems and other components	Immunity to Surges conducted along AC and DC power lines	ECE R-10 Rev.05 (Annex 16 & 22)
151	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles(2/3 Wheelers), Vehicle Electronic Systems /Sub-systems and other Components	Electrical Fast Transient / Burst disturbances conducted along AC and DC power lines.	AIS004:Part 3 Rev.1 (Annex 13 & 19)
152	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles(2/3 Wheelers), Vehicle Electronic Systems /Sub-systems and other Components	Immunity to Surges conducted along AC and DC power lines	AIS004:Part 3 Rev.1 (Annex 14 & 20)
153	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles(2/3 Wheelers), Vehicle Electronic Systems /Sub-systems and other Components	Immunity to Surges conducted along AC and DC power lines	ECE R-10 Rev.06 (Annex 16 & 22)

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154	ELECTRONICS- EMC TEST FACILITY	ISM equipment	Power frequency magnetic field	MORTH/CMVR/TAP/115-116/Part VIII/Chapter 1 IEC 61000-4-8:2009, IS 14700 (Part 4/Sec 8)
155	ELECTRONICS- EMC TEST FACILITY	ISM equipment	Radiated Immunity	MORTH/CMVR/TAP/115-116/Part VIII/Chapter 1: 2016 IEC 61000-4-3 Edition 4:2020 IS 14700 (Part 4/Sec 3)
156	ELECTRONICS- EMC TEST FACILITY	Military Equipment and Systems, Sub-system	Conducted Emissions, Audio Frequency Currents, Power Leads	CE101, MIL-STD-461G
157	ELECTRONICS- EMC TEST FACILITY	Military Equipment and Systems, Sub-system	Conducted Emissions, radio frequency potential, power leads	CE102, MIL-STD-461G
158	ELECTRONICS- EMC TEST FACILITY	Military Equipment and Systems, Sub-system	Radiated Emission (In ALSE Chamber)	RE102, MIL461 G
159	ELECTRONICS- EMC TEST FACILITY	Motor Vehicle (2/3 Wheelers)	Radiated Immunity (In ALSE chamber)	ISO 11451-2:2015 AIS004 (Part 3)/2009 (Annex 4) AIS004 (Part 3) Rev. 1 2019 (Annex 4) AIS076:2007 ECE R-10 Rev.05 (Annex 6) ECE R-10 Rev.06 (Annex 6) 97/24/EC Chapter 8 (Annex 4) SANS 20010:2010 (Annex 6)
160	ELECTRONICS- EMC TEST FACILITY	Motor Vehicle Electronic Systems / Sub-systems	Immunity to magnetic fields	MIL-461G (RS101): 2015, ISO 11452-8
161	ELECTRONICS- EMC TEST FACILITY	Motor Vehicles (2/3 Wheelers)	Radiated Emissions (In ALSE chamber)	CISPR 12:2009 AIS004(Part 1)/1999 AIS004(Part 3)/2009 (Annex 2 & 3) AIS004(Part 3) Rev.1 2019 (Annex 2 & 3) ECE R-10 Rev.05 (Annex 4 & 5) ECE R-10 Rev.06 (Annex 4 & 5) 97/24/EC Chapter 8 (Annex 2 & 3) SANS 20010:2010 (Annex 4 & 5)
162	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment ISM equipment	Radiated Emissions (In ALSE chamber)	TEC/SD/DD/EMC-221/05/OCT-16 CISPR 11:2016 CISPR 32
163	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM Equipment	Conducted Emissions	TEC/SD/DD/EMC-221/05/OCT-16 CISPR 11 :2016 CISPR 32
164	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM equipment	Conducted RF immunity on Power lines	TEC/SD/DD/EMC-221-05/OCT-16 IEC 61000-4-6

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165	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM Equipment	Electrostatic Discharge (Air and Contact Discharge)	MORTH/CMVR/TAP/115-116/Part VIII/Chapter TEC/SD/DD/EMC-221/05/OCT-16 IEC 61000-4-2
166	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM Equipment	Fast Transient (Burst) on power / signal lines	MORTH/CMVR/TAP/115-116/Part VIII/Chapter TEC/SD/DD/EMC-221/05/OCT-16 IEC 61000-4-4:2012 IS 14700 (Part 4/Sec 4)
167	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM Equipment	Immunity to Voltage Dips and Short Interruptions/ Power Fail Simulation	MORTH/CMVR/TAP/115-116/Part VIII/Chapter 1 TEC/SD/DD/EMC-221/05/OCT-16 IEC 61000-4-11
168	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM Equipment	Immunity to Surges	TEC/SD/DD/EMC-221/05/OCT-16 IEC 61000-4-5
169	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	BCI/Harness Excitation Method	AIS004:Part 3/2009 (Annex 8), AIS004:Part 3 Rev.1 2019 (Annex 8) AIS076:2007 ECE R-10 Rev.05 (Annex 10), ECE R-10 Rev.06 (Annex 10) SANS 20010:2010 (Annex 10); MIL-STD-461G (CS114), ISO 11452-4 Fifth Edition
170	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Conducted Emissions	CISPR 25 edition 4.0
171	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Electrostatic Discharge (Air and Contact Discharge)	ISO 10605:2008 AIS076:2007 IS 16490:2016, JASO D001-94 MIL-STD-461G (CS118), SAE J1113-13
172	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Immunity to narrowband radiated electromagnetic energy. Portable/Handy transmitters	ISO 11452-9
173	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Emissions (In ALSE chamber)	AIS:004(Part 1)/1999 AIS004 (Part 3)/2009 (Annex 5 & 6) AIS004 (Part 3) Rev.1 2019 (Annex 5 & 6), ECE R-10 Rev.05 (Annex 7 & 8), ECE R-10 Rev.06 (Annex 7 & 8) 97/24/EC Chapter 8 (Annex 5 & 6) SANS 20010:2010 (Annex 7 & 8) CISPR 25 edition 4.0
174	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Emissions (In ALSE chamber)	CISPR 25 edition 4.0

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175	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Immunity (In ALSE Chamber)	AIS004:Part 3/2009 (Annex 7),AIS004:Part 3 Rev. 1 2019 (Annex 7) ECE R-10 Rev.05 (Annex 9) ECE R-10 Rev.06 (Annex 9) 97/24/EC Chapter 8 (Annex 7) SANS 20010:2010 (Annex 9)
176	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Immunity (In ALSE Chamber)	SAE J1113-21:2005 (with ground Ref. plane method only) ISO 11452-2 fourth edition
177	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Immunity (Strip-Line)	AIS004:Part 3 (Annex 7)
178	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Immunity (Strip-Line)	AIS004:Part 3 Rev.1 (Annex 7)
179	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Immunity (Strip-Line)	AIS004:Part 3/2009 (Annex 8) AIS004:Part 3 Rev.1 2019 (Annex 8) AIS076:2007 ECE R-10 Rev.05 (Annex 10) ECE R-10 Rev.06 (Annex 10) SANS 20010:2010 (Annex 10);ISO 11452-5 second edition
180	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Immunity (Strip-Line)	ECE R- 10 Rev.05 (Annex 9)
181	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Immunity (Strip-Line)	ECE R-10 Rev.06 (Annex 9)
182	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components	Magnetic Field Emission Test	MIL 461G (RE101)
183	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems operating on vehicle battery supply	Immunity to coupled transient disturbances on lines other than power supply lines Positive and negative test pulse (fast/slow) (12 V and 24 V system)	AIS076:2007, ISO 7637-3
184	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems operating on vehicle battery supply	Conducted transient emissions on power supply lines	ISO 7637-2:2011(E) AIS004:Part 3/2009 (Annex 8),AIS004:Part 3 Rev.1 2019 (Annex 8), ECE R-10 Rev.05 (Annex 10) ECE R-10 Rev.06 (Annex 10)SANS 20010: (Annex 10)
185	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems operating on vehicle battery supply	Energy/Power Consumption	AIS076:2007 AIS140:2016 IS16833

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186	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems operating on vehicle battery supply	Immunity to conducted transient disturbances on power supply lines Test pulse 1 (12/24 V system) Test pulse 2a (12/24 V system) Test pulse 2b (12/24 V system) Test pulse 3a & 3b (12/24 V system) Test pulse 4 (12/24 V system) Load dump test pulse (12/24 V system), Waveform A1,A2,B1,B2,C	ISO 7637-2:2011(E), AIS004:Part 3 Rev.1 2019 (Annex 8), AIS004:Part 3/2009 (Annex 8), AIS076:2007 ECE R-10 Rev.05 (Annex 10) ECE R-10 Rev.06 (Annex 10) SANS 20010:2010 (Annex 10); For Load Dump - AIS076:2007, ISO7637-2:2004, ISO 16750-2
187	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems operating on vehicle battery supply	Insulation resistance (100 VDC to 500 VDC)	IS 16833: 2018, IS 16490: 2016, AIS 153: 2018, AIS 140: 2016, ISO19453-4:2018, ISO 16750-2
188	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems operating on vehicle battery supply	Superimposed alternating voltage. Slow decrease and increase of supply voltage. Discontinuities in supply voltage Withstand voltage Reverse Polarity Short Circuit DC Supply Voltage, Overvoltage, Reversed Voltage Open circuit tests	AIS076:2007 AIS140:2016 IS16833:2018, IS 16490:2016, ISO 19453-4:2018, ISO 16750-2
189	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems /Sub-systems	BCI/Harness Excitation Method	AIS004:Part 3 (Annex 7)
190	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems /Sub-systems	BCI/Harness Excitation Method	AIS004:Part 3 Rev.1 (Annex 7)
191	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems /Sub-systems	BCI/Harness Excitation Method	ECE R- 10 Rev.05 (Annex 9)
192	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems /Sub-systems	BCI/Harness Excitation Method	ECE R-10 Rev.06 (Annex 9)
193	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems /Sub-systems	BCI/Harness Excitation Method	ISO 11452- 4 Fourth Edition
194	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems /Sub-systems	BCI/Harness Excitation Method	ISO 11452-4 Third Edition
195	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems /Sub-systems	BCI/Harness Excitation Method	SANS 20010 (Annex 9)
196	ELECTRONICS- EMC TEST FACILITY	Vehicle location Tracking system/Intelligent Transport System	Function test requirement 1) Cold Start 2) Hot Start 3) Warm Start 4) Acquisition Sensitivity 5) Tracking Sensitivity	AIS-140:2016 ,IS 16833

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197	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electric Vehicle Conductive Charging System	Damp Heat Functional Test	IS 17017 (Part 1) Cl. 12.9
198	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electric Vehicle Conductive Charging System	Damp Heat Functional Test	IEC 61851-1 cl 12.9
199	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electric Vehicle Conductive Charging System	Maximum Temperature Functional Test	IS 17017 (Part 1) Cl 12.10.2
200	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electric Vehicle Conductive Charging System	Minimum Temperature Functional Test	IEC 61851-1 Cl 12.10
201	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electric Vehicle Conductive Charging System	Minimum Temperature Functional Test	IS 17017 (Part 1) Cl. 12.10.1
202	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Military Products,Electronic Systems / Sub-systems and other Components, Telecommunication equipment	Bump Test	JSS 55555:2012 (Test Number 5), IEC-60068-2-27: 2008, IS 9000 Part 7 Sec 2: 1979, QM 333
203	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components	Combined Temperature and Vibration Test	ISO 16750-3:2012, ISO 19453-3:2018, IEC 60068-2-64
204	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components	Performance Parametric (Tri Temperature/Tri Voltage) Test	IS 16833: 2018, AIS 153: 2018, AIS 076: 2007, AIS 140
205	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Military Product	Thermal Shock Test/ Rapid change of temperature with prescribed time of transfer. Rapid Temperature Cycling	IEC-60068-2-14 Na:2009 IS 9000(Part 14/Sec 1):1988 SAE J1455:2017 JASO D 001:1994 ISO 16750-4:2010(E), IS 16833: 2018, AIS 123 Part 1: 2013, AIS 123 Part 2: 2016, AIS 123 Part 3: 2016, ISO 19453-4: 2018, JSS 55555
206	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Military Products,	Mechanical Shock	JASO D 001-94 IEC 61373:2013 IEC-60068-2-27 :2008 AIS 048: 2009, IS 16833: 2018, AIS 156: 2019, AIS 123 Part 1: 2013, AIS 123 Part 2: 2016, AIS 123 Part 3: 2016, MoRTH / CMVR / TAP-115/116 (Issue 4), ISO 19453-3:2018, ISO 16750-3:2012, IS 9000 Part 7 Sec 1: 1979, MIL-STD-810H: 2019, JSS 55555

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207	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Military Products, Telecommunication Equipment	Cold Test / Low Temperature	IEC 60068-2-1:2007 IS 9000(Part 2):1977 JSS 55555 : 2012, IS 16833: 2018, IS 16490: 2016, AIS 153: 2018, AIS 076: 2007, AIS 140: 2016, MoRTH / CMVR / TAP-115/116 (Issue 4), ISO 16750-4:2010, 19453-4:2018, ISO 16750-4:2010, QM-333
208	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Military Products, Telecommunication Equipment	Composite temperature/humidity cyclic test / Tropical Exposure	IEC 60068-2-38:2021 IS 9000(Part 6):1978 JSS 55555 : 2012, QM-333
209	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Military Products, Telecommunication Equipment	Damp Heat, Steady State	IEC 60068-2-78:2012 IS 9000(Part 4):2008 JSS 55555:2012, MoRTH / CMVR / TAP-115/116 (Issue 4), ISO 19453-4:2018, ISO 16750-4:2010, QM-333
210	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Military Products, Telecommunication Equipment	Dry Heat Test / High Temperature Test	IEC 60068-2-2:2007 IS 9000(Part 3):1977 JSS 55555 : 2012, IS 16833:2018, IS 16490:2016, AIS 153:2018, AIS 076:2007, AIS 140:2016, AIS 123 Part 1:2013, AIS 123 Part 2:2016, AIS 123 Part 3:2016, MoRTH / CMVR / TAP-115/116 (Issue 4), ISO 19453-4:2018, ISO 16750-4:2010, QM-333
211	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Military Products, Telecommunication Equipment	Vibration Testing Sine and Random	JIS D 1601:1995 IEC-60068-2-64 :2008 SAE J1455:2017 SAE J1211:2012 IS 9000 (Part VIII):2003 IEC 60068-2-6:2007 ISO 16750-3:2012 JASO D 001-94, IS 16833:2018, IS 16490:2016, AIS 153:2018, AIS 076:2007, AIS 048:2009, AIS 140:2016, Policy 66301/Policy-07/DQA(N)/QA-07 Dated 09-Aug-2019, AIS 156:2019, AIS 038:2015, MoRTH / CMVR / TAP-115/116 (Issue 4), ISO 19453-3:2018, QM-333,JSS 55555 :2012 Rev 03, MIL-STD-810H: 2019, IEC/BS EN 61373:2010 Ed.2.0

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212	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Telecommunication Equipment	Damp Heat, cyclic (12 h + 12 h cycle)	IEC 60068-2-30:2005 IS 9000(Part 5/Sec 2):1981, IS 16833:2018, IS 16490:2016, AIS 153:2018, AIS 076:2007, AIS 140:2016, ISO 19453-4:2018, ISO 16750-4:2010,QM-333
213	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Telecommunication Equipment, Military Products	Thermal Cycling Change of temperature with specified change of temperature	SAE J1455:2017 IEC-60068-2-14 Nb:2009 IS 9000(Part 14/Sec 2):1988, ISO 16750-4:2010(E), Policy 66301/Policy-07/DQA(N)/QA-07 Dated 09-Aug-2019, AIS 038: 2015, AIS 156: 2019, ISO 19453-4:2018, QM-333
214	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Telecommunication Equipment, Military Products	Free Fall / Drop / Topple Test	ISO 16750-3:2012, ISO 19453-3:2018, IS 9002 : Part 11 : 1984, IS 9000 Part 7 Sec 3 and Sec 4: 1979, JSS 55555:2012, IEC 60068-2-31
215	MECHANICAL-AUTOMOTIVE COMPONENTS	5th Wheel coupling and mounting plate	Static test-1: Limit of deformation width under specified load Static test-2: Separation of coupling pin under specified load	AIS 091/Part 1, 2009 and ECE R55, 2018 Annexure 6 Clause No. 3.7.2.2
216	MECHANICAL-AUTOMOTIVE COMPONENTS	Anti-theft Devices (Device to prevent unauthorized use)	Lock Bolt Strength Test (Component level and vehicle level)	AIS: 074 ECE R 62; amendment 01 corrigendum 1 ECE R 116 Rev 2
217	MECHANICAL-AUTOMOTIVE COMPONENTS	Anti-theft Devices (Device to prevent unauthorized use)	Torque Test for Key (component level and vehicle level)	AIS: 074 ECE R 62; amendment 01 corrigendum 1 ECE R 116 Rev 2
218	MECHANICAL-AUTOMOTIVE COMPONENTS	Anti-theft devices (Device to prevent unauthorized use) – Locks the steering	Lock Bolt Strength Test	AIS: 075 - 2005 ECE R 18: Rev 3, 03 series of amendments ECE R 116 Rev 2
219	MECHANICAL-AUTOMOTIVE COMPONENTS	Anti-theft devices (Device to prevent unauthorized use) – Locks the steering	Torque Test for Key	AIS: 075 - 2005 ECE R 18: Rev 3, 03 series of amendments ECE R 116 Rev 2
220	MECHANICAL-AUTOMOTIVE COMPONENTS	Anti-theft devices (Device to prevent unauthorized use) – Locks the steering	Wear Producing Test	AIS: 075 - 2005 ECE R 18: Rev 3, 03 series of amendments ECE R 116 Rev 2
221	MECHANICAL-AUTOMOTIVE COMPONENTS	Auto Components	Fatigue and Static	SDL/TP/06

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222	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive component testing : Pneumatic Tyres for Two Wheeled Vehicles – Under Speed Capability of 150 km/h.	Plunger test	IS 15627
223	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Seats	Dimensional measurements of head restraint Width Depth Back Rest Height Torso Angle Longitudinal adjustment Arm Rest Height Arm Rest Width	i) IS 15546/2005 Cl. 4.4, 4.5, 4.6.1 ECE regulation no R 17, Revision 08/2009 CL 5.5, 5.7, 5.10 ii) ADR 03/3 year 2006 Amendment 1 - Cl.6.6 & 6.7 iii) SANS 20017:2004 iv) AIS 023/2005 Cl 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.4.2, 4.5.1 (Component Level dimensions)
224	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Seats	Energy Dissipation test	i) IS 15546/2005 Cl. 4.2.2, 4.2.3 ECE regulation No. R17, 08/2009 CL 5.5.2 ii) ADR 03/3 year 2006 Amendment 1- Cl. 6.8 iii) SANS 20017:2004 iv) AIS 023/2005 Cl. No. 4.2.3
225	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Seats	Head restraint performance test	i) IS 15546/2005 Cl. 4.7, reference standards ECE regulation no R 17, Revision 08/2009 Cl 5.12 ii) ADR 03/3 year 2006 Amendment 1 - Cl.6.4 iii) SANS 20017:2004 iv) AIS 023/2005 Cl No 4.2.3
226	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Seats	Seat Anchorage test	i) AIS 023/2005 Cl. 7.0
227	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Seats	Seat Back Strength test	i) IS 15546/2005 Cl. 4.3.1 reference standard ECE regulation no R 17, Revision 08/2009 Cl 6.2 ii) ADR 03/3 year 2006 Amendment 1 - Cl.6.2 iii) SANS 20017:2004 iv) AIS 023/2005 Cl No 4.2.3
228	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Seats	Seat Static Strength test	i) AIS 023/2005 Cl. 5.0
229	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles - Installation Requirements of Lighting and Light-Signalling Devices for L Category Vehicles, their Trailers and Semi – Trailers	i. Number ii. Arrangement iii. Position iv. Geometric Visibility v. Orientation vi. Electrical connection vii. Tell-tale viii. Other requirements if any	AIS-009 (Rev. 1) : 2011 ECE R53, October 2009 ECE R74, July

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230	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles - Installation Requirements of Lighting and Light-Signalling Devices for L Category Vehicles, their Trailers and Semi – Trailers	i. Number ii. Arrangement iii. Position iv. Geometric Visibility v. Orientation vi. Electrical connection vii. Tell-tale viii. Other requirements if any	AIS-009 (Rev. 1) : 2011 ECE R53, October 2009 ECE R74, July
231	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles - Installation Requirements of Lighting and Light-Signalling Devices for L Category Vehicles, their Trailers and Semi – Trailers	i. Number ii. Arrangement iii. Position iv. Geometric Visibility v. Orientation vi. Electrical connection vii. Tell-tale viii. Other requirements if any	AIS-009 (Rev. 1) : 2011 ECE R53, October 2009 ECE R74, July
232	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles - CNG / LPG - Refuelling Valve	Loading Test	AIS-026 (Version 3) cl no Appendix A, d :2002, AIS-028 (Version 3) :2011 cl no 2.2.4, c / AIS 028 (rev.1) (part-A):2021, cl no 2.2.4, c / AIS 028 (rev.1) (Part B) :2021, cl no 2.2.4 c. / AIS 028 (rev.1) (Part C) :2021, cl no 2.2.4
233	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles - Test on Hand-holds for 3W, 4W and moire than 4W motor vehicles - Ams 01 & 02	Strength Requirements	AIS:046 Amendments
234	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles- Conspicuity marking & mounting requirements on buses and trucks	Dimensional measurements of installation of Reflective tapes	AIS-090 Annex 7
235	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles- Installation of Lighting and Light-Signalling Devices for Agricultural Tractors	Flashing Frequency of Direction Indicator	AIS 030 (Revision-1)
236	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles- Installation of Lighting and Light-Signalling Devices for Agricultural Tractors	Geometric Visibility Test	AIS 030 (Revision-1)
237	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles- Installation of Lighting and Light-Signalling Devices for Agricultural Tractors	Installation Dimensional measurement of lighting and light signalling devices	AIS 030 (Revision-1)
238	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles- Rear View Mirrors Installation on Agricultural Tractor	Dimensional Measurements of Installation of Mirror	AIS-114
239	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles- Reflective Tape installation on 3-wheelers	Dimensional Measurements of Installation of Reflective Tapes	AIS 009 (Revision-1) Amendment Nos.: 1 to 3
240	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles- Requirements for Accelerator Control systems for Automotive vehicles	Throttle Return Time Measurement	IS14283

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241	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles- Requirements for Pillion Hand Hold for 2-wheeled vehicles	Strap / Hand grip test	IS14495
242	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles- Requirements for Stands fitted in Two Wheeled Motor Vehicles	Stand Retention System Test	AIS-146 with Amendment Nos.: 1
243	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles- Requirements for Stands fitted in Two Wheeled Motor Vehicles	Stand Tilting Test	AIS-146 with Amendment Nos.: 1
244	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles- Requirements for Stands fitted in Two Wheeled Motor Vehicles	Tests for Prop Stand and Center Stand	AIS-146 with Amendment Nos.: 1
245	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles- Tests on Hand-Holds for Three, Four and more than Four Wheeled Motor Vehicle	Cross Sectional Area Measurement	AIS-046 with Amendment Nos.: 1 & 2
246	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles- Tests on Hand-Holds for Three, Four and more than Four Wheeled Motor Vehicle	Dimensional requirements	AIS-046 with Amendment Nos.: 1 & 2
247	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Vehicles- Tests on Hand-Holds for Three, Four and more than Four Wheeled Motor Vehicle	Test on Grab handle, Hand-hold, Strap and Hand rail	AIS-046 Amendment Nos.: 1 & 2
248	MECHANICAL-AUTOMOTIVE COMPONENTS	BIW+Automotive Seat	Seat Belt Anchorage Test	i) IS 15139/2002 Cl No. 4.5; ECE R 14 Rev. 07/2012 cl. 6.1 to 6.4 excluding ISOFIX anchorages; ii) ADR 05/5 year 2006 Amendment 1 - Cl. 6.4 only iii) SANS 20014:2004
249	MECHANICAL-AUTOMOTIVE COMPONENTS	CNG Pressure Regulator, CNG Solenoid Valve, CNG Gas Air Mixer	Minimum Opening Voltage	ISO 15500: Part 9-2016, Part 6-2016, Part 11-2015 Part 2 – 2016 IS:15712-2006; IS:15713-2006; IS:15714
250	MECHANICAL-AUTOMOTIVE COMPONENTS	CNG Pressure Regulator, CNG Solenoid Valve, CNG Gas Air Mixer	Water Jacket Freezing	ISO 15500: Part 9-2016, Part 6-2016, Part 11-2015 Part 2 – 2016 IS:15712-2006; IS:15713-2006; IS:15714
251	MECHANICAL-AUTOMOTIVE COMPONENTS	CNG Pressure Regulator, CNG Solenoid Valve, CNG Gas Air Mixer, CNG Injector	Brass Material Compatibility	ISO 15500: Part 9-2016, Part 6-2016, Part-7-2015 Part 11-2015 Part 2 – 2016 IS:15712-2006; IS:15713-2006; IS:15714;

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252	MECHANICAL-AUTOMOTIVE COMPONENTS	CNG Pressure Regulator, CNG Solenoid Valve, CNG Gas Air Mixer, CNG Injector	Corrosion Resistance	ISO 15500: Part 9-2016, Part 6-2016, Part 7-2015, Part 11-2015 Part 2 – 2016 IS:15712-2006; IS:15713-2006; IS:15714
253	MECHANICAL-AUTOMOTIVE COMPONENTS	CNG Pressure Regulator, CNG Solenoid Valve, CNG Gas Air Mixer, CNG Injector	Excess Torque Resistance	ISO 15500: Part 9-2016, Part 6-2016, Part 7-2015, Part 11-2015 Part 2 – 2016 IS:15712-2006; IS:15713-2006; IS:15714
254	MECHANICAL-AUTOMOTIVE COMPONENTS	CNG Pressure Regulator, CNG Solenoid Valve, CNG Gas Air Mixer, CNG Injector	Hydro-static Pneumatic Strength	ISO 15500: Part 9-2016, Part 6-2016, Part 7-2015,Part 11-2015 Part 2 – 2016 IS:15712-2006; IS:15713-2006; IS:15714
255	MECHANICAL-AUTOMOTIVE COMPONENTS	CNG Pressure Regulator, CNG Solenoid Valve, CNG Gas Air Mixer, CNG Injector	Insulation Resistance	ISO 15500: Part 9-2016, Part 6-2016, Part 7 -2015, Part 11-2015 Part 2 – 2016 IS:15712-2006; IS:15713-2006; IS:15714
256	MECHANICAL-AUTOMOTIVE COMPONENTS	CNG Pressure Regulator, CNG Solenoid Valve, CNG Gas Air Mixer, CNG Injector	Leakage	ISO 15500: Part 9-2016, Part 6-2016,Part 7-2015, Part 11-2015 Part 2 – 2016 IS:15712-2006; IS:15713-2006; IS:15714
257	MECHANICAL-AUTOMOTIVE COMPONENTS	CNG Pressure Regulator, CNG Solenoid Valve, CNG Gas Air Mixer, CNG Injector	Pressure Impulse	ISO 15500: Part 9-2016, Part 6-2016, Part 7-2015 Part 11-2015 Part 2 – 2016 IS:15712-2006; IS:15713-2006; IS:15714
258	MECHANICAL-AUTOMOTIVE COMPONENTS	CNG Pressure Regulator, CNG Solenoid Valve, CNG Gas Air Mixer, CNG Injector	Vibration Resistance	ISO 15500: Part 9-2016, Part 6-2016, Part 7- 2015,Part 11-2015 Part 2 – 2016 IS:15712-2006; IS:15713-2006; IS:15714
259	MECHANICAL-AUTOMOTIVE COMPONENTS	CNG Rigid Piping and Connections	Burst Pressure Test	AIS 028- 2011 Clause No.3.1.1 IS:15716 / AIS 028 (Rev-1) (Part-A):2021, cl no. 3.1.1 AIS 028 (Rev-1) (Part-B):2021, cl no. 3.1.1 AIS 028 (Rev-1) (Part-C):2021, cl no. 3.1.1
260	MECHANICAL-AUTOMOTIVE COMPONENTS	CNG Rigid Piping and Connections	Corrosion Resistance Test	ASTM B117

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261	MECHANICAL-AUTOMOTIVE COMPONENTS	Cycle Retro Reflecting Devices	Impact Test (Cl. No. 7.1.2.3)	IS/ISO 6742-2
262	MECHANICAL-AUTOMOTIVE COMPONENTS	Cycle Retro Reflecting Devices	Moisture Resistance Test (Cl. No. 7.1.2.4)	IS/ISO 6742-2
263	MECHANICAL-AUTOMOTIVE COMPONENTS	Cycle Retro Reflecting Devices	Resistance to corrosion (Cl. No. 7.1.2.6)	IS/ISO 6742-2
264	MECHANICAL-AUTOMOTIVE COMPONENTS	Cycle Retro Reflecting Devices	Resistance to fuels test (Cl. No. 7.1.2.7)	IS/ISO 6742-2
265	MECHANICAL-AUTOMOTIVE COMPONENTS	Cycle Retro Reflecting Devices	Resistance to lubricating oils (Cl. No. 7.1.2.8)	IS/ISO 6742-2
266	MECHANICAL-AUTOMOTIVE COMPONENTS	Cycle Retro Reflecting Devices	Temperature Resistance Test (Cl. No. 7.1.2.2)	IS/ISO 6742-2
267	MECHANICAL-AUTOMOTIVE COMPONENTS	Door Hinges & Latches	Longitudinal / Transverse Load Test and Orthogonal to the Longitudinal and Transverse Load Test for Hinges & Latches	IS: 14225-1995 IS: 14225-2017 ECE R-11-03 supplement 03 to the 03 & 04 series of amendments SANS:20011
268	MECHANICAL-AUTOMOTIVE COMPONENTS	Driver’s Forward Field of Vision	Driver’s Forward Field of Vision	AIS:021-2011 Amendment 1 EEC 77/649
269	MECHANICAL-AUTOMOTIVE COMPONENTS	Earth-Moving Machinery – Lighting, Signalling and Marking Lights and Reflex- Reflector Devices.	General requirements for Geometric Visibility of Light and Light Signalling Devices(Physical Verification)	IS/ISO 12509
270	MECHANICAL-AUTOMOTIVE COMPONENTS	Earth-Moving Machinery – Lighting, Signalling and Marking Lights and Reflex- Reflector Devices.	General requirements for Number of Light and Light Signalling Devices (Physical Verification)	IS/ISO 12509
271	MECHANICAL-AUTOMOTIVE COMPONENTS	Earth-Moving Machinery – Lighting, Signalling and Marking Lights and Reflex- Reflector Devices.	General requirements of Arrangement of Lighting and Signalling devices (Physical Verification)	IS/ISO 12509
272	MECHANICAL-AUTOMOTIVE COMPONENTS	Earth-Moving Machinery – Lighting, Signalling and Marking Lights and Reflex- Reflector Devices.	General requirements of Electrical Connections for Light and Light Signalling Devices (Physical Verification)	IS/ISO 12509

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273	MECHANICAL-AUTOMOTIVE COMPONENTS	Earth-Moving Machinery – Lighting, Signalling and Marking Lights and Reflex- Reflector Devices.	General requirements of Orientation of Light and Light Signalling Devices(Physical Verification)	IS/ISO 12509
274	MECHANICAL-AUTOMOTIVE COMPONENTS	Earth-Moving Machinery – Lighting, Signalling and Marking Lights and Reflex- Reflector Devices.	General requirements of Tell Tales of Light and Signalling Devices(Physical Verification)	IS/ISO 12509
275	MECHANICAL-AUTOMOTIVE COMPONENTS	Earth-Moving Machinery – Lighting, Signalling and Marking Lights and Reflex- Reflector Devices.	Measurement of position of Light and Light Signalling Devices	IS/ISO 12509
276	MECHANICAL-AUTOMOTIVE COMPONENTS	Electrical Fuse	Electrical Fuse Test	AIS 026: 2002 Clause No.12 (c) AIS 028: 2011 Clause No.4.3.3 AIS 028 (Rev-1) (Part-A):2021, cl no. 4.3.3 AIS 028 (Rev-1) (Part-B):2021, cl no. 4.3.3 AIS 028 (Rev-1) (Part-C):2021, cl no. 4.3.3
277	MECHANICAL-AUTOMOTIVE COMPONENTS	Electrical Fuse	Electrical Fuse Test	AIS 026: 2002 Clause No.12 (c) AIS 028 (Rev-1) (Part-A):2021, cl no. 4.3.3 AIS 028 (Rev-1) (Part-B):2021, cl no. 4.3.3 AIS 028 (Rev-1) (Part-C):2021, cl no. 4.3.3
278	MECHANICAL-AUTOMOTIVE COMPONENTS	Fifth wheel Coupling and mounting plate	Dynamic test Number of cycles for test pass or fail Horizontal force Vertical force	AIS 091/Part 1, 2019 and ECE R55, 2018, Annexure 6, Clause No. 2.2 and 3.7.3.1
279	MECHANICAL-AUTOMOTIVE COMPONENTS	Fifth wheel King pin	Dynamic test Number of cycles for test pass or fail Load	AIS 091/Part 1, 2009 and ECE R55, 2018, Annexure 5 , Clause 8.Annexure 6, Clause No. 2.2 and 3.9.
280	MECHANICAL-AUTOMOTIVE COMPONENTS	Flexible hoses	Bursting Pressure Test	IS 9573-Part-1 / AIS 026 (cl no 9 (ii) (a))
281	MECHANICAL-AUTOMOTIVE COMPONENTS	Flexible hoses	Electrical continuity test	IS 9573-Part-1
282	MECHANICAL-AUTOMOTIVE COMPONENTS	Flexible hoses	Flexibility of Hose test	IS 9573-Part-1
283	MECHANICAL-AUTOMOTIVE COMPONENTS	Flexible hoses	Low Temperature Flexibility test	IS 9573-Part-1

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284	MECHANICAL-AUTOMOTIVE COMPONENTS	Flexible hoses	Ozone Resistance Test	IS 9573-Part-1
285	MECHANICAL-AUTOMOTIVE COMPONENTS	Flexible hoses	Proof Pressure test	IS 9573-Part-1
286	MECHANICAL-AUTOMOTIVE COMPONENTS	Float Glass	Defects on cut side	IS 14900
287	MECHANICAL-AUTOMOTIVE COMPONENTS	Float Glass	Dimension (Length / Width)	IS 14900
288	MECHANICAL-AUTOMOTIVE COMPONENTS	Float Glass	Optical fault	IS 14900
289	MECHANICAL-AUTOMOTIVE COMPONENTS	Float Glass	Thickness	IS 14900
290	MECHANICAL-AUTOMOTIVE COMPONENTS	Float Glass	Tin side detection by UV light source	IS 14900
291	MECHANICAL-AUTOMOTIVE COMPONENTS	Float Glass	Visual Faults	IS 14900
292	MECHANICAL-AUTOMOTIVE COMPONENTS	Hand-holds for occupants for other than 2W and M1 category	Dimensional requirements (Area)	AIS:046 Amendment2
293	MECHANICAL-AUTOMOTIVE COMPONENTS	Hand-holds for occupants for other than 2W and M1 category	Dimensional requirements (Height)	AIS:046 Amendment2
294	MECHANICAL-AUTOMOTIVE COMPONENTS	High Security Registration Plate (HSRP)	Adhesion test	AIS:159 – 2019, ISO:7591
295	MECHANICAL-AUTOMOTIVE COMPONENTS	High Security Registration Plate (HSRP)	Bending Resistance test	AIS:159 – 2019, ISO:7591
296	MECHANICAL-AUTOMOTIVE COMPONENTS	High Security Registration Plate (HSRP)	Durability	AIS:159 – 2019, ISO:7591
297	MECHANICAL-AUTOMOTIVE COMPONENTS	High Security Registration Plate (HSRP)	General Specification (Dimensional Measurement)	AIS:159 , cl.no.6.4

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298	MECHANICAL-AUTOMOTIVE COMPONENTS	High Security Registration Plate (HSRP)	Impact Resistance test	AIS:159 – 2019, ISO:7591
299	MECHANICAL-AUTOMOTIVE COMPONENTS	High Security Registration Plate (HSRP)	Resistance to Saline mist test	AIS:159 – 2019, ISO:7591
300	MECHANICAL-AUTOMOTIVE COMPONENTS	High Security Registration Plate (HSRP)	Temperature Resistance test	AIS:159 – 2019, ISO:7591
301	MECHANICAL-AUTOMOTIVE COMPONENTS	High Security Registration Plate (HSRP)	Water Resistance	AIS:159 – 2019, ISO:7591
302	MECHANICAL-AUTOMOTIVE COMPONENTS	Horn	Continuous Operation Test	IS 1884 :1993 ECE R-28- Rev. 2 (Amendment 3, Supplement 3 to original version of the regulation) SANS: 20028
303	MECHANICAL-AUTOMOTIVE COMPONENTS	Horn	Corrosion Resistance Test	IS 1884 :1993 ECE R-28- Rev. 2 (Amendment 3, Supplement 3 to original version of the regulation) SANS: 20028
304	MECHANICAL-AUTOMOTIVE COMPONENTS	Horn	Current Draw Test	IS 1884 :1993 ECE R-28- Rev. 2 (Amendment 3, Supplement 3 to original version of the regulation) SANS: 20028
305	MECHANICAL-AUTOMOTIVE COMPONENTS	Horn	Damp Heat Test (Cycling test)	IS 1884 :1993 ECE R-28- Rev. 2 (Amendment 3, Supplement 3 to original version of the regulation) SANS: 20028
306	MECHANICAL-AUTOMOTIVE COMPONENTS	Horn	Dust Test	IS 1884 :1993 ECE R-28- Rev. 2 (Amendment 3, Supplement 3 to original version of the regulation) SANS: 20028
307	MECHANICAL-AUTOMOTIVE COMPONENTS	Horn	Endurance	IS 1884 :1993 ECE R-28- Rev. 2 (Amendment 3, Supplement 3 to original version of the regulation) SANS: 20028
308	MECHANICAL-AUTOMOTIVE COMPONENTS	Horn	High Voltage Test	IS 1884 :1993 ECE R-28- Rev. 2 (Amendment 3, Supplement 3 to original version of the regulation) SANS: 20028

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309	MECHANICAL-AUTOMOTIVE COMPONENTS	Horn	Measurement of Sound Level	IS 1884 :1993 ECE R-28- Rev. 2 (Amendment 3, Supplement 3 to original version of the regulation) SANS: 20028
310	MECHANICAL-AUTOMOTIVE COMPONENTS	Horn	Operating Voltage Range Test	IS 1884 :1993 ECE R-28- Rev. 2 (Amendment 3, Supplement 3 to original version of the regulation) SANS: 20028
311	MECHANICAL-AUTOMOTIVE COMPONENTS	Horn	Sound Spectrum (1.6 kHz to 4 kHz)	IS 1884 :1993 ECE R-28- Rev. 2 (Amendment 3, Supplement 3 to original version of the regulation) SANS: 20028
312	MECHANICAL-AUTOMOTIVE COMPONENTS	Horn	Temp Stability Test	IS 1884 :1993 ECE R-28- Rev. 2 (Amendment 3, Supplement 3 to original version of the regulation) SANS: 20028
313	MECHANICAL-AUTOMOTIVE COMPONENTS	Horn	Vibration Test	IS 1884 :1993 ECE R-28- Rev. 2 (Amendment 3, Supplement 3 to original version of the regulation) SANS: 20028
314	MECHANICAL-AUTOMOTIVE COMPONENTS	Horn	Water Spray Proof Test	IS 1884 :1993 ECE R-28- Rev. 2 (Amendment 3, Supplement 3 to original version of the regulation) SANS: 20028
315	MECHANICAL-AUTOMOTIVE COMPONENTS	Horn Installation	Horn Installation Testing	IS 15796 ECE R28; amendment 3 supplement 3
316	MECHANICAL-AUTOMOTIVE COMPONENTS	Hydraulic Brake Hose	Brake Fluid Compatibility	IS:7079
317	MECHANICAL-AUTOMOTIVE COMPONENTS	Hydraulic Brake Hose	Burst Test	IS:7079
318	MECHANICAL-AUTOMOTIVE COMPONENTS	Hydraulic Brake Hose	Cold Bend Test	IS:7079
319	MECHANICAL-AUTOMOTIVE COMPONENTS	Hydraulic Brake Hose	Constriction Test	IS:7079
320	MECHANICAL-AUTOMOTIVE COMPONENTS	Hydraulic Brake Hose	Expansion Test	IS:7079

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321	MECHANICAL-AUTOMOTIVE COMPONENTS	Hydraulic Brake Hose	Hot Impulse Strength Test	IS:7079
322	MECHANICAL-AUTOMOTIVE COMPONENTS	Hydraulic Brake Hose	Ozone Resistance Test	IS:7079
323	MECHANICAL-AUTOMOTIVE COMPONENTS	Hydraulic Brake Hose	Pressure test	IS:7079
324	MECHANICAL-AUTOMOTIVE COMPONENTS	Hydraulic Brake Hose	Salt Spray Test	IS:7079
325	MECHANICAL-AUTOMOTIVE COMPONENTS	Hydraulic Brake Hose	Tensile Test	IS:7079
326	MECHANICAL-AUTOMOTIVE COMPONENTS	Hydraulic Brake Hose	Visual Examination	IS:7079
327	MECHANICAL-AUTOMOTIVE COMPONENTS	Hydraulic Brake Hose	Water Absorption Test	IS:7079
328	MECHANICAL-AUTOMOTIVE COMPONENTS	Hydraulic Brake Hose	Whip Test	IS:7079
329	MECHANICAL-AUTOMOTIVE COMPONENTS	Installation Requirements of Lighting and Light-Signalling Devices for Motor Vehicle having more than Three Wheels, Trailer and Semi-Trailer excluding Agricultural Tractor and Special Purpose Vehicle	i. Presence ii. Number iii. Arrangement iv. Position v. Geometric Visibility vi. Orientation vii. Electrical connection viii. Tell-tale ix. Other requirements if any	AIS:008 (Rev. 1):2010 ECE R48
330	MECHANICAL-AUTOMOTIVE COMPONENTS	Installation Requirements of Lighting and Light-Signalling Devices for Motor Vehicle having more than Three Wheels, Trailer and Semi-Trailer excluding Agricultural Tractor and Special Purpose Vehicle	i. Presence ii. Number iii. Arrangement iv. Position v. Geometric Visibility vi. Orientation vii. Electrical connection viii. Tell-tale ix. Other requirements if any	AIS:008 (Rev. 1):2010 ECE R48
331	MECHANICAL-AUTOMOTIVE COMPONENTS	Installation Requirements of Lighting and Light-Signalling Devices for Motor Vehicle having more than Three Wheels, Trailer and Semi-Trailer excluding Agricultural Tractor and Special Purpose Vehicle	i. Presence ii. Number iii. Arrangement iv. Position v. Geometric Visibility vi. Orientation vii. Electrical connection viii. Tell-tale ix. Other requirements if any	AIS:008 (Rev. 1):2010 ECE R48

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332	MECHANICAL-AUTOMOTIVE COMPONENTS	LPG Pressure Regulator, LPG Solenoid Valve, Gas Air Mixer	Corrosion Resistance	ECE R-67-04
333	MECHANICAL-AUTOMOTIVE COMPONENTS	LPG Pressure Regulator, LPG Solenoid Valve, Gas Air Mixer	Creep	ECE R-67-04
334	MECHANICAL-AUTOMOTIVE COMPONENTS	LPG Pressure Regulator, LPG Solenoid Valve, Gas Air Mixer	External Leakage	ECE R-67-04
335	MECHANICAL-AUTOMOTIVE COMPONENTS	LPG Pressure Regulator, LPG Solenoid Valve, Gas Air Mixer	High Temperature	ECE R-67-04
336	MECHANICAL-AUTOMOTIVE COMPONENTS	LPG Pressure Regulator, LPG Solenoid Valve, Gas Air Mixer	Low temperature	ECE R-67-04
337	MECHANICAL-AUTOMOTIVE COMPONENTS	LPG Pressure Regulator, LPG Solenoid Valve, Gas Air Mixer	Over Pressure	ECE R-67-04
338	MECHANICAL-AUTOMOTIVE COMPONENTS	LPG Pressure Regulator, LPG Solenoid Valve, Gas Air Mixer	Seat Leakage	ECE R-67-04
339	MECHANICAL-AUTOMOTIVE COMPONENTS	LPG Pressure Regulator, LPG Solenoid Valve, Gas Air Mixer	Temperature Cycle	ECE R-67-04
340	MECHANICAL-AUTOMOTIVE COMPONENTS	LPG Pressure Regulator, LPG Solenoid Valve, Gas Air Mixer,CNG Pressure Regulator, CNG Solenoid Valve, Gas Air Mixer,Injector	Resistance to Dry Heat	ECE R-67-04-2014,ISO 15500
341	MECHANICAL-AUTOMOTIVE COMPONENTS	LPG Rigid Piping and Connections	Pressure Test	AIS 026: 2002 Clause No.9 (a) (i
342	MECHANICAL-AUTOMOTIVE COMPONENTS	Metallic Fuel Tank for 2 and 3 W	Leak Tightness Test	EEC 97/24 Annex-1 Cl. No. 1.3, IS 14681 Cl. No 3.1
343	MECHANICAL-AUTOMOTIVE COMPONENTS	Metallic Fuel Tank for 2 and 3 W	Leakage Test	EEC 97/24 Annex-1 Cl. No. 1.3, IS 14681 Cl. No 3.2
344	MECHANICAL-AUTOMOTIVE COMPONENTS	Metallic- Fuel Tank for 4 Wheeler	Hydraulic test (Pressure test)	AIS 095, Cl. No. 4.1 AIS 104, Cl. No. 4.1.3 ECE R 34 (Cl.6.1): 2001, IS 16219 - CL. No. 5.1
345	MECHANICAL-AUTOMOTIVE COMPONENTS	Metallic- Fuel Tank for 4 Wheeler	Overturn test (Leakage test)	AIS 104, Cl. No. 4.1.1, AIS 095, Cl. No. 4.2 :2007, IS 16219 -CL. No. 5.2

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346	MECHANICAL-AUTOMOTIVE COMPONENTS	Metallic- Fuel Tank for 4 Wheeler	Vent Size (dia)	IS 12056: 1987 Cl. No. 4.2
347	MECHANICAL-AUTOMOTIVE COMPONENTS	New pneumatic tyres for tyres of Classes C1, C2 and C3 with regard to their rolling resistance	Rolling Resistance Coefficient	AIS 142-2019 Annexure D, UN R117 Revision 4 -Annex 6, ISO 28580
348	MECHANICAL-AUTOMOTIVE COMPONENTS	Non-Metallic Fuel Tank for 2 and 3 W	Fire Resistance Test	IS 14681: 1999 Cl No 4.5 EEC 97/24 Cl. No. 2.5
349	MECHANICAL-AUTOMOTIVE COMPONENTS	Non-Metallic Fuel Tank for 2 and 3 W	Fuel Resistance Test	IS 14681: 1999 Cl No 4.4 EEC 97/24 Cl. No. 2.4
350	MECHANICAL-AUTOMOTIVE COMPONENTS	Non-Metallic Fuel Tank for 2 and 3 W	High Temperature Test	IS 14681: 1999 Cl No 4.6 EEC 97/24 Cl. No. 2.6
351	MECHANICAL-AUTOMOTIVE COMPONENTS	Non-Metallic Fuel Tank for 2 and 3 W	Leak Tightness Test	IS 14681: 1999 Cl No 3.1 EEC 97/24 Annex-I Cl. No. 1.3
352	MECHANICAL-AUTOMOTIVE COMPONENTS	Non-Metallic Fuel Tank for 2 and 3 W	Leakage Test	IS 14681: 1999 Cl No 3.2 EEC 97/24 Annex-I Cl. No. 1.3
353	MECHANICAL-AUTOMOTIVE COMPONENTS	Non-Metallic Fuel Tank for 2 and 3 W	Mechanical Strength Test	IS 14681: 1999 Cl No 4.3 EEC 97/24 Cl. No. 2.3
354	MECHANICAL-AUTOMOTIVE COMPONENTS	Non-Metallic Fuel Tank for 2 and 3 W	Permeability Test	IS 14681: 1999 Cl No 4.1 EEC 97/24 Cl. No. 2.1.1
355	MECHANICAL-AUTOMOTIVE COMPONENTS	Non-Metallic Fuel Tank for 2 and 3 W	Shock Test	IS 14681: 1999 Cl No 4.2 EEC 97/24 Cl. No. 2.2
356	MECHANICAL-AUTOMOTIVE COMPONENTS	Pillion hand-holds system for 2W	Strength test	IS:14495
357	MECHANICAL-AUTOMOTIVE COMPONENTS	Plastic Fuel Tank for Four wheelers	Fire resistance test	IS 15547, UN R 34.03- Annex 5
358	MECHANICAL-AUTOMOTIVE COMPONENTS	Plastic Fuel Tank for Four wheelers	Fuel resistance test	IS 15547, UN R 34.03, Annex 5 - cl. no 4
359	MECHANICAL-AUTOMOTIVE COMPONENTS	Plastic Fuel Tank for Four wheelers	High temperature test	IS 155472005, UN R 34.03 Annex 5 cl no 6

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360	MECHANICAL-AUTOMOTIVE COMPONENTS	Plastic Fuel Tank for Four wheelers	Impact resistance test	IS 15547:2005, UN R34.03, Annex 5 cl no 1
361	MECHANICAL-AUTOMOTIVE COMPONENTS	Plastic Fuel Tank for Four wheelers	Mechanical Strength	IS 15547:2005, UN R 34.03 Annex 5 cl no 2
362	MECHANICAL-AUTOMOTIVE COMPONENTS	Plastic Fuel Tank for Four wheelers	Overturn Test	IS 15547:2005, UN R 34.03 cl no 6.2
363	MECHANICAL-AUTOMOTIVE COMPONENTS	Plastic Fuel Tank for Four wheelers	Pressure Test	IS 155472005, UN R 34.03 cl. no 6.1
364	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Commercial Vehicles Diagonal and Radial Ply	Dimensional Check Section width of Tyre	IS 15636: 2012 AIS:110 ECE R No. 54 amendment No.2 Rev No.2 SANS:20054
365	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Commercial Vehicles Diagonal and Radial Ply	Dimensional Check Tyre Outer Diameter	IS 15636: 2012 AIS:110 ECE R No. 54 amendment No.2 Rev No.2 SANS:20054
366	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Commercial Vehicles Diagonal and Radial Ply	Endurance Test	IS 15636: 2012 ECE R No. 54 SANS:20054
367	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Commercial Vehicles Diagonal and Radial Ply	Load/Speed Performance Test	IS 15636: 2012 AIS:110 - 2009 ECE R No. 54 amendment No.2 Rev No.2 SANS:20054
368	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Commercial Vehicles Diagonal and Radial Ply	Load/Speed Performance Test	IS 15636: 2012 AIS:110 - 2009 ECE R No. 54 amendment No.2 Rev No.2 SANS:20054
369	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Commercial Vehicles Diagonal and Radial Ply	Markings	IS 15636: 2012 AIS:110-2009 ECE R No. 54 amendment No.2 Rev No.2 SANS:20054
370	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Commercial Vehicles Diagonal and Radial Ply	Tread-Wear -Indicators	IS 15636: 2012 AIS:110-2009 ECE R No. 54 amendment No.2 Rev No.2 SANS:20054
371	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Commercial Vehicles Diagonal and Radial Ply	Tyre Strength Test	IS 15636: 2012 AIS:110
372	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	Bead Unseating Resistance Test for Tubeless Tyre	IS:15633 amendment 5 Feb 2021 AIS:110
373	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	Bead Unseating Resistance Test for Tubeless Tyre	IS:15633 amendment 5 Feb 2021 AIS:110

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374	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	Dimensional Check Tyre Outer Diameter	IS:15633 amendment 5 Feb 2021 AIS:110 ECE R 30 amendment No.2 Rev No.3 ADR 23 SANS:20030
375	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	Dimensional Check Section width of Tyre	IS:15633 amendment 5 Feb 2021 AIS:110 ECE R 30 amendment No.2 Rev No.3 ADR 23 SANS:20030
376	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	Endurance Test	IS:15633 amendment 5 Feb
377	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	Endurance Test	IS:15633 amendment 5 Feb
378	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	Endurance Test	IS:15633 amendment 5 Feb
379	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	iv) Bead Unseating Resistance Test for Tubeless Tyre	IS:15633 amendment 5 Feb 2021 AIS:110
380	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	Load/Speed Performance Test	IS:15633 amendment 5 Feb 2021 AIS:110 ECE R 30 amendment No.2 Rev No.3 ADR 23 SANS:20030
381	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	Load/Speed Performance Test	IS:15633 amendment 5 Feb 2021 AIS:110 ECE R 30 amendment No.2 Rev No.3 ADR 23 SANS:20030
382	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	Load/Speed Performance Test	IS:15633 amendment 5 Feb 2021 AIS:110 ECE R 30 amendment No.2 Rev No.3 ADR 23 SANS:20030
383	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	Load/Speed Performance Test	IS:15633 amendment 5 Feb 2021 AIS:110 ECE R 30 amendment No.2 Rev No.3 ADR 23 SANS:20030
384	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	Markings	IS:15633 amendment 5 Feb 2021 AIS:110 ECE R 30 amendment No.2 Rev No.3 ADR 23 SANS:20030

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385	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	Tread-Wear -Indicators	IS:15633 amendment 5 Feb 2021 AIS:110 ECE R 30 amendment No.2 Rev No.3 ADR 23 SANS:20030
386	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Passenger Car Vehicles Diagonal and Radial Ply	Tyre Strength Test	IS:15633 amendment 5 Feb 2021 AIS:110
387	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Two Wheeled Vehicles – Under Speed Capability of 150 km/h	Dimension Test Diameter of Tyre	IS 15627
388	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Two Wheeled Vehicles – Under Speed Capability of 150 km/h	Dimension Test Section width of Tyre	IS 15627
389	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Two Wheeled Vehicles – Under Speed Capability of 150 km/h	Dimension Test Tread wear indicators	IS 15627
390	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Two Wheeled Vehicles – Under Speed Capability of 150 km/h	Endurance Test	IS 15627
391	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Two Wheeled Vehicles – Under Speed Capability of 150 km/h	Endurance test	IS 15627
392	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Two Wheeled Vehicles – Under Speed Capability of 150 km/h	Endurance Test	IS 15627
393	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Two Wheeled Vehicles – Under Speed Capability of 150 km/h	Load Speed Performance Test	IS 15627
394	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Two Wheeled Vehicles – Under Speed Capability of 150 km/h	Load Speed Performance Test	IS 15627
395	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Two Wheeled Vehicles – Under Speed Capability of 150 km/h	Markings	IS 15627
396	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Two Wheeled Vehicles – Under Speed Capability of 150 km/h	Plunger Test	IS 15627
397	MECHANICAL-AUTOMOTIVE COMPONENTS	Pneumatic Tyres for Two Wheeled Vehicles – Under Speed Capability of 150 km/h	Plunger Test	IS 15627

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398	MECHANICAL-AUTOMOTIVE COMPONENTS	Rear Marking Plates for Heavy and Long Vehicles	Dimensional requirements (Height)	AIS:089 (Annex 13) -2005/ AIS:008 Rev2 (Cl No. 6.21)
399	MECHANICAL-AUTOMOTIVE COMPONENTS	Rear Marking Plates for Heavy and Long Vehicles	Geometric Visibility	AIS:089 (Annex 13) -2005/AIS:008 Rev2 (Cl No. 6.21)
400	MECHANICAL-AUTOMOTIVE COMPONENTS	Rear View Mirror	Bending Test	ECE R 81 – Amendment 1 Supplement 2 to the 00 series of amendments. ECE R-46, Rev 3, Supplement 4 to the 02 series of amendments. ADR 14, 2006 Amendment 1 AIS:001, Rev01, Part1 and Part 2
401	MECHANICAL-AUTOMOTIVE COMPONENTS	Rear View Mirror	Co-efficient of Reflection	ECE R 81 – Amendment 1 Supplement 2 to the 00 series of amendments. ECE R-46, Rev 3, Supplement 4 to the 02 series of amendments. ADR 14, 2006 Amendment 1 AIS:001, Rev01, Part1 and Part 2
402	MECHANICAL-AUTOMOTIVE COMPONENTS	Rear View Mirror	Impact Test	ECE R 81 – Amendment 1 Supplement 2 to the 00 series of amendments. ECE R-46, Rev 3, Supplement 4 to the 02 series of amendments. ADR 14, 2006 Amendment 1 AIS:001, Rev01, Part1 and Part 2
403	MECHANICAL-AUTOMOTIVE COMPONENTS	Rear View Mirror	Mirror Dimensions	ECE R 81 – Amendment 1 Supplement 2 to the 00 series of amendments. ECE R-46, Rev 3, Supplement 4 to the 02 series of amendments. ADR 14, 2006 Amendment 1 AIS:001, Rev01, Part1 and Part 2
404	MECHANICAL-AUTOMOTIVE COMPONENTS	Rear View Mirror	Mirror Dimensions	ECE R 81 – Amendment 1 Supplement 2 to the 00 series of amendments. ECE R-46, Rev 3, Supplement 4 to the 02 series of amendments. ADR 14, 2006 Amendment 1 AIS:001, Rev01, Part1 and Part 2

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405	MECHANICAL-AUTOMOTIVE COMPONENTS	Rear View Mirror	Radius of Curvature	ECE R 81 – Amendment 1 Supplement 2 to the 00 series of amendments. ECE R-46, Rev 3, Supplement 4 to the 02 series of amendments. ADR 14, 2006 Amendment 1 AIS:001, Rev01, Part1 and Part 2
406	MECHANICAL-AUTOMOTIVE COMPONENTS	Rear View Mirror Installation Test	Field of Vision Test	AIS 002 (Part 1) (Rev. 1) :2011 AIS 002 (Part 2) (Rev. 1) :2011 ECE R46 Rev4, 03 series of amendments SANS:20046
407	MECHANICAL-AUTOMOTIVE COMPONENTS	Rear View Mirror Installation Test	High Speed Test	AIS 002 (Part 1) (Rev. 1) :2011 AIS 002 (Part 2) (Rev. 1) :2011 ECE R46 Rev4, 03 series of amendments SANS:20046
408	MECHANICAL-AUTOMOTIVE COMPONENTS	Rear View Mirror Installation Test	Test for Rear View Mirror Position	AIS 002 (Part 1) (Rev. 1) :2011 AIS 002 (Part 2) (Rev. 1) :2011 ECE R46 Rev4, 03 series of amendments SANS:20046
409	MECHANICAL-AUTOMOTIVE COMPONENTS	Requirements of defrosting system	Defrost test for M1 category	AIS:84 Part 2
410	MECHANICAL-AUTOMOTIVE COMPONENTS	Requirements of demisting system	Demist test for M1 category	AIS:84 Part 1, EEC 78/317
411	MECHANICAL-AUTOMOTIVE COMPONENTS	Retro-Reflective Markings for Heavy and Long Vehicles, their Trailers and Semi-Trailers	Dimensional requirements (Height)	AIS:090 (Annex 7) -2005/ AIS:008 Rev2 (Cl No. 6.21)
412	MECHANICAL-AUTOMOTIVE COMPONENTS	Reverse Parking Alert System	Horizontal coverage/ Measurement Range	AIS 145 : Annexure 6 & 7
413	MECHANICAL-AUTOMOTIVE COMPONENTS	Reverse Parking Alert System	Vertical Monitoring Range	AIS 145 (Annexure 7)
414	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Defects in Central Area	IS 2553(Part 1)
415	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Dimensional Check (Length & Width) (Laminated and Toughened)	IS : 2553 (Part 1) – 1990, IS : 2553 (Part 2) – 1992, IS : 2553 (Part 1) – 2018, IS : 2553 (Part 2) – 2019, ECE R-43-01 supplement 2 to the 01 series of amendments & SANS:20043

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416	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Dimensional Check (Thickness) (Laminated and Toughened)	IS : 2553 (Part 1) – 1990, IS : 2553 (Part 2) – 1992, IS : 2553 (Part 1) – 2018, IS : 2553 (Part 2) – 2019, ECE R-43-01 supplement 2 to the 01 series of amendments & SANS:20043
417	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Edge Displacement	IS 2553(Part 1)
418	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Fabrication of Glass	IS 2553(Part 1)
419	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Flatness	IS 2553(Part 1)
420	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Fragmentation Test (Toughened)	IS : 2553 (Part 1) – 1990, IS : 2553 (Part 2) – 1992, IS : 2553 (Part 1) – 2018, IS : 2553 (Part 2) – 2019, ECE R-43-01 supplement 2 to the 01 series of amendments & SANS:20043
421	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Head Form (Laminated)	IS : 2553 (Part 1) – 1990, IS : 2553 (Part 2) – 1992, IS : 2553 (Part 1) – 2018, IS : 2553 (Part 2) – 2019, ECE R-43-01 supplement 2 to the 01 series of amendments & SANS:20043
422	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Human Impact Test (Laminated & Toughened)	IS : 2553 (Part 1) – 1990, IS : 2553 (Part 2) – 1992, IS : 2553 (Part 1) – 2018, IS : 2553 (Part 2) – 2019, ECE R-43-01 supplement 2 to the 01 series of amendments & SANS:20043
423	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Marking	IS : 2553 (Part 2)
424	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Mechanical Strength / Impact Resistance test / Fracture and adhesion test (Laminated & Toughened)	IS : 2553 (Part 1) – 1990, IS : 2553 (Part 2) – 1992, IS : 2553 (Part 1) – 2018, IS : 2553 (Part 2) – 2019, ECE R-43-01 supplement 2 to the 01 series of amendments & SANS:20043

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425	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Penetration Test (Laminated)	IS : 2553 (Part 1) – 1990, IS : 2553 (Part 2) – 1992, IS : 2553 (Part 1) – 2018, IS : 2553 (Part 2) – 2019, ECE R-43-01 supplement 2 to the 01 series of amendments & SANS:20043
426	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Resistance to Abrasion Test	IS : 2553 (Part 2) – 2019, ECE R-43-01 supplement 2 to the 01 series of amendments & SANS:20043
427	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Resistance to High Temperature / Boil Test / Bake Test	IS : 2553 (Part 1) – 1990, IS : 2553 (Part 2) – 1992, IS : 2553 (Part 1) – 2018, IS : 2553 (Part 2) – 2019, ECE R-43-01 supplement 2 to the 01 series of amendments & SANS:20043
428	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Resistance to Humidity / Humidity Test (Laminated)	IS : 2553 (Part 1) – 1990, IS : 2553 (Part 2) – 1992, IS : 2553 (Part 1) – 2018, IS : 2553 (Part 2) – 2019, ECE R-43-01 supplement 2 to the 01 series of amendments & SANS:20043
429	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Resistance to Radiation / Light Stability Test (Laminated)	IS : 2553 (Part 1) – 1990, IS : 2553 (Part 2) – 1992, IS : 2553 (Part 1) – 2018, IS : 2553 (Part 2) – 2019, ECE R-43-01 supplement 2 to the 01 series of amendments & SANS:20043
430	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Resistance to Shock (Toughened)	IS : 2553 (Part 1) – 1990, IS : 2553 (Part 2) – 1992, IS : 2553 (Part 1) – 2018, IS : 2553 (Part 2) – 2019, ECE R-43-01 supplement 2 to the 01 series of amendments & SANS:20043
431	MECHANICAL-AUTOMOTIVE COMPONENTS	Safety Glass	Squareness	IS 2553(Part 1)
432	MECHANICAL-AUTOMOTIVE COMPONENTS	Sheet Glass	Bow	IS 2835
433	MECHANICAL-AUTOMOTIVE COMPONENTS	Sheet Glass	Dimension (Length / Width)	IS 2835

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434	MECHANICAL-AUTOMOTIVE COMPONENTS	Sheet Glass	Distribution of allowable defects as per Table 2	IS 2835
435	MECHANICAL-AUTOMOTIVE COMPONENTS	Sheet Glass	Material	IS 2835
436	MECHANICAL-AUTOMOTIVE COMPONENTS	Sheet Glass	Thickness	IS 2835
437	MECHANICAL-AUTOMOTIVE COMPONENTS	Sheet Glass	Waviness	IS 2835
438	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power - 120 kW dynamometer	• MoRTH/CMVR/TAP-115/116 Issue No. 4 Amendment 5, • IS14599: 1999, • ECE R-24, Rev 2, Amend.5 • ECE R-85 (For IC Engines only), • 80/1269/EEC as amended 1999/99/EC • ECE-R-120, Rev 01, • AIS 137 Part -5 :2019 • AIS 137 Part-7:2019 • ADR30/01,
439	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power - 120 kW dynamometer	• System and Procedure for Compliance to Emission Limits for Power Generating Set Engines (up to Gross Mechanical Power 800 kW) for Genset Application run on diesel fuel • System & Procedure for Compliance to emission and noise limit for Genset run on dedicated Natural Gas (NG) or Liquefied Petroleum Gas (LPG); Petrol or Natural Gas (NG)/Liquefied Petroleum Gas (LPG); and Dual Fuel - Diesel and Natural Gas (NG) or Diesel and Liquefied Petroleum Gas (LPG). GSR 281 (E) - Dtd 07th March 2016.

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440	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power – 150 kW dynamometer	• MoRTH/CMVR/TAP-115/116 Issue No. 4 Amendment 5, • IS14599: 1999, • ECE R-24, Rev 2, Amend.5 • ECE R-85 (For IC Engines only), • 80/1269/EEC as amended 1999/99/EC • ECE-R-120, Rev 01, • AIS 137 Part -5 :2019 • AIS 137 Part-7:2019 • ADR30/01,
441	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power – 150 kW dynamometer	• System and Procedure for Compliance to Emission Limits for Power Generating Set Engines (up to Gross Mechanical Power 800 kW) for Genset Application run on diesel fuel • System & Procedure for Compliance to emission and noise limit for Genset run on dedicated Natural Gas (NG) or Liquefied Petroleum Gas (LPG); Petrol or Natural Gas (NG)/Liquefied Petroleum Gas (LPG); and Dual Fuel - Diesel and Natural Gas (NG) or Diesel and Liquefied Petroleum Gas (LPG). GSR 281 (E) - Dtd 07th March 2016.
442	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power – 250 kW dynamometer	• MoRTH/CMVR/TAP-115/116 Issue No. 4 Amendment 5, • IS14599: 1999, • ECE R-24, Rev 2, Amend.5 • ECE R-85 (For IC Engines only), • 80/1269/EEC as amended 1999/99/EC • ECE-R-120, Rev 01, • AIS 137 Part -5 :2019 • AIS 137 Part-7:2019 • ADR30/01,

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443	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power – 250 kW dynamometer	• System and Procedure for Compliance to Emission Limits for Power Generating Set Engines (up to Gross Mechanical Power 800 kW) for Genset Application run on diesel fuel • System & Procedure for Compliance to emission and noise limit for Genset run on dedicated Natural Gas (NG) or Liquefied Petroleum Gas (LPG); Petrol or Natural Gas (NG)/Liquefied Petroleum Gas (LPG); and Dual Fuel - Diesel and Natural Gas (NG) or Diesel and Liquefied Petroleum Gas (LPG). GSR 281 (E) - Dtd 07th March 2016.
444	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power - 309 kW dynamometer	• MoRTH/CMVR/TAP-115/116 Issue No. 4 Amendment 5, • IS14599: 1999, • ECE R-24, Rev 2, Amend.5 • ECE R-85 (For IC Engines only), • 80/1269/EEC as amended 1999/99/EC • ECE-R-120, Rev 01, • AIS 137 Part -5 :2019 • AIS 137 Part-7:2019 • ADR30/01,
445	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power - 309 kW dynamometer	• System and Procedure for Compliance to Emission Limits for Power Generating Set Engines (up to Gross Mechanical Power 800 kW) for Genset Application run on diesel fuel • System & Procedure for Compliance to emission and noise limit for Genset run on dedicated Natural Gas (NG) or Liquefied Petroleum Gas (LPG); Petrol or Natural Gas (NG)/Liquefied Petroleum Gas (LPG); and Dual Fuel - Diesel and Natural Gas (NG) or Diesel and Liquefied Petroleum Gas (LPG). GSR 281 (E) - Dtd 07th March 2016.

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446	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power – 350 kW dynamometer	• MoRTH/CMVR/TAP-115/116 Issue No. 4 Amendment 5, • IS14599: 1999, • ECE R-24, Rev 2, Amend.5 • ECE R-85 (For IC Engines only), • 80/1269/EEC as amended 1999/99/EC • ECE-R-120, Rev 01, • AIS 137 Part -5 :2019 • AIS 137 Part-7:2019 • ADR30/01,
447	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power – 350 kW dynamometer	• System and Procedure for Compliance to Emission Limits for Power Generating Set Engines (up to Gross Mechanical Power 800 kW) for Genset Application run on diesel fuel • System & Procedure for Compliance to emission and noise limit for Genset run on dedicated Natural Gas (NG) or Liquefied Petroleum Gas (LPG); Petrol or Natural Gas (NG)/Liquefied Petroleum Gas (LPG); and Dual Fuel - Diesel and Natural Gas (NG) or Diesel and Liquefied Petroleum Gas (LPG). GSR 281 (E) - Dtd 07th March 2016.
448	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power – 460 kW dynamometer	• MoRTH/CMVR/TAP-115/116 Issue No. 4 Amendment 5, • IS14599: 1999, • ECE R-24, Rev 2, Amend.5 • ECE R-85 (For IC Engines only), • 80/1269/EEC as amended 1999/99/EC • ECE-R-120, Rev 01, • AIS 137 Part -5 :2019 • AIS 137 Part-7:2019 • ADR30/01,

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449	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power – 460 kW dynamometer	• System and Procedure for Compliance to Emission Limits for Power Generating Set Engines (up to Gross Mechanical Power 800 kW) for Genset Application run on diesel fuel • System & Procedure for Compliance to emission and noise limit for Genset run on dedicated Natural Gas (NG) or Liquefied Petroleum Gas (LPG); Petrol or Natural Gas (NG)/Liquefied Petroleum Gas (LPG); and Dual Fuel - Diesel and Natural Gas (NG) or Diesel and Liquefied Petroleum Gas (LPG). GSR 281 (E) - Dtd 07th March 2016.
450	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power – 580 kW dynamometer	• MoRTH/CMVR/TAP-115/116 Issue No. 4 Amendment 5, • IS14599: 1999, • ECE R-24, Rev 2, Amend.5 • ECE R-85 (For IC Engines only), • 80/1269/EEC as amended 1999/99/EC • ECE-R-120, Rev 01, • AIS 137 Part -5 :2019 • AIS 137 Part-7:2019 • ADR30/01,
451	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power – 580 kW dynamometer	• System and Procedure for Compliance to Emission Limits for Power Generating Set Engines (up to Gross Mechanical Power 800 kW) for Genset Application run on diesel fuel • System & Procedure for Compliance to emission and noise limit for Genset run on dedicated Natural Gas (NG) or Liquefied Petroleum Gas (LPG); Petrol or Natural Gas (NG)/Liquefied Petroleum Gas (LPG); and Dual Fuel - Diesel and Natural Gas (NG) or Diesel and Liquefied Petroleum Gas (LPG). GSR 281 (E) - Dtd 07th March 2016.

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452	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power - 80 kW dynamometer	• MoRTH/CMVR/TAP-115/116 Issue No. 4 Amendment 5, • IS14599: 1999, • ECE R-24, Rev 2, Amend.5 • ECE R-85 (For IC Engines only), • 80/1269/EEC as amended 1999/99/EC • ECE-R-120, Rev 01, • AIS 137 Part -5 :2019 • AIS 137 Part-7:2019 • ADR30/01, : 2019
453	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of Engine Power - 80 kW dynamometer	• System and Procedure for Compliance to Emission Limits for Power Generating Set Engines (up to Gross Mechanical Power 800 kW) for Genset Application run on diesel fuel • System & Procedure for Compliance to emission and noise limit for Genset run on dedicated Natural Gas (NG) or Liquefied Petroleum Gas (LPG); Petrol or Natural Gas (NG)/Liquefied Petroleum Gas (LPG); and Dual Fuel - Diesel and Natural Gas (NG) or Diesel and Liquefied Petroleum Gas (LPG). GSR 281 (E) - Dtd 07th March 2016.: 2016
454	MECHANICAL-AUTOMOTIVE COMPONENTS	Test on Engine	Measurement of portable generator Power	• System & Procedure for Compliance to emission limit for petrol & kerosene run generator sets up to 19 kW as notified via GSR 535 (E) dated 7th Aug 2013 • SAE J1088 REV FEB 93(For Portable Generator sets)
455	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Air Leak Test	IS 16192 Part 1 And 1:2014
456	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Corner Fatigue Test	IS 16192 Part 2, And 1
457	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Corner Fatigue Test	IS 9436 Amd 1

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458	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Corner Fatigue Test	IS 9436-1980 IS 9438
459	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Corner Fatigue Test	IS 9438
460	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Corner Fatigue Test	IS16192 Part 1, Amd 1
461	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Radial Fatigue Test	IS 16192 Part 1 And 1
462	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Radial Fatigue Test	IS 16192 Part 2, Amd 1
463	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Radial Fatigue Test	IS 9436, Amd 1
464	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Radial Fatigue test	IS 9436-1980 IS 9438
465	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Radial Fatigue Test	IS 9438, And 1
466	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Radial Impact Test	IS 16192 Part 1 Amd 1
467	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Strength Test	IS 16192 Part 3, Amd 1
468	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Torsion Moment Test	IS 16192 Part 1, Amd 1
469	MECHANICAL-AUTOMOTIVE COMPONENTS	Wheel Rim	Torsion moment test of 2W/3W wheel rim	SDL/TP/34
470	MECHANICAL-AUTOMOTIVE COMPONENTS	Windscreen Washer Tank System	Test No. 1 as per Clause Number 5.2.1	IS15804
471	MECHANICAL-AUTOMOTIVE COMPONENTS	Windscreen Washer Tank System	Test No. 2 as per Clause Number 5.2.2	IS15804

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472	MECHANICAL-AUTOMOTIVE COMPONENTS	Windscreen Washer Tank System	Test No. 3 (Low Temperature Exposure Test) as per Clause Number 5.2.3	IS15804
473	MECHANICAL-AUTOMOTIVE COMPONENTS	Windscreen Washer Tank System	Test No. 4 (High-Temperature Exposure Test) as per Clause Number 5.2.4	IS15804
474	MECHANICAL-AUTOMOTIVE COMPONENTS	Windscreen Wiping	Wind Screen Wiping System Test - Angle of the tangent from the eye ellipse	AIS 045- 2004 IS 15802:2008 IS 15804
475	MECHANICAL-AUTOMOTIVE COMPONENTS	Windscreen Wiping	Wind Screen Wiping System Test - Temperature	AIS 045- 2004 IS 15802:2008 IS 15804
476	MECHANICAL-AUTOMOTIVE COMPONENTS	Windscreen Wiping	Wind Screen Wiping System Test -Linear dimension	AIS 045- 2004 IS 15802:2008 IS 15804
477	MECHANICAL-AUTOMOTIVE COMPONENTS	Windscreen-Wiper Blade	Ageing Test	IS15804-2008, IS15802
478	MECHANICAL-AUTOMOTIVE COMPONENTS	Windscreen-Wiper Blade	Chemical Resistance	IS15804-2008, IS15802
479	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and alloys	Axial Fatigue number of cycles for test pass or fail Load Fatigue life estimation (S-N Curve)	ASTME 466-15
480	MECHANICAL- NOISE & VIBRATION	Automotive porous material such as foam, fibers, dash panel, carpet, seats, headliners, jute etc	Normal incidence sound absorption coefficient measurement using impedance tube	ISO 10534-2-1998 , ASTM E-1050: 2019
481	MECHANICAL- NOISE & VIBRATION	Automotive porous materials such as foams, fibers, boards scrims, blankets	Flow resistivity	ISO 9053-2018, ASTM C 522-2003(16)
482	MECHANICAL- NOISE & VIBRATION	Automotive sound package materials such as floor carpet, dash panel, headliner, glass panel, sheet meal etc. Non-Automotive building acoustic materials such as drywall partitions, glass partitions, roofing systems, doors, windows etc	Sound transmission loss measurement using reverberation chambers	ISO 10140-2-2010, ASTM E90-2009(16)
483	MECHANICAL- NOISE & VIBRATION	Automotive sound package materials such as floor carpet, dash panel, headliner, hood insulator etc. Non-Automotive building acoustic materials such as PU foam, Rockwool Glass wool, Curtains, ceiling tiles, etc	Random incidence sound absorption coefficient measurement using Reverberation chamber	ISO 354-2003, ASTM C 423-2017

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484	MECHANICAL- NOISE & VIBRATION	Noise Emitting machinery or equipment, component or sub-assembly like home and industrial appliances, air conditioners, motors etc.	sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for small movable sources in reverberant fields	ISO 3743 - (Part 1) : 2010, ISO 3743 - (Part 2)
485	MECHANICAL- NOISE & VIBRATION	Noise Emitting machinery or equipment, component or sub-assembly, cooler, Air conditioning units, washing machine, Siren, back up Alarms, motors, horn, home and industrial appliances	Determination of sound power levels and sound energy levels of noise sources in hemi anechoic chamber	ISO 3744:2010, ISO 3745:2012, IS 1391 (Part 2) : 2018 - Clause 6.7, 8.1.1, 9.10, 11.5 and 14, Amendment 1 - Clause 14.3, Amendment 4 - Clause 11.5, IS 1884_1993(19), SAE J994 -09 : 2012 - Clause 1 to 5.1, 5.3 to 6.6 AIS 125 (Part 1) -Annexure 1 Clause V
486	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Additional Requirements for Bus Construction	Evaluation of Bus Natural Frequency - Virtual Testing	Cl. 2.3.1.2 of AIS153/2018
487	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Agricultural tractors	REQUIREMENT OF ATTENDANT'S SEAT OF AGRICULTURE TRACTOR	AIS 111
488	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Agricultural tractors	Requirements of Load Platforms of Agricultural Tractors	AIS106
489	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Approval of Front Underrun Protective Devices (FUPD)	FUPD Loading - Virtual Testing	Cl. 1. 3 of Annex 5 of ECER93-00: 1994 and Cl. 1.3 of Annexure I of AIS069
490	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Off road vehicle of M & N type (G category)	Method of Measurement of Approach, Departure and Ramp Angles of Automotive Vehicles	IS: 12218
491	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicle	Arrangement of Foot Control for M1 category vehicles	ECE R35
492	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicle	Coast down test- Measurement of Vehicle Road Load Resistance	ECE R83 (Revision 05, Annexure 4a, Appendix 7, and its amendment no. 12)
493	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicle	Coast down test- Measurement of Vehicle Road Load Resistance	SAE J 1263
494	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle	Exhaust system for spark arresting function	TP No.77 Version No.01 May23 (based on "Petroleum Rules, 2002, Work Manual of PESO, Chapter 10)

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495	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle	External Projection on Motor Vehicles	ECE R 26
496	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle	External Projection on Motor Vehicles	ECE R61
497	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicle	Measurement of Surface Temperature at Outer Surface of Protective shield of Exhaust system	TP No.78 Version No.01 May23 ("DIRECTION OF PESO. (REF. TL/(MISC)2017) DT: 19.09.2017 & 13.12.2017)
498	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle	Temporary-Use Spare Wheel / Tyres and RFT	ECE R64
499	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle	Tyre Pressure Monitoring Systems	ECE R 141
500	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle -Construction Equipment Vehicles or Earth-moving Vehicles / Machinery	Product Identification Numbering System	AIS 136 : 2015, AIS 117
501	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 2W, 3W, 4W & their derivatives	Constant Speed Fuel Consumption Evaluation	IS 11921
502	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 2W, 3W, 4W, Construction Equipment Vehicles (CEV) & their derivatives	Speedo meter Calibration - 2 & 3 Wheelers and their derivate	2000/7/EEC, IS: 11827
503	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 2W, 3W, 4W, Construction Equipment Vehicles (CEV) & their derivatives	Speedo meter Calibration - 4 Wheelers and their derivatives & Construction Equipment Vehicles (CEV)	97/39/EEC or ECE R39, IS: 11827
504	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of Fire safety in Mobile canteen (Physical Verification)	AIS 163 (Part 1 & 2)
505	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of Battery & alternator in Cashvan / Mobile canteen(Physical Verification)	AIS 163 (Part 1 & 2)
506	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of Storage Facilities in Mobile canteen.(Physical Verification)	AIS 163 (Part 1 & 2)

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507	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of Security Feature as Live GPS Tracking of Cash van (Physical Verification)	AIS 163 (Part 1 & 2)
508	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of Electric supply in Mobile canteen.(Physical Verification)	AIS 163 (Part 1 & 2)
509	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of LPG arrangements in Mobile canteen.(Physical Verification)	AIS 163 (Part 1 & 2)
510	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of Fire Extinguishers in Mobile canteen (Physical Verification)	AIS 163 (Part 1 & 2)
511	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of special purpose vehicle Identification Plate in Cashvan / Mobile canteen(Physical Verification)	AIS 163 (Part 1 & 2)
512	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of specific requirements for the make of Cashvan(Physical Verification)	AIS 163 (Part 1 & 2)
513	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of Water storage facilities in Mobile canteen.(Physical Verification)	AIS 163 (Part 1 & 2)
514	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of Partition wall in Cashvan / Mobile canteen(Physical Verification)	AIS 163 (Part 1 & 2)
515	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of Cooking facilities in Mobile canteen.(Physical Verification)	AIS 163 (Part 1 & 2)
516	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of Induction heating in Mobile canteen.(Physical Verification)	AIS 163 (Part 1 & 2)
517	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of Security Features (CCTV, Data Storage, Panic Switches, Fire extinguishers) in Cashvan(Physical Verification)	AIS 163 (Part 1 & 2)

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518	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of specific requirements on Layout of Cashvan (Cash & Passenger Compartment) (Physical Verification)	AIS 163 (Part 1 & 2)
519	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of Temperature control in Mobile canteen.(Physical Verification)	AIS 163 (Part 1 & 2)
520	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	General requirements of electric wiring in Cashvan / Mobile canteen (Physical Verification)	AIS 163 (Part 1 & 2)
521	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle 4W & their derivatives	Measurement of cooling performance of automotive vehicle.	IS : 14557
522	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle manufacturer of M3 Category	Bus Body Builder Plant Accreditation system	S.O. 425 (E) Dated S.O. 2356 (E) Dated
523	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle of 2W, 3W, 4W E-rickshaws, Automotive trailer, Agricultural tractor and C category vehicles	CMVR Checks	CMVR Rules (Rule 93 to 125)
524	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle of 4W & their derivatives	Acceleration measurement test	IS:11851
525	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle of 4W & their derivatives category	Test for Contrability and Stability	TRIAS 05-002-01
526	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle of L Category	Brake Test for categories L1, L2, L3, L4 and L5	ECE R 78
527	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle of M category	Type approval requirements applicable to motor caravans of category M and Sleeper Coach Assessment	AIS 124: 2014; AIS 119 (Rev-1)
528	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle of M1 and L1,L2 CATEGORY	TEST PROCEDURE FOR APPROVAL OF RETRO-FITMENT / ADAPTATION KIT FOR 2W, 4W VEHICLE FOR PHYSICALLY CHALLENGED PERSON	RT-11012/12/2001-MVL Dated
529	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle of M1 and N1 Category	Uniform Provisions Concerning the Approval of Vehicles of Categories M1, and N1 with regard to Brake Assist System	AIS 152

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530	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle testing 2W, 3W, 4W & their derivatives	Constant Speed Fuel Consumption Evaluation - 2 Wheelers and their derivatives	IS:10881
531	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle testing 2W, 3W, 4W & their derivatives	Constant Speed Fuel Consumption Evaluation - 3 & 4 Wheelers and their derivate with CNG/LPG/Diesel/Petrol/other fuel vehicle	IS:11921 : 1993,
532	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle testing 2W, 3W, 4W & their derivatives, Automotive Trailer, Agricultural Tractor and Trailer combination	Brake Performance Evaluation - 4 Wheelers and their derivatives, Automotive Trailer	71/320/EEC or ECE R13 IS:11852: 2001, 2003, 2013, 2019, AIS 150-2018 ADR 31/01,31/02,31/03, 35/00,35/01,35/02, 35/03,35/04, AIS 151:2018, AIS 133
533	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle testing 2W, 3W, 4W & their derivatives, Automotive Trailer,Construction Equipment Vehicles (CEV), Agricultural Tractor and Trailer combination	Brake Performance Evaluation - 2 & 3 Wheelers and their derivate	93/14/EEC IS:14664:1999, 2010 ADR 33/00, GB20073:
534	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle testing 2W, 3W, 4W & their derivatives, Automotive Trailer,Construction Equipment Vehicles (CEV), Agricultural Tractor and Trailer combination	Brake Performance Evaluation - Braking System and Performance Requirements for the Combination of Agricultural Tractor and Trailer combination	AIS043: 2005, IS 12061
535	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle testing 2W, 3W, 4W, battery operated vehicle & their derivatives	Gradeability Evaluation	AIS003-1999, IS:13988-2002, IS:13988-2014 / AIS - 049:2003, AIS-049 (Rev-1)
536	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle testing For 4W, Agricultural Machinery (Agricultural Tractor, Power Tiller & Combine Harvesters) & Construction Equipment Vehicles (CEV)	Turning Circle Diameter evaluation	IS:12222:2011, 1987, IS 11859 : 2004 , IS/ISO: 5500:2004 Part1 & Part2, TRIAS 06-001-01, IS/ISO: 7457:
537	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle testing 2W, 3W, 4W , Agricultural Machinery (Agricultural Tractor, Power triller & Combine Harvesters) Automotive Trailer, Construction Equipment Vehicles (CEV) & their derivatives	Verification of weights of vehicles	IS:11825
538	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle testing 2W, 3W & their derivatives	LPG safety Check	AIS-027
539	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle testing 4W & their derivatives	Brake Performance Evaluation- 4 Wheelers and their derivatives	IS : 15986
540	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle testing 4W & their derivatives	LPG safety Check	AIS-026

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541	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle testing 4W & their derivatives	Range Test - 4 Wheeler and their derivatives	AIS - 55
542	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle with M & N category	Requirements for location and identification of hand controls, tell-tales and indicators (Physical Verification)	ECE R 121
543	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicle- 3W (L2,L4,L5 category)	Noise test for category L2, L4 and L5	ECE R09
544	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle-3W, L5N & L5M	Safety measures for Occupants of Three Wheeled Vehicles	AIS 134
545	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicles	Approval of passenger cars with regard to Brake Assist Systems (BAS)	ECE R139
546	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicles	Electronic Stability Control (ESC) Systems	ECE R140
547	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicles	METHOD OF CONDUCTING WATER PROOFING TEST	IS 11865
548	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicles	METHOD OF RECORDING DUST INGRESS IN AUTOMOTIVE VEHICLES	IS 11739
549	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles 2W, 3W, 4W, Agricultural Tractor & their derivatives	Permissible Sound Level Test - 4 Wheelers and their derivatives	70/157/EEC, ECE R51, ADR 83/00; IS: 3028
550	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles - Seats, their Anchorages and Head Restraints for Passenger Vehicles of Categories M2, M3 and Goods Vehicles of Category N - Specifications	Evaluation of Seat Anchorages - Virtual Testing	Cl. 7.3 of AIS023/2005 incl. Amd. 1 - 5
551	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles - 2W	Requirements of Footrests for Two-wheeled Motor Vehicles	AIS 148
552	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles - Lateral Protection : Side Guards (LPD/SUPD) - Technical Requirements	SUPD Loading - Virtual Testing	Cl. 5.8.1 of IS14682/2004 (Reaffirmed): 2009 and Cl. 12.10 and Cl. 14.4 of ECER73-02
553	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles - Rear Underrun Protective Device (RUPD) - General Requirements	RUPD Sequential Loading - Virtual Testing	Cl. 3.4.6 of IS14812/2005 (Reaffirmed): 2009 and Cl. 1.3 of Annex 5 of ECER58-04

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554	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles – 2 W	External Projection requirements for Two Wheeled Motor Vehicles	AIS 147
555	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles 2W, 3W, 4W & their derivatives except for two and three wheeled vehicles below 500 cc.	External projection – Performance requirements.	IS:13942
556	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles 2W, 3W, 4W, Agricultural Machinery (Agricultural Tractor, Power Tiller & Combine Harvester) & their derivatives, Construction Equipment Vehicle	Permissible Sound Level Test - Agricultural Tractor, CEV By stander Noise, Stationary Noise and OEL Noise level	AIS 115 (Part 2), AIS 115 (Part 1) 2009, IS/ISO 6393:2008, IS/ISO 6394:2008, IS:12180-2000, IS/ISO 6395: 2008 & IS/ISO 6396:
557	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles 2W, 3W, 4W, Agricultural Tractor & their derivatives	Permissible Sound Level Test - 2 Wheelers and their derivate	IS: 3028-1998,2018 ECE R41, ADR 83/00, GB16169 2005, GB 4569
558	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles 2W, 3W, 4W, Agricultural Tractor & their derivatives	Permissible Sound Level Test - 3 Wheelers and their derivate	ADR 83/00; IS: 3028-1998,
559	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles 2W, 3W, 4W, Construction Equipment Vehicles (CEV) & Agricultural Machinery (Agricultural Tractor, Power Tiller & Combine Harvesters) their derivatives	Max. Speed Test - Agricultural Tractor	AIS 116 : 2009, IS 11877
560	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles 2W, 3W, 4W, Construction Equipment Vehicles (CEV) & Agricultural Tractor their derivatives	Max. Speed Test - 2 W, 3W and their derivatives	95/1/EEC, IS:10278:2002, 2009, 2018; ISO7117
561	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles 4W & Construction equipment vehicles (CEV)	Coast Down Test Exhaust Back Pressure & Air Intake Depression Test	IS 14785:2000, TAP-115/116, TRIAS 31 J042(4) 02 – Attachment 42 Sheet 04 , AIS137
562	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles 4W & their derivatives	Hood Latch Tests	IS:14226
563	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles 4W & their derivatives	Internal Sound Level	AIS:020, IS:12832
564	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles 4W - M1 Category & their derivatives	External projection-Performance Requirements	AIS-120
565	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles of category “L1 & L2”	Identification of Controls, Tell-Tales, Indicators, Control Location & Operations Requirements	AIS 126

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566	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles of category L, M, N, A and C	Identification of Controls Tell-Tales and Indicators	AIS 071 (Part1 & Part2): 2009, AIS 071(Part 01) (Rev 01), E/ECE/324 R60, IS/ISO 6405 - part 1&2:
567	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles of category M1 and L7-M	The Arrangement of Foot Controls of Vehicles	AIS:035
568	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicles of M & N category	REQUIREMENT OF TEMPORARY CABIN FOR DRIVE-AWAY-CHASSIS	AIS070
569	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles of vehicle category M1 & N1	Temporary-Use Spare Wheel / Tyres and Run Flat Tyres	AIS-110:2009, AIS 154
570	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicles other than agricultural vehicles	Measuring the noise produced by a stationary road vehicles other than agricultural vehicles	ISO : 5130 - 1982 or IS:10399
571	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicles testing 2W, 3W, 4W & their derivatives	CNG Safety Check, Safety and procedural requirements for Type Approval of Compressed Gaseous Hydrogen fuel cell Vehicles	AIS-028 : 2011, AIS 024, AIS 157
572	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles testing for 2W, 3W, 4W, Construction Equipment Vehicles (CEV) & Agricultural Machinery (Agricultural Tractor, Power Tiller & Combine Harvesters) their derivatives	Max. Speed Test - 4 Wheelers and their derivatives	ECE/68, IS 11877
573	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicles- 4W & their derivatives	Measurement of Ground Clearance	TRIAS 02-001-01 (Clause 3-13); IS:9435
574	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicles- Fully Built Bus, Fully Built School Bus & Sleeper Coaches	Physical / Dimensional and Other verification of Buses (Bus Code)	AIS-052 (Rev.1)
575	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicles- Fully Built Bus, Fully Built School Bus & Sleeper Coaches	Physical / Dimensional and Other verification of School Buses	AIS-063
576	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicles- Fully Built Bus, Fully Built School Bus & Sleeper Coaches	Specific Constructional Requirements for Sleeper Coaches	AIS-119 (Rev 1)
577	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles- M3 category	ADDITIONAL REQUIREMENTS FOR BUS CONSTRUCTION	AIS153

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578	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive Vehicles- passenger cars	Wheel Guards For Passenger Cars - Performance Requirements	IS 13943 Rev01
579	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicles-Category M & L Vehicles	Constructional and Functional Requirements for Road Ambulances	AIS-125 (Part 1)
580	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicles-Category N2 & N3 Vehicles	Physical / Dimensional and Other verification for Construction and Approval of Truck Cabs & Truck Bodies and Trailer Code assessment, Modulat Hydraulic Trailer	AIS-093 (Rev.1) 2019, AIS 113: 2013 and AIS 158
581	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicles-Category N2 & N3 Vehicles	Physical / Dimensional and Other verification of Truck Cabin Ventilation System for Category N2 & N3 Vehicles	AIS 056 Rev. 01
582	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Bogie and body mounted component (Railway/Rolling stock)	Functional random vibration test	IEC 61373
583	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Bogie and body mounted component (Railway/Rolling stock)	Shock test	IEC 61373
584	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Bogie and body mounted component (Railway/Rolling stock)	Simulated long lift test at increased random vibration level	IEC 61373
585	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Bogie and body mounted components (Railway/Rolling stock)	Resonance Search on fixture	IEC 61373
586	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Cabins & their attachments of Commercial Vehicles of Category N	Frontal Pillar Impact Test (Test B) using Pendulum Impact Test Rig	Cl.5.1.3 of ECE R29.03
587	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Cabins & their attachments of Commercial Vehicles of N Category	Frontal Impact Test (Test A) using Pendulum Impact Test Rig	Cl. 5.2 of AIS029/2004
588	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Cabins & their attachments of Commercial Vehicles of N Category	Frontal Impact Test (Test A) using Pendulum Impact Test Rig	Cl.5.1.2 of ECE R29.03
589	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Cabins & their attachments of Commercial Vehicles of N Category	Frontal Impact Test (Test A) using Pendulum Impact Test Rig	Cl.5.2 of ECE R29.02 Supplement 1 to the series 02 of amendments

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590	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Code of Practice for Bus Body Design and Approval	Stability Angle Evaluation - Virtual Testing	Cl. 7.4.5 of ECER107-06: 2014, Cl. 5.1.2.1 of AIS119/2016 incl. Amd. 1 - 3: 2019 and Cl. 6.2.2.1.3 of AIS052/2017 incl. Amd. 1 - 11
591	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Code of Practice for Construction and Approval of Truck Cabs & Truck Bodies	Load Body Headboard, Tailboard and Sidewall Loading - Virtual Testing	Cl. 3.3.3.8 of AIS093/2015 incl. Amd. 1 - 4
592	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Code of Practice for Use of CNG Fuel in Internal Combustion Engined Vehicles	Evaluation of Roof Strength for mounting CNG Cylinders - Virtual Testing	Cl. 2.3.2(c) of AIS028V3/2002 incl. Amd. 1 - 2
593	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment Vehicle	Access system for Steps, Primary acess, alternative exit path	IS/ISO 2867
594	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment Vehicle	Guards- Barrier Guards, Fenders, Fan Guards	IS/ISO 3457
595	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment Vehicle	Lift Arm Support device	IS/ISO 10533
596	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment Vehicle	Machine Mounted Audible Alarm	IS/ISO 9533
597	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment Vehicle	Machine safety Labels	IS/ISO 9244
598	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment Vehicle	Minimum Access Dimensions	IS 10689:1993/ ISO 2860
599	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment Vehicle	Operator controls	IS/ISO 10968: 2004, IS/ISO 3411:2007, ISO 6682:1986, IS 11252
600	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment Vehicle	Operator Station and Maintenance	IS/ISO 12508
601	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment Vehicle	Performance requirements and test procedures for brake systems	ISO 3450
602	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment vehicle	Steering Effort Requirements	AIS 144

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603	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment Vehicle	Steering Effort requirements	IS/ISO 5010
604	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment vehicle	Steering Requirements	IS 16480
605	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment Vehicle	Visual Display Requirements	IS/ISO 6011:2003, IS/ISO 5006:2017, ISO14401-1:2009, ISO 14401-2
606	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment Vehicles	Performance Requirements and Test Procedures of Braking Systems	IS 16479
607	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Construction Equipment Vehicles (CEV)	Brake Performance Evaluation - Construction Equipment Vehicles (CEV)	AIS 143 : 2018, IS/ISO 10265
608	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Driver / Passenger / Seat Airbag Modules	Static Airbag Deployment Test after temperature conditioning (Exclusion : Sun Load Simulation and Pressure Measurement)	SAE J1630 – JAN 2011
609	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Electric Power Train Vehicles (Vehicle Category L, M and N)	Construction and Functional Safety Requirements	AIS 038 (Rev.1), AIS 038 (Rev.2), AIS 102 Part 1, AIS 102 Part 2, AIS 123 part 1, AIS 123 Part 2, AIS 123 Part 3, AIS156, ECE R100, ECE R136
610	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Electric Power Train Vehicles (Vehicle Category L, M and N)	Measurement of Electrical Energy Consumption	AIS 039 (Rev. 1), AIS 123 part 1, AIS 123 Part 2, AIS 123 Part 3, ECE R101
611	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Electric Power Train Vehicles (Vehicle Category L, M and N)	Measurement of Net Power and The Maximum 30 Minute Power	AIS 123 part 1, AIS 123 Part 2, AIS 123 Part 3, ECE R85, AIS 041(Rev1)
612	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Electric Power Train Vehicles (Vehicle Category L, M and N)	Method of Measuring the Range	AIS 102 Part 1, AIS 102 Part 2, AIS 123 Part 1, AIS 123 Part 2, AIS 123 Part 3, ECE R101, AIS-040(Rev.1)
613	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Landing leg	Landing leg Lifting Effort measurement	IS 10752
614	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Landing leg	Static test	IS 10752

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615	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	M & N Category Vehicles	Additional Safety features 1) Information for Speed alert 2) Information for Safety belt reminder 3) Information for manual over-ride 4) Information for Driver airbag 5) Information for Reverse Parking Alert System	AIS-145
616	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pneumatic tyres of Classes C1, C2 and C3	Evaluation of Tyres with Regard to Adhesion on Wet Surfaces	AIS 142 : 2019 ANNEX – C, UN ECE R 117,Rev 4 Annex 5
617	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pneumatic tyres of Classess C1, C2 and C3	Evaluation of Tyres with Regard to Rolling Sound Emissions	AIS 142 : 2019, ANNEX – A, UN ECE R 117,Rev 4 Annex 3
618	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Belt	Retractor Tilt Lock Test	4.2.5.3.a.3,4.2.5.3.a.4 and 5.3.2.5 of IS : 15140:2003, Cl. No. 6.2.5.3.1.3 and 6.2.5.3.1.4 of ECE R 16-07 - Cl. 6 of ECE 16-07 – 07 series of amendments, Cl. 6 of ADR 4/05, Cl. No. 6.2.5.3.1.3 and 6.2.5.3.1.4 of SANS 20016:2009, Cl. No. 7.2.3.2 of AIS072
619	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Belt	Buckle Release Force Measurement Test	Cl. No. 4.4.2.10.c) and 5.5.3 of IS : 15140:2003, Cl. No. 6.2.2.5 and 7.8 of ECE R 16-07 - Cl. 6 of ECE 16-07 – 07 series of amendments, Cl. 6 of ADR 4/05 , Cl. No. 6.2.2.5 and 7.8 of SANS 20016
620	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Belt	Buckle Release Force Measurement Test	Cl. No. 4.4.2.10.c) and 5.5.3 of IS : 15140:2003, Cl. No. 6.2.2.5 and 7.8 of ECE R 16-07 - Cl. 6 of ECE 16-07 – 07 series of amendments, Cl. 6 of ADR 4/05, Cl. No. 6.2.2.5 and 7.8 of SANS 20016

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621	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Belt	G Lock Test	Cl. No. 4.2.5.3 and 5.3.2 of IS : 15140:2003, Cl. No. 7.6.1,7.6.2,6.2.5.3.1.1,6.2.5.3.1.2 of ECE R 16-07 - Cl. 6 of ECE 16-07 –07 series of amendments, Cl. 6 of ADR 4/05, Cl. No. 7.6.1,7.6.2,6.2.5.3.1.1,6.2.5.3.1.2 of SANS 20016:2009
622	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Belt	Manual Belt Adjuster Force Measurement Test	Cl. No. 4.2.3.3 and 5.2.6 of IS : 15140:2003 , Cl. No. 6.2.3.4 and 7.5.6 of ECE R 16-07 - Cl. 6 of ECE 16-07 – 07 series of amendments, Cl. 6 of ADR 4/05, Cl. No. 6.2.3.4 and 7.5.6 of SANS 20016
623	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Belt	Retractor Retraction Force Measurement Test	Cl. No. 4.2.5.2, 4.2.5.3 and 5.3.4 of IS : 15140:2003, Cl. No. 7.6.4 of ECE R 16-07 Cl. 6 of ECE 16-07 – 07 series of amendments, Cl. 6 of ADR 4/05, Cl. No. 7.6.4 of SANS 20016
624	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Belt Assembly	Dynamic test using Bungee Sled Facility after all the specified Pre-conditioning such as Retractor durability, Buckle Durability, Dust Test, Salt Spray test	Cl. 4.4.2, 5.5.2 of IS-15140:2003 Cl. 6 of ECE 16-07 – 07 series of amendments Cl. 6 of ADR 4/05 Cl. 6 of SANS 20016:2009
625	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Belt Assembly : Webbing or Straps / Rigid Parts	Elongation	Cl. No. 4.3.5, 5.4.3 of IS : 15140:2003
626	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Belt Assembly : Webbing or Straps / Rigid Parts	Energy Absorptivity	Cl. No. 4.3.6, 5.4.4 of IS : 15140:2003
627	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Belt Assembly : Webbing or Straps / Rigid Parts	Tensile strength after various conditioning such as Room / Cold / Heat / Light / Water Abrasion	Cl. No 4.2, 4.3, 5.2, 5.4 of IS : 15140:2003, Cl. No. 6.2, 6.3, 7.4, 7.5 of ECE 16-07 - Cl. 6 of ECE 16-07 – 07 series of amendments, Cl. 6 of ADR 4/05, Cl. No. 6.2, 6.3, 7.4, 7.5 of SANS 20016

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628	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Belt Assembly : Webbing or Straps / Rigid Parts	Width under Load	Cl. No 4.3.1.2, 5.4.1 of IS : 15140:2003, Cl. No. 6.3.1.2, 7.4.3 of ECE 16-07 - Cl. 6 of ECE 16-07 - Cl. 6 of ECE 16-07 – 07 series of amendments, Cl. 6 of ADR 4/05, Cl. No. 6.3.1.2, 7.4.3 of SANS 20016
629	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Safety Belt Assembly – 2 Point Static / 3 Point Static	Micro Slip test	Cl. No. 4.2.3.1 and 5.2.8 of IS : 15140:2003, Cl.No.:7.3 of ECE 16-07 - Cl. 6 of ECE 16-07 – 07 series of amendments, Cl. 6 of ADR 4/05 , Cl. No. 7.3 of SANS 20016
630	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat	Dimensional measurement	IS 11112
631	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat	Dimensional measurement	IS 11112
632	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat	Seat belt anchorages	IS/ISO: 6683
633	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat	Seat belt anchorages	IS/ISO: 6683
634	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat	Seat belt anchorages	IS/ISO: 6683
635	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seat	Seat Index Point	IS 11113
636	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seats	Luggage Retention test Using Bungee Sled Facility	Cl.5.15 of ECE 17:08 - Supplement 4 to the 08 series of amendments, Cl. No. 5.9 of IS15546:2005, Cl.5.15 of Appendix A of ADR 3/04 , Cl.5.15 SANS 20017
637	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seats and their Anchorages	Dynamic test (Resistance to Inertia Effects) Using Bungee Sled Facility	Cl. 5.1, 5.3 of
638	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Specific Constructional Requirements for Sleeper Coaches	Sleeper Berth Loading - Virtual Testing	Cl. 4.4.4.2.7 of AIS119/2016 incl. Amd. 1 - 3

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639	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Steering Equipment for Automotive vehicle testing for 4W, Agricultural Machinery (Agricultural tractors, Power triller, Combine Harvester) Automotive trailer & Construction Equipment Vehicles (CEV)	Torque Angle Steering Equipment for 4 wheeler & Agricultural tractors, Automotive trailer	70/311/EEC or ECE R79, IS:11948-1986, 1999, 2010 AIS: 042:2017, AIS:113 : 2016, AIS 114
640	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Strength of Superstructure of Large Passenger Vehicles	Full Vehicle Rollover	Cl. 5.1 to Cl. 5.3 of ECE R66.01, Cl. 7.1.1, Cl. 8 of AIS031/2004 incl. Amd. 1
641	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Strength of Superstructure of Large Passenger Vehicles	Full Vehicle Rollover - Virtual Testing	Cl. 5.4.4 of ECER66-02: 2010, Cl. 7.1.4 of AIS031/2004 incl. Amd. 1 - 4: 2017 and Cl. 5.1.1.1 of AIS119/2016 incl. Amd. 1 - 3
642	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Survival Space for the Protection of the Occupants of the Cab of a Commercial Vehicle	Cab Roof & Cab Rear Wall Loading - Virtual Testing	Cl. 5.1.6 of ECER29-04 and Cl. 5.5 of AIS029/2004 incl. Amd. 1 - 6
643	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Traction Motor	Water Immerse Test	AIS 123 Part 1, AIS 123 Part 2, AIS 123 Part 3
644	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Vehicle Impact Test	Front & Rear Bumpers of vehicle (Vehicle testing)	Cl. No. 2.3, 2.6, 2.7, 2.8 2.7.5 & 2.8.4 of UN ECE R42 Annex 3
645	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Vehicle Impact Test	Front & Rear Bumpers of vehicle (Vehicle testing)	Cl 4, 6 of GSO 41/2007
646	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Vehicle Impact Test	Front & Rear Bumpers of vehicle (Vehicle testing)	Cl 581.6 (b), 581.7 of FMVSS TP 581
647	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Vehicle Impact Test	Front & Rear Bumpers of vehicle (Vehicle testing)	Pendulum Method : Cl. No. 4.2 of IS 15901
648	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Vehicle Installation testing: Horn Installation	Horn Installation Testing,Sound Level,Voltmeter	IS 15796:2008 ECE R28; amendment 3 supplement 3 Rev2
649	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Vehicle Level	Child Restraint System	Annex 23 of AIS 072 Amd.03
650	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Vehicle Level	Dimensional verification FUPD	AIS 069 Cl 6 Part I Cl 8 Part II, Cl 10 Part III
651	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Vehicle level	Dimensional verification FUPD	UN ECE R93 Cl 6 Part I, Cl 8 Part II, Cl 10 Part III

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652	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Vehicle Level	Dimensional verification RUPD	IS 14812 Cl 3.1 to 3.3
653	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Vehicle Level	Dimensional verification RUPD	UN ECE R58 Cl 7 of Part I, Cl 16 of Part II and Cl 25 of Part III
654	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Vehicle level	Interior fitting test for other than M1 category vehicles as per AIS 047	Verification as per Cl 4, 5, Annex A, Annex B of AIS 047
655	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Vehicle/Component Impact Test	Side under-run protection device	Dimensional verification as per Cl 5.1 to 5.7 as per IS 14682, strength test as per Cl 5.8 of IS 14682
656	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Vehicle/Component Impact Test	Side under-run protection device	Dimensional verification as per Part I Cl 12, Part II Cl 14, Part III Cl 15 of UN ECE R73 and strength test as per Part I Cl 12, Part II Cl 14, Part III Cl 15 of UN ECE R73
657	PHOTOMETRY-GLASSES/MIRRORS	Float Glass	Visual Light Transmission	IS 14900
658	PHOTOMETRY-GLASSES/MIRRORS	Safety Glass	Image Separation	IS: 2553 (Part I)- 1990, IS: 2553 (Part II)- 1992, IS: 2553 (Part I)- 2018, IS: 2553 (Part II)- 2019, ECE R-43-01 supplement 2 to the 01 series of amendments, SANS:20043
659	PHOTOMETRY-GLASSES/MIRRORS	Safety Glass	Light Transmission	IS: 2553 (Part I)- 1990, IS: 2553 (Part II)- 1992, IS: 2553 (Part I)- 2018, IS: 2553 (Part II)- 2019, ECE R-43-01 supplement 2 to the 01 series of amendments, SANS:20043
660	PHOTOMETRY-GLASSES/MIRRORS	Safety Glass	Optical distortion	IS: 2553 (Part I)- 1990, IS: 2553 (Part II)- 1992, IS: 2553 (Part I)- 2018, IS: 2553 (Part II)- 2019, ECE R-43-01 supplement 2 to the 01 series of amendments, SANS:20043
661	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Adaptive Front- Lighting Systems (AFS)	i)Light distribution in a) driving beam b) passing beam	AIS:127 – March 2016, ECE R123 Rev.1 (July 2013), UN Regulation No. 149

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662	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Cycle Retro Reflecting Devices	Co-efficient of retro reflection test (Cl. No. 5.0)	IS/ISO 6742-2
663	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Cycle Retro Reflecting Devices	Colorimetry Test (Cl. No. 6.0)	IS/ISO 6742-2
664	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Direction Indicators	i) Intensity of light emitted (Light distribution) ii) Illumination area	AIS:010 (Part 3) (Rev. 1):2010, AIS:012 (Part 5) (Rev 1):2011, AIS-062 (Rev.1):2014, ECE R50 (October 2008), ECE R6 (March 2009), ADR 6/00 2005 ADR 53/00 2006, SANS 20050-2007, SANS 20006-2003, UN Regulation No. 148
665	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Filament Lamps and LED Light Sources	Electrical and Photometric characteristics	AIS-034 (Part 1) (Rev.1):2010, ECE R37 (October 2009), ADR 51/00 2006, SANS 20037-2007, AIS-130:2015, UN R 128
666	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Front Fog Lamps Cornering Lamps	Illumination (Light distribution)	AIS:012 (Part 1) (Rev 1):2011, AIS-012 (Part 3) (Rev.1):2011, AIS-062 (Rev.1):2014, ECE R19 (March 2009), ECE R119 R119 (July 2009), UN Regulation No. 149
667	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Head Lamps	Illumination (Light distribution) in a)driving beam b)passing beam	AIS:010 (Part 1, 2 and 4) (Rev. 1): 2010, AIS-062 (Rev.1):2014, ECE R112 (October 2008), ECE R 113 (July 2009), ECE R98 (October 2008), ADR 46/00 2006, UN Regulation No. 149
668	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	High Security Registration Plate (HSRP)	Colorimetric Properties (By day for plates)	AIS:159 – 2019, ISO:7591
669	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	High Security Registration Plate (HSRP)	Colour Test by Night	AIS:159 – 2019, ISO:7591
670	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	High Security Registration Plate (HSRP)	Measurements of luminance factor by day	AIS:159 – 2019, ISO:7591
671	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	High Security Registration Plate (HSRP)	Uniformity of retro-reflection on area of 5 X 5 cm	AIS:159 – 2019, ISO:7591

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672	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	High Security Registration Plates (HSRP)	Minimum value of co-efficient of retro-reflection	AIS:159-2019, ISO:7591
673	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Lighting and Light-Signalling Devices (Filament Lamps and LED Light Sources)	Colour measurement	AIS:010 (Part 5) - Rev. 1 – Dec. 2010, ECE R48: October
674	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Rear Fog Lamps	i) Intensity of light emitted (Light distribution) ii) Illumination area	AIS:012 (Part 2) (Rev 1):2011, AIS-062 (Rev.1):2014, ECE R38 (October 2008), ADR 52/002006, UN Regulation No. 148
675	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Rear Registration Plate (Mark) Illuminating Lamps (Number Plate Lamps)	i) Luminance distribution (Photometric Characteristics) ii) Gradient of Luminance	AIS:010 (Part 3) (Rev. 1):2010, AIS:012 (Part 4) (Rev 1):2011, AIS-062 (Rev.1):2014, ECE R50 (October 2008), ECE R4 (July 2008), ADR 53/00 2006, ADR 48/00 2006, SANS 20050-2007, SANS 20004-2012, UN Regulation No. 148
676	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Retro-Reflecting Devices (Reflex Reflectors), Warning Triangles	Photometric (Co-efficient of Luminous Intensity) and Colour Measurement	AIS-057 (Rev.1):2010, AIS - 022/2001, AIS-062 (Rev.1):2014, ECE R3 (February 2007), ECE R27 (February 2007), ADR 47/00 2006, SANS 20027-1998, SANS 20003-2005, UN Regulation No. 150
677	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Retro-Reflective Markings, Rear Marking Plates, Rear Marking Plates (Rear warning Triangles) and Retro Reflective Tapes for Bicycles.	Photometric (co-efficient of retro reflection) and colour measurement	AIS-090 (December 2005), AIS-089 (December 2005), AIS-088 (December 2005), AIS-062 (Rev.1):2014, ECE R104 (January 2000), ECE R70 (September 2001), ECE R69 (December 2001), IS 14221 (Part 1):2015, UN Regulation No. 150
678	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Reversing Lamps	i) Intensity of light emitted (Light distribution) ii) Illumination area	AIS:010 (Part 3) (Rev. 1):2010, AIS:012 (Part 7) (Rev 1):2011, AIS-062 (Rev.1):2014, ECE R50 (October 2008), ECE R23 (October 2008), ADR 53/00 2006, ADR 1/00 2005, SANS 20050-2007, SANS 20023-2012, UN Regulation No. 148

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679	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Stop Lamps, Front Position Lamps, Front End-outline Marker Lamps, Front Parking Lamp and Daytime Running Lamps, Rear Position Lamps, and Rear End-outline Marker Lamps, Rear Parking Lamp, Side-Marker Lamps	i) Intensity of light emitted (Light distribution) ii) Illumination area	AIS:010 (Part 3) (Rev. 1):2010, AIS:012 (Part 6) (Rev. 1):2011, AIS-012 (Part 8) (Rev.1):2011, AIS-012 (Part 10) (Rev.1):2011, AIS-012 (Part 9) (Rev.1):2011, AIS-062 (Rev.1):2014, ECE R50 (October 2008), ECE R7 (March 2009), ECE R77 (October 2008), ECE R87 (October 2008), ECE R91 (October 2008), ADR 53/00 2006, ADR 49/00 2006, ADR 60/00 2006, SANS 20050-2007, SANS 20007 -2002, UN Regulation No. 148

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LOCATION 2 - ARAI HOMOLOGATION & TECHNOLOGY CENTRE (ARAI HTC), PLOT NO. E1/1, MIDC CHAKAN PHASE - III, PUNE, MAHARASHTRA, INDIA Permanent Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Test on engine	A) Pollutants(measured on steady state cycles and transient test cycles)-CH4	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 498(E)_2015,GS
2	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	A) Pollutants(measured on steady state cycles and transient test cycles)-CO	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 498(E)_2015,GS

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3	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	A) Pollutants(measured on steady state cycles and transient test cycles)-CO2	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 498(E)_2015,GS
4	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	A) Pollutants(measured on steady state cycles and transient test cycles)-HC	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 498(E)_2015,GS

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5	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	A) Pollutants(measured on steady state cycles and transient test cycles)-NH3	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 498(E)_2015,GS
6	CHEMICAL- ATMOSPHERIC POLLUTION	Test on engine	A) Pollutants(measured on steady state cycles and transient test cycles)-Nox	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 498(E)_2015,GS

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7	CHEMICAL- ATMOSPHERIC POLLUTION	Test on engine	A) Pollutants(measured on steady state cycles and transient test cycles)- Particulate Matter	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 498(E)_2015,GS
8	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	A) Pollutants(measured on steady state cycles and transient test cycles)- Particulate Number	MoRTH/CMVR/TAP/115-116 Issue 4 Amendment 5, R-49-02 to R 49-06, 88/77/EEC as amended 2001/27/EC, 2005/55/EC as amended 2005/78/EC, (EU) no. 595/2009 as amended by (EU) no. 133/2014. AIS 137 Part-4, AIS 137 Part-7 ADR80/03, 97/68/EC as amended 2012/46/EU, R 96-04, 2000/25/EC as amended 2014/43, 40 CFR Part 89 Sub-Part E, 40 CFR Part 86 Sub-Part N,GSR 286 (E), GSR 83 (E), GSR 853(E), GSR 686(E), GSR 284(E), GSR 589(E), GSR276(E), GSR720(E), GSR 84(E), GSR 412(E), GSR 889(E), GSR 498(E)_2015,GS
9	CHEMICAL- ATMOSPHERIC POLLUTION	Test on Engine	B) Measurement of Engine Power	R-85-00 (for CI & SI engines only), 80/1269/EEC as amended 1999/99/EC ,R 120 -01, ADR30/01,IS14599:1999. AIS 137 Part -5, Part-7

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10	CHEMICAL- ATMOSPHERIC POLLUTION	Test on engine	C) Measurement of visible Pollutant (Smoke density)	UNECE-R24-03, 72/306/EEC as amended by 2005/21/EC, 77/537/EEC as amended by 97/54/EEC, GSR 103 (E), IS 8118:1998 , 40 CFR Part 86 Sub Part I, AIS 137 Part -5, Part-7
11	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler 3 Wheeler 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (4 Wheeler) & 20°C to 30 °C (2 & 3 wheeler) Idling Emission Measurement for HC	ECE R 101, EEC 70/220 last amended by 2006/96/EC, (EC) 715/2007, (EU) 2016/646, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1347, (EU) 2018/1832 GTR 02, 97/24/EC (chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 295/2018, (EU) 129/ 2019, CARB 2001 for EVAP only, TRAIS31 –J044(1)-01, TRAIS31 –J044(2)-01,TRAIS31 –J044(2)-02, TRIAS 99–006–02, TRIAS 31-J042(4)-02, Colombian Decree 910, Indonesian Decree 141 of 2003, GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007
12	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler 3 Wheeler 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (4 Wheeler) & 20°C to 30 °C (2 & 3 wheeler) Crankcase Emission	ECE R 101, EEC 70/220 last amended by 2006/96/EC, (EC) 715/2007, (EU) 2016/646, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1347, (EU) 2018/1832 GTR 02, 97/24/EC (chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 295/2018, (EU) 129/ 2019, CARB 2001 for EVAP only, TRAIS31 –J044(1)-01, TRAIS31 –J044(2)-01,TRAIS31 –J044(2)-02, TRIAS 99–006–02, TRIAS 31-J042(4)-02, Colombian Decree 910, Indonesian Decree 141 of 2003, GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007

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13	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler 3 Wheeler 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (4 Wheeler) & 20°C to 30 °C (2 & 3 wheeler) Evaporative Emissions (HC) (Volume of SHED Facility is 46.89 to 54.45 m3)	ECE R 101, EEC 70/220 last amended by 2006/96/EC, (EC) 715/2007, (EU) 2016/646, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1347, (EU) 2018/1832 GTR 02, 97/24/EC (chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 295/2018, (EU) 129/ 2019, CARB 2001 for EVAP only, TRAIS31 –J044(1)-01, TRAIS31 –J044(2)-01,TRAIS31 –J044(2)-02, TRIAS 99–006–02, TRIAS 31-J042(4)-02, Colombian Decree 910, Indonesian Decree 141 of 2003, GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007
14	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler 3 Wheeler 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (4 Wheeler) & 20°C to 30 °C (2 & 3 wheeler) Tail pipe emission for CH4	ECE R 101, EEC 70/220 last amended by 2006/96/EC, (EC) 715/2007, (EU) 2016/646, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1347, (EU) 2018/1832 GTR 02, 97/24/EC (chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 295/2018, (EU) 129/ 2019, CARB 2001 for EVAP only, TRAIS31 –J044(1)-01, TRAIS31 –J044(2)-01,TRAIS31 –J044(2)-02, TRIAS 99–006–02, TRIAS 31-J042(4)-02, Colombian Decree 910, Indonesian Decree 141 of 2003, GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007

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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
15	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler 3 Wheeler 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (4 Wheeler) & 20°C to 30 °C (2 & 3 wheeler) Tail pipe emission for CO2	ECE R 101, EEC 70/220 last amended by 2006/96/EC, (EC) 715/2007, (EU) 2016/646, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1347, (EU) 2018/1832 GTR 02, 97/24/EC (chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 295/2018, (EU) 129/ 2019, CARB 2001 for EVAP only, TRAIS31 –J044(1)-01, TRAIS31 –J044(2)-01,TRAIS31 –J044(2)-02, TRIAS 99–006–02, TRIAS 31-J042(4)-02, Colombian Decree 910, Indonesian Decree 141 of 2003, GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007
16	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler 3 Wheeler 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (4 Wheeler) & 20°C to 30 °C (2 & 3 wheeler) for Free Acceleration Smoke	ECE R 101, EEC 70/220 last amended by 2006/96/EC, (EC) 715/2007, (EU) 2016/646, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1347, (EU) 2018/1832 GTR 02, 97/24/EC (chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 295/2018, (EU) 129/ 2019, CARB 2001 for EVAP only, TRAIS31 –J044(1)-01, TRAIS31 –J044(2)-01,TRAIS31 –J044(2)-02, TRIAS 99–006–02, TRIAS 31-J042(4)-02, Colombian Decree 910, Indonesian Decree 141 of 2003, GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007

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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
17	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler 3 Wheeler 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (4 Wheeler) & 20°C to 30 °C (2 & 3 wheeler) Idling Emission Measurement for CO	ECE R 101, EEC 70/220 last amended by 2006/96/EC, (EC) 715/2007, (EU) 2016/646, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1347, (EU) 2018/1832 GTR 02, 97/24/EC (chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 295/2018, (EU) 129/ 2019, CARB 2001 for EVAP only, TRAIS31 –J044(1)-01, TRAIS31 –J044(2)-01,TRAIS31 –J044(2)-02, TRIAS 99–006–02, TRIAS 31-J042(4)-02, Colombian Decree 910, Indonesian Decree 141 of 2003, GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007
18	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler 3 Wheeler 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (4 Wheeler) & 20°C to 30 °C (2 & 3 wheeler) Tail pipe emission for CO	ECE R 101, EEC 70/220 last amended by 2006/96/EC, (EC) 715/2007, (EU) 2016/646, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1347, (EU) 2018/1832 GTR 02, 97/24/EC (chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 295/2018, (EU) 129/ 2019, CARB 2001 for EVAP only, TRAIS31 –J044(1)-01, TRAIS31 –J044(2)-01,TRAIS31 –J044(2)-02, TRIAS 99–006–02, TRIAS 31-J042(4)-02, Colombian Decree 910, Indonesian Decree 141 of 2003, GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007

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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
19	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler 3 Wheeler 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (4 Wheeler) & 20°C to 30 °C (2 & 3 wheeler) Tail pipe emission for Fuel consumption (calculated from CO,HC,CO2)	ECE R 101, EEC 70/220 last amended by 2006/96/EC, (EC) 715/2007, (EU) 2016/646, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1347, (EU) 2018/1832 GTR 02, 97/24/EC (chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 295/2018, (EU) 129/ 2019, CARB 2001 for EVAP only, TRAIS31 –J044(1)-01, TRAIS31 –J044(2)-01,TRAIS31 –J044(2)-02, TRIAS 99–006–02, TRIAS 31-J042(4)-02, Colombian Decree 910, Indonesian Decree 141 of 2003, GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007
20	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler 3 Wheeler 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (4 Wheeler) & 20°C to 30 °C (2 & 3 wheeler) Tail pipe emission for HC	ECE R 101, EEC 70/220 last amended by 2006/96/EC, (EC) 715/2007, (EU) 2016/646, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1347, (EU) 2018/1832 GTR 02, 97/24/EC (chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 295/2018, (EU) 129/ 2019, CARB 2001 for EVAP only, TRAIS31 –J044(1)-01, TRAIS31 –J044(2)-01,TRAIS31 –J044(2)-02, TRIAS 99–006–02, TRIAS 31-J042(4)-02, Colombian Decree 910, Indonesian Decree 141 of 2003, GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007

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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
21	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler 3 Wheeler 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (4 Wheeler) & 20°C to 30 °C (2 & 3 wheeler) Tail pipe emission for NOx	ECE R 101, EEC 70/220 last amended by 2006/96/EC, (EC) 715/2007, (EU) 2016/646, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1347, (EU) 2018/1832 GTR 02, 97/24/EC (chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 295/2018, (EU) 129/ 2019, CARB 2001 for EVAP only, TRAIS31 –J044(1)-01, TRAIS31 –J044(2)-01,TRAIS31 –J044(2)-02, TRIAS 99–006–02, TRIAS 31-J042(4)-02, Colombian Decree 910, Indonesian Decree 141 of 2003, GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007
22	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler 3 Wheeler 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (4 Wheeler) & 20°C to 30 °C (2 & 3 wheeler) Tail pipe emission for Particulate Matter	ECE R 101, EEC 70/220 last amended by 2006/96/EC, (EC) 715/2007, (EU) 2016/646, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1347, (EU) 2018/1832 GTR 02, 97/24/EC (chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 295/2018, (EU) 129/ 2019, CARB 2001 for EVAP only, TRAIS31 –J044(1)-01, TRAIS31 –J044(2)-01,TRAIS31 –J044(2)-02, TRIAS 99–006–02, TRIAS 31-J042(4)-02, Colombian Decree 910, Indonesian Decree 141 of 2003, GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007

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23	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler 3 Wheeler 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (4 Wheeler) & 20°C to 30 °C (2 & 3 wheeler) Tail pipe emission for particulate number	ECE R 101, EEC 70/220 last amended by 2006/96/EC, (EC) 715/2007, (EU) 2016/646, (EU) 2017/1151, (EU) 2017/1154, (EU) 2017/1347, (EU) 2018/1832 GTR 02, 97/24/EC (chapter 5), (EU) 168/2013 supplemented by (EU) 134/2014 and (EU) 44/2014, (EU) 295/2018, (EU) 129/ 2019, CARB 2001 for EVAP only, TRAIS31 –J044(1)-01, TRAIS31 –J044(2)-01,TRAIS31 –J044(2)-02, TRIAS 99–006–02, TRIAS 31-J042(4)-02, Colombian Decree 910, Indonesian Decree 141 of 2003, GB15744-2008, GB20998-2007, GB 14621-2011, GB 14622-2007
24	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler, 3 Wheeler, 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (for 4 Wheeler) & 20°C to 30 °C (for 2 & 3 wheeler) Tail Pipe emission for CO	GSR 493(E), GSR 400 (E), GSR 77(E), GSR 720(E), GSR 686 (E), GSR 853(E), GSR 284(E), GSR 589(E), GSR 786 (E), GSR 84(E), GSR 515 (E), GSR111(E), GSR 103(E), GSR 431 (E), GSR 487(E), GSR 498(E), GSR 99(E), GSR 412(E), GSR 682(E), GSR 629 (E), GSR 889(E), GSR 954(E), GSR 290 (E), GSR 490(E), GSR 518(E), GSR 1461(E), SO 1072(E), GSR 156 (E), GTR 15, GSR 881(E), AIS 137 PART 1,2,3,6, ECE R83-07, R40, R47, ADR 79/05, ECE R 154, EPA CFR 40 PART 86 –SUB PART E&F (ONLY 2W), GSR 308(E)

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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
25	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler, 3 Wheeler, 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (for 4 Wheeler) & 20°C to 30 °C (for 2 & 3 wheeler) Evaporative Emission (HC) (Volume of SHED Facility is 46.89 to 54.45 m3)	GSR 493(E), GSR 400 (E), GSR 77(E), GSR 720(E), GSR 686 (E), GSR 853(E), GSR 284(E), GSR 589(E), GSR 786 (E), GSR 84(E), GSR 515 (E), GSR111(E), GSR 103(E), GSR 431 (E), GSR 487(E), GSR 498(E), GSR 99(E), GSR 412(E), GSR 682(E), GSR 629 (E), GSR 889(E), GSR 954(E), GSR 290 (E), GSR 490(E), GSR 518(E), GSR 1461(E), SO 1072(E), GSR 156 (E), GTR 15, GSR 881(E), AIS 137 PART 1,2,3,6, ECE R83-07, R40, R47, ADR 79/05, ECE R 154, EPA CFR 40 PART 86 –SUB PART E&F (ONLY 2W), GSR 308(E)
26	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler, 3 Wheeler, 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (for 4 Wheeler) & 20°C to 30 °C (for 2 & 3 wheeler) Crankcase Emission	GSR 493(E), GSR 400 (E), GSR 77(E), GSR 720(E), GSR 686 (E), GSR 853(E), GSR 284(E), GSR 589(E), GSR 786 (E), GSR 84(E), GSR 515 (E), GSR111(E), GSR 103(E), GSR 431 (E), GSR 487(E), GSR 498(E), GSR 99(E), GSR 412(E), GSR 682(E), GSR 629 (E), GSR 889(E), GSR 954(E), GSR 290 (E), GSR 490(E), GSR 518(E), GSR 1461(E), SO 1072(E), GSR 156 (E), GTR 15, GSR 881(E), AIS 137 PART 1,2,3,6, ECE R83-07, R40, R47, ADR 79/05, ECE R 154, EPA CFR 40 PART 86 –SUB PART E&F (ONLY 2W), GSR 308(E)

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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
27	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler, 3 Wheeler, 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (for 4 Wheeler) & 20°C to 30 °C (for 2 & 3 wheeler) Free Acceleration smoke	GSR 493(E), GSR 400 (E), GSR 77(E), GSR 720(E), GSR 686 (E), GSR 853(E), GSR 284(E), GSR 589(E), GSR 786 (E), GSR 84(E), GSR 515 (E), GSR111(E), GSR 103(E), GSR 431 (E), GSR 487(E), GSR 498(E), GSR 99(E), GSR 412(E), GSR 682(E), GSR 629 (E), GSR 889(E), GSR 954(E), GSR 290 (E), GSR 490(E), GSR 518(E), GSR 1461(E), SO 1072(E), GSR 156 (E), GTR 15, GSR 881(E), AIS 137 PART 1,2,3,6, ECE R83-07, R40, R47, ADR 79/05, ECE R 154, EPA CFR 40 PART 86 –SUB PART E&F (ONLY 2W), GSR 308(E)
28	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler, 3 Wheeler, 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (for 4 Wheeler) & 20°C to 30 °C (for 2 & 3 wheeler) Idling Emission Measurement for CO	GSR 493(E), GSR 400 (E), GSR 77(E), GSR 720(E), GSR 686 (E), GSR 853(E), GSR 284(E), GSR 589(E), GSR 786 (E), GSR 84(E), GSR 515 (E), GSR111(E), GSR 103(E), GSR 431 (E), GSR 487(E), GSR 498(E), GSR 99(E), GSR 412(E), GSR 682(E), GSR 629 (E), GSR 889(E), GSR 954(E), GSR 290 (E), GSR 490(E), GSR 518(E), GSR 1461(E), SO 1072(E), GSR 156 (E), GTR 15, GSR 881(E), AIS 137 PART 1,2,3,6, ECE R83-07, R40, R47, ADR 79/05, ECE R 154, EPA CFR 40 PART 86 –SUB PART E&F (ONLY 2W),GSR 308(E)

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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
29	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler, 3 Wheeler, 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (for 4 Wheeler) & 20°C to 30 °C (for 2 & 3 wheeler) Idling emission measurement for HC	GSR 493(E), GSR 400 (E), GSR 77(E), GSR 720(E), GSR 686 (E), GSR 853(E), GSR 284(E), GSR 589(E), GSR 786 (E), GSR 84(E), GSR 515 (E), GSR111(E), GSR 103(E), GSR 431 (E), GSR 487(E), GSR 498(E), GSR 99(E), GSR 412(E), GSR 682(E), GSR 629 (E), GSR 889(E), GSR 954(E), GSR 290 (E), GSR 490(E), GSR 518(E), GSR 1461(E), SO 1072(E), GSR 156 (E), GTR 15, GSR 881(E), AIS 137 PART 1,2,3,6, ECE R83-07, R40, R47, ADR 79/05, ECE R 154, EPA CFR 40 PART 86 –SUB PART E&F (ONLY 2W),GSR 308(E)
30	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler, 3 Wheeler, 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (for 4 Wheeler) & 20°C to 30 °C (for 2 & 3 wheeler) Tail pipe emission CO2	GSR 493(E), GSR 400 (E), GSR 77(E), GSR 720(E), GSR 686 (E), GSR 853(E), GSR 284(E), GSR 589(E), GSR 786 (E), GSR 84(E), GSR 515 (E), GSR111(E), GSR 103(E), GSR 431 (E), GSR 487(E), GSR 498(E), GSR 99(E), GSR 412(E), GSR 682(E), GSR 629 (E), GSR 889(E), GSR 954(E), GSR 290 (E), GSR 490(E), GSR 518(E), GSR 1461(E), SO 1072(E), GSR 156 (E), GTR 15, GSR 881(E), AIS 137 PART 1,2,3,6, ECE R83-07, R40, R47, ADR 79/05, ECE R 154, EPA CFR 40 PART 86 –SUB PART E&F (ONLY 2W), GSR 308(E)

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31	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler, 3 Wheeler, 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (for 4 Wheeler) & 20°C to 30 °C (for 2 & 3 wheeler) Tail pipe emission for CH4	GSR 493(E), GSR 400 (E), GSR 77(E), GSR 720(E), GSR 686 (E), GSR 853(E), GSR 284(E), GSR 589(E), GSR 786 (E), GSR 84(E), GSR 515 (E), GSR111(E), GSR 103(E), GSR 431 (E), GSR 487(E), GSR 498(E), GSR 99(E), GSR 412(E), GSR 682(E), GSR 629 (E), GSR 889(E), GSR 954(E), GSR 290 (E), GSR 490(E), GSR 518(E), GSR 1461(E), SO 1072(E), GSR 156 (E), GTR 15, GSR 881(E), AIS 137 PART 1,2,3,6, ECE R83-07, R40, R47, ADR 79/05, ECE R 154, EPA CFR 40 PART 86 –SUB PART E&F (ONLY 2W), GSR 308(E)
32	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler, 3 Wheeler, 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (for 4 Wheeler) & 20°C to 30 °C (for 2 & 3 wheeler) Tail pipe emission for Fuel consumption (calculated from CO,HC. CO2)	GSR 493(E), GSR 400 (E), GSR 77(E), GSR 720(E), GSR 686 (E), GSR 853(E), GSR 284(E), GSR 589(E), GSR 786 (E), GSR 84(E), GSR 515 (E), GSR111(E), GSR 103(E), GSR 431 (E), GSR 487(E), GSR 498(E), GSR 99(E), GSR 412(E), GSR 682(E), GSR 629 (E), GSR 889(E), GSR 954(E), GSR 290 (E), GSR 490(E), GSR 518(E), GSR 1461(E), SO 1072(E), GSR 156 (E), GTR 15, GSR 881(E), AIS 137 PART 1,2,3,6, ECE R83-07, R40, R47, ADR 79/05, ECE R 154, EPA CFR 40 PART 86 –SUB PART E&F (ONLY 2W),GSR 308(E)

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33	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 wheeler, 3 Wheeler, 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (for 4 Wheeler) & 20°C to 30 °C (for 2 & 3 wheeler) Tail pipe emission for HC	GSR 493(E), GSR 400 (E), GSR 77(E), GSR 720(E), GSR 686 (E), GSR 853(E), GSR 284(E), GSR 589(E), GSR 786 (E), GSR 84(E), GSR 515 (E), GSR111(E), GSR 103(E), GSR 431 (E), GSR 487(E), GSR 498(E), GSR 99(E), GSR 412(E), GSR 682(E), GSR 629 (E), GSR 889(E), GSR 954(E), GSR 290 (E), GSR 490(E), GSR 518(E), GSR 1461(E), SO 1072(E), GSR 156 (E), GTR 15, GSR 881(E), AIS 137 PART 1,2,3,6, ECE R83-07, R40, R47, ADR 79/05, ECE R 154, EPA CFR 40 PART 86 –SUB PART E&F (ONLY 2W), GSR 308(E)
34	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler, 3 Wheeler, 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (for 4 Wheeler) & 20°C to 30 °C (for 2 & 3 wheeler) Tail pipe emission for NOx	GSR 493(E), GSR 400 (E), GSR 77(E), GSR 720(E), GSR 686 (E), GSR 853(E), GSR 284(E), GSR 589(E), GSR 786 (E), GSR 84(E), GSR 515 (E), GSR111(E), GSR 103(E), GSR 431 (E), GSR 487(E), GSR 498(E), GSR 99(E), GSR 412(E), GSR 682(E), GSR 629 (E), GSR 889(E), GSR 954(E), GSR 290 (E), GSR 490(E), GSR 518(E), GSR 1461(E), SO 1072(E), GSR 156 (E), GTR 15, GSR 881(E), AIS 137 PART 1,2,3,6, ECE R83-07, R40, R47, ADR 79/05, ECE R 154, EPA CFR 40 PART 86 –SUB PART E&F (ONLY 2W), GSR 308(E)

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35	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler, 3 Wheeler, 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (for 4 Wheeler) & 20°C to 30 °C (for 2 & 3 wheeler) Tail pipe emission for particulate matter	GSR 493(E), GSR 400 (E), GSR 77(E), GSR 720(E), GSR 686 (E), GSR 853(E), GSR 284(E), GSR 589(E), GSR 786 (E), GSR 84(E), GSR 515 (E), GSR111(E), GSR 103(E), GSR 431 (E), GSR 487(E), GSR 498(E), GSR 99(E), GSR 412(E), GSR 682(E), GSR 629 (E), GSR 889(E), GSR 954(E), GSR 290 (E), GSR 490(E), GSR 518(E), GSR 1461(E), SO 1072(E), GSR 156 (E), GTR 15, GSR 881(E), AIS 137 PART 1,2,3,6, ECE R83-07, R40, R47, ADR 79/05, ECE R 154, EPA CFR 40 PART 86 –SUB PART E&F (ONLY 2W), GSR 308 (E)
36	CHEMICAL- ATMOSPHERIC POLLUTION	Vehicle (4 Wheeler, 3 Wheeler, 2 Wheeler)	Emission Test from Temperature -10°C to 30°C (for 4 Wheeler) & 20°C to 30 °C (for 2 & 3 wheeler) Tail pipe emission for Particulate number	GSR 493(E), GSR 400 (E), GSR 77(E), GSR 720(E), GSR 686 (E), GSR 853(E), GSR 284(E), GSR 589(E), GSR 786 (E), GSR 84(E), GSR 515 (E), GSR111(E), GSR 103(E), GSR 431 (E), GSR 487(E), GSR 498(E), GSR 99(E), GSR 412(E), GSR 682(E), GSR 629 (E), GSR 889(E), GSR 954(E), GSR 290 (E), GSR 490(E), GSR 518(E), GSR 1461(E), SO 1072(E), GSR 156 (E), GTR 15, GSR 881(E), AIS 137 PART 1,2,3,6, ECE R83-07, R40, R47, ADR 79/05, ECE R 154, EPA CFR 40 PART 86 –SUB PART E&F (ONLY 2W), GSR 308 (E)
37	ELECTRICAL- CELLS & BATTERIES	Battery Operated Vehicles Traction Batteries	Over Charge Test	AIS-048
38	ELECTRICAL- CELLS & BATTERIES	Battery Operated Vehicles Traction Batteries	Penetration Test	AIS-048
39	ELECTRICAL- CELLS & BATTERIES	Battery Operated Vehicles Traction Batteries	Short Circuit Test	AIS-048
40	ELECTRICAL- CELLS & BATTERIES	Lithium-ion traction battery packs and systems	Energy and Capacity Measurement at RT	ISO 12405

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41	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Traction Motors	Measurement of Net Power and Maximum Thirty Minute Power	AIS 041, AIS 102 Part 1, AIS 102 Part 2, AIS 137, AIS 123 Part 1, AIS 123 Part 2, AIS 123 Part 3, ECE R85
42	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - ESA	Bulk Current Injection Method	IS/ISO 13766-1
43	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - ESA	Bulk Current Injection Method	IS/ISO 13766-2
44	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - ESA	Radiated Immunity Test	IS/ISO 13766-1
45	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - ESA	Radiated Immunity Test	IS/ISO 13766-2
46	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - Vehicle	Radiated Immunity (In ALSE Chamber)	IS/ISO 13766-1
47	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - Vehicle and ESA	Electrostatic Discharge (Air and Contact Discharge)	IS/ISO 13766-1
48	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - Vehicle and ESA	Electrostatic Discharge (Air and Contact Discharge)	IS/ISO 13766-2
49	ELECTRONICS- EMC TEST FACILITY	Earth-Moving and Building Construction Machinery - Vehicle and ESA	Radiated Emission (In ALSE Chamber)	IS/ISO 13766-1
50	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Flicker Test	IEC 61851-21-2
51	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board and On Board Chargers	Conducted Emission Test	IS 17017 Part 21/Sec2
52	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Charger	Conducted Emission Test	IEC 61851-21-2
53	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Conducted RF Fields	IEC 61851-21-2
54	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Conducted RF Fields	IS 17017(Part 21/Sec 2)
55	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Electrostatic Discharge (Air and Contact Discharge)	IEC 61851-21-2
56	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Electrostatic Discharge (Air and Contact Discharge)	IS 17017(Part 21/Sec 2)
57	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Fast Transient (Burst) on power / signal lines	IEC 61851-21-2
58	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Fast Transient (Burst) on power / signal lines	IS 17017(Part 21/Sec 2)

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59	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Flicker Test	IS 17017(Part 21/Sec 2)
60	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Harmonic Current Emission	IEC 61851-21-2
61	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Harmonic Current Emission	IS 17017(Part 21/Sec 2)
62	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Immunity to Surges	IEC 61851-21-2
63	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Immunity to Surges	IS 17017(Part 21/Sec 2)
64	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Immunity to Voltage Dips, Short Interruptions and Voltage Variation	IEC 61851-21-2
65	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Immunity to Voltage Dips, Short Interruptions and Voltage Variation	IS 17017(Part 21/Sec 2)
66	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Radiated Emission Test	IEC 61851-21-2
67	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Radiated Emission Test	IS 17017(Part 21/Sec 2)
68	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Radiated RF fields	IEC 61851-21-2
69	ELECTRONICS- EMC TEST FACILITY	Electric Vehicle Conductive Charging System - Off Board Chargers	Radiated RF fields	IS 17017(Part 21/Sec 2)
70	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles (Category L, M and N), Vehicle Electronic Systems / Sub-systems and other Components	Conducted Emission on AC or DC Power Lines & Network and telecommunication access from vehicle or ESA	AIS 004 (Part 3) Rev.1 (Annex 11,12,17 & 18)
71	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles (Category L, M and N), Vehicle Electronic Systems / Sub-systems and other Components	Conducted Emission on AC or DC Power Lines & Network and telecommunication access from vehicle or ESA	ECE R 10.06: (Annex 13,14,19 & 20)
72	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles (Category L, M and N), Vehicle Electronic Systems / Sub-systems and other Components	Conducted Emission on AC or DC Power Lines & Network and telecommunication access from vehicle or ESA	ECE R-10 Rev.05 (Annex 13,14,19 & 20)
73	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles (Category L, M and N), Vehicle Electronic Systems / Sub-systems and other Components	Flicker Test	ECE R 10.06(Annex 12 & 18)
74	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles (Category L, M and N), Vehicle Electronic Systems / Sub-systems and other Components	Flicker Test	ECE R-10 Rev.05 (Annex 12 & 18)

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75	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles (Category L,M and N), Vehicle Electronic Systems /Sub-systems and other Components	Electrical Fast Transient / Burst disturbances conducted along AC and DC power lines.	ECE R 10.06: (Annex 15 & 21)
76	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles (Category L,M and N), Vehicle Electronic Systems /Sub-systems and other Components	Electrical Fast Transient / Burst disturbances conducted along AC and DC power lines.	ECE R-10 Rev.05(Annex 16 & 22)
77	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles(Category L,M and N), Vehicle Electronic Systems /Sub-systems and other Components	Immunity to Surges conducted along AC and DC power lines	ECE R 10.06: (Annex 16 & 22)
78	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles(Category L,M and N), Vehicle Electronic Systems /Sub-systems and other Components	Harmonic Current Emission	ECE R 10.06 (Annex 11 & 17)
79	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles(Category L,M and N), Vehicle Electronic Systems /Sub-systems and other Components	Harmonic Current Emission	ECE R-10 Rev.05(Annex 11 & 17)
80	ELECTRONICS- EMC TEST FACILITY	Electric/Hybrid Vehicles(Category L,M and N), Vehicle Electronic Systems /Sub-systems and other Components	Immunity to Surges conducted along AC and DC power lines	ECE R-10 Rev.05(Annex 16 & 22)
81	ELECTRONICS- EMC TEST FACILITY	Military Equipment and Systems, Sub-system	Radiated Emission (In ALSE Chamber)	MIL461 G
82	ELECTRONICS- EMC TEST FACILITY	Motor Vehicles (Category L, M and N)	Radiated Emission (In ALSE Chamber)	AIS004(Part 1)/1999 AIS004(Part 3)/2009 (Annex 2 & 3), AIS 004 (Part 3) Rev.1: 2019 (Annex 2 & 3), ECE R-10 Rev.05 (Annex 4 & 5) ECE R 10.6: 2019 (Annex 4 & 5) SANS 20010:2010 (Annex 4 & 5) CISPR 12
83	ELECTRONICS- EMC TEST FACILITY	Motor Vehicles (Category L, M and N)	Radiated Immunity (In ALSE Chamber)	AIS004 (Part 3)/2009 (Annex 4) AIS 004 (Part 3) Rev.1: 2019 (Annex 4) ECE R-10 Rev.05 (Annex 6) ECE R 10.6: 2019 (Annex 6) 97/24/EC Chapter 8 (Annex 4) SANS 20010:2010 (Annex 6) ISO 11451-2
84	ELECTRONICS- EMC TEST FACILITY	Slow decrease and increase of supply voltage. Discontinuities in Supply Voltage Withstand Voltage Reverse Polarity Short Circuit	Vehicle Electronic Systems / Sub-systems operating on vehicle battery supply	ISO 16750-2 (2006, 2012), ISO 19453-4
85	ELECTRONICS- EMC TEST FACILITY	Telecommuncation Equipment/ISM Equipment	Radiated Immunity (In ALSE Chanber)	TEC/SD/DD/EMC-221/05/OCT-16 IEC 61000-4-3 Edition 4.0
86	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM equipment	Conducted RF Immunity on Power Lines	TEC/SD/DD/EMC-221-05/OCT-16 IEC 61000-4-6
87	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM Equipment	DC Voltage dips, Short Interruptions & Voltage Variations Immunity	IEC 61000-4-29

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88	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM equipment (Single Phase & Three Phase System)	Harmonic and Interharmonic Immunity	IEC 61000-2-2:2002 IEC 61000-4-13
89	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM Equipment (Single Phase & Three Phase System)	Immunity to Voltage Dips, Short Interruptions and Voltage Variation	IEC 61000-4-11
90	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM Equipment (Single Phase and Three Phase System)	Voltage Fluctuation Immunity Test	IEC 61000-4-14
91	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM Equipment (Single Phase and Three Phase System), Electric/Hybrid Vehicles (Category L, M and N), Vehicle Electronic Systems / Sub-systems and other Components	Flicker Test	AIS 004 (Part 3) Rev.1: 2019 (Annex 10 & 16), IEC 61000-3-3:2013 IEC 61000-3-11
92	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM Equipment (Single Phase and Three Phase System), Electric/Hybrid Vehicles (Category L, M and N), Vehicle Electronic Systems / Sub-systems and other Components	Immunity to Surges	AIS 004 (Part 3) Rev.1: 2019 (Annex 14 & 20) TEC/SD/DD/EMC-221/05/OCT-16 IEC 61000-4-5
93	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM Equipment (Single Phase and Three Phase System), Electric/Hybrid Vehicles (Category L, M and N), Vehicle Electronic Systems / Sub-systems and other Components	Fast Transient (Burst) on power / signal lines	AIS 004 (Part 3) Rev.1: 2019 (Annex 13 & 19), TEC/SD/DD/EMC-221/05/OCT-16 IEC 61000-4-4:2012 IS 14700 (Part 4/Sec 4)
94	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM Equipment, Electric/Hybrid Vehicles (Category L, M and N), Vehicle Electronic Systems / Sub-systems and other Components	Harmonic Current Emission	AIS 004 (Part 3) Rev.1: 2019 (Annex 9 & 15), IEC 61000-3-2:2018 IEC 61000-3-12
95	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ ISM Equipment, Vehicle Electronic Systems / Sub-systems and other components	Electrostatic Discharge (Air and Contact Discharge)	TEC/SD/DD/EMC-221/05/OCT-16 IEC 61000-4-2: 2008 ISO 10605
96	ELECTRONICS- EMC TEST FACILITY	Telecommunication Equipment/ISM Equipment	Radiated Emissions (In ALSE chamber)	TEC/SD/DD/EMC-221/05/OCT-16 CISPR 11:2016 CISPR 32
97	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	BCI/Harness Excitation Method	ECE R- 10 Rev.05 (Annex 9)
98	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	BCI/Harness Excitation Method	ECE R-10 Rev.06 (Annex 9)
99	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	BCI/Harness Excitation Method (Closed Loop and Open Loop)	ISO 11452-4 fifth edition
100	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	BCI/Harness Excitation Method (Closed Loop)	AIS004:Part 3 (Annex 7)
101	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	BCI/Harness Excitation Method (Closed Loop)	AIS004:Part 3 Rev.1 (Annex 7)
102	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	BCI/Harness Excitation Method (Closed Loop)	SANS 20010 (Annex 9)

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103	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Conducted Emissions	CISPR 25 edition 4.0
104	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Emissions (In ALSE chamber)	AIS004 (Part 3) (Annex 5 & 6)
105	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Emissions (In ALSE chamber)	AIS004 (Part 3) Rev.1 (Annex 5 & 6)
106	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Emissions (In ALSE chamber)	CISPR 25 edition 4.0
107	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Emissions (In ALSE chamber)	ECE R-10 Rev.05 (Annex 7 & 8)
108	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Emissions (In ALSE chamber)	ECE R-10 Rev.06 (Annex 7 & 8)
109	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems	Radiated Emissions (In ALSE chamber)	SANS 20010 (Annex 7 & 8)
110	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other components	Insulation Resistance	ISO 16750-2 (2006 and 2012), ISO 19453-4
111	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components	Radiated Immunity (In ALSE chamber)	ISO 11452-2
112	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components	Radiated Immunity (In ALSE chamber) - Radar Pulse	Renault 36-00-808/N FMC1278, GMW 3097 (2006, 2012,2015), ES96200-00 Ver. 18
113	ELECTRONICS- EMC TEST FACILITY	Vehicle Electronic Systems / Sub-systems operating	Immunity to narrowband radiated electromagnetic energy. Portable/Handy transmitters	ISO 11452-9
114	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electric Vehicle Conductive Charging System	Damp Heat Functional Test	IEC 61851-1
115	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electric Vehicle Conductive Charging System	Damp Heat Functional Test	IS 17017 (Part 1) cl. 12.9
116	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electric Vehicle Conductive Charging System	Maximum Temperature Functional Test	IS 17017 (Part 1) Cl 12.10.2
117	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electric Vehicle Conductive Charging System	Minimum Temperature Functional Test	IEC 61851-1 cl 12.10
118	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electric Vehicle Conductive Charging System	Minimum Temperature Functional Test	IS 17017 (Part 1) Cl 12.10.1

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119	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components	Performance parametric test (tri temperature/ tri voltage)	IS 16833: 2018, IS 16490:2016, AIS 153: 2018, AIS 076: 2007, AIS 140
120	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Military Products	Mechanical Shock	JASO D 001-94 IEC 61373:2013 IEC-60068-2-27 :2008 AIS 048: 2009, IS 16833: 2018, AIS 156: 2019, AIS 123 Part 1: 2013, AIS 123 Part 2: 2016, AIS 123 Part 3: 2016, MoRTH / CMVR / TAP-115/116 (Issue 4), ISO 19453-3:2018, ISO 16750-3:2012 JSS55555
121	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Military Products, Telecommunication Equipment	Cold Test / Low Temperature	IEC 60068-2-1:2007 IS 9000(Part 2):1977 JSS 55555:2012, IS 16833:2018, 16490:2016, AIS 153:2018, AIS 076:2007, AIS 140:2016, MoRTH / CMVR / TAP-115/116 (Issue 4), QM-333
122	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Military Products, Telecommunication Equipment	Composite temperature/humidity cyclic test / Tropical Exposure	IEC 60068-2-38:2021 IS 9000(Part 6):1978 JSS 55555 : 2012, QM-333
123	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Military Products, Telecommunication Equipment	Damp Heat (Steady State) Test	IEC 60068-2-78:2012 IS 9000(Part 4):2008 JSS 55555:2012, MoRTH / CMVR / TAP-115/116 (Issue 4), ISO 19453-4:2018, ISO 16750-4:2010, QM-333
124	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Military Products, Telecommunication Equipment	Dry Heat Test / High Temperature Test	IEC 60068-2-2:2007 IS 9000(Part 3):1977 JSS 55555 : 2012, IS 16833: 2018, IS 16490:2016, AIS 153: 2018, AIS 076: 2007, AIS 140: 2016, AIS 123 Part 1: 2013, AIS 123 Part 2: 2016, AIS 123 Part 3: 2016, MoRTH / CMVR / TAP-115/116 (Issue 4), ISO 19453-4:2018, ISO 16750-4:2010, QM-333

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125	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Military Products, Telecommunication Equipment	Vibration Testing Sine and Random	JIS D1601:1995 IEC-60068-2-64 :2008 SAE J1455:2017 SAE J1211:2012 IS 9000 (Part VIII):2003 IEC 60068-2-6:2007 ISO 16750-3:2012 IS 16833: 2018 AIS 153: 2018 AIS 076: 2007 AIS 140: 2016 AIS048:2009 JASO D 001-94, QM-333,JSS 55555 :2012 Rev 03, IEC/BS EN 61373:2010 Ed.2.0
126	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Telecommunication Equipment	Damp Heat, cyclic (12 h + 12 h cycle)	IEC 60068-2-30:2005 IS 9000(Part 5/Sec 2):1981, IS 16833:2018, IS 16490:2016, AIS 153:2018, AIS 076:2007, AIS 140: 2016, ISO 16750-4:2010, ISO 19453-4:2018, QM-333
127	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Vehicle Electronic Systems / Sub-systems and other Components, Telecommunication Equipment, Military Products	Temperature Cycling Test	SAE J1455:2017 IEC-60068-2-14 Nb:2009 IS 9000(Part 14/Sec 2):1988, ISO 16750-4:2010(E), Policy 66301/Policy-07/DQA(N)/QA-07 Dated 09-Aug-2019, AIS 038: 2015, AIS 156: 2019, QM-333
128	MECHANICAL-AUTOMOTIVE COMPONENTS	5th wheel coupling and mounting plate	a) Static test-1 Limit of deformation width under specified load b) Static test-2 Separation of coupling pin under specified load	AIS 091/ Part 1, 2009 & ECE R 55,2018,Annexure 6 clause No. 3.7.2.2
129	MECHANICAL-AUTOMOTIVE COMPONENTS	5th wheel coupling and mounting plate	Dynamic test Number of cycles for test pass or fail Horizontal force and vertical force	AIS 091/Part 1, 2009 & ECE R 55,2018, Annexure 6 clause No.2.2 and 3.7.3.1
130	MECHANICAL-AUTOMOTIVE COMPONENTS	5th Wheel King Pin	Dynamic test Number of cycles for test pass or fail	AIS 091/Part 1, 2009 & ECE R 55,2018, Annexure 5 clause 8,Annexure 6 clause No. 2.2 and 3.9
131	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Driveline Components (Passenger car, HCV, LCV: Transmissions, Transaxles, Transfer case and Axles)	Parasitic Loss measurement (in terms of Speed and Torque).	1. SAEJ1540- published in 2012 -Manual Transmission Efficiency and Parasitic loss measurement. (Clause 5.3) 2. SAEJ2453– published in 2011 - Manual Transmission and Transaxle Efficiency and Parasitic loss measurement (clause 5.3)

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132	MECHANICAL-AUTOMOTIVE COMPONENTS	Automotive Driveline Components (Passenger car, HCV, LCV: Transmissions, Transaxles, Transfer case and Axles)	Efficiency measurement (in terms of Speed and Torque).	1. SAEJ1266–published in 2001-Axle Efficiency Test Procedure (Excluding clause 7.5). 2. SAEJ1540- published in 2012 - Manual Transmission Efficiency and Parasitic loss measurement (clause 5.2). 3. SAEJ2453– published in 2011 - Manual Transmission and Transaxle Efficiency and Parasitic loss measurement (clause 5.2)
133	MECHANICAL-AUTOMOTIVE COMPONENTS	component	Fatigue and Static test	FMCE/TP/03
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS		Axial Fatigue test: number of cycles for test (pass or fail) Fatigue life estimation (S-N Curve)	ASTM E466
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals	Modulus of Elasticity	ASTM E111
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals	Rockwell Hardness - HRBW	IS 1586 (Pt.1)
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals	Rockwell Hardness - HRC	IS 1586 (Pt.1)
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals	Tensile test at room temperature - Elongation	ASTM E8
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals	Tensile test at room temperature - UTS	ASTM E8
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metals	Tensile test at room temperature - YS	ASTM E8
141	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-Ferrous Metals	Evaluation of Elements by Energy Dispersive Analysis (EDS) on SEM	AML/TP/026
142	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-Ferrous Metals	Microscopic Examination by Metallurgical Microscope	AML/TP/021

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143	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-Ferrous Metals	Microscopic Examination by Scanning Electron Microscope (SEM)	AML/TP/026
144	MECHANICAL-METALLOGRAPHY TEST	Steel samples	Depth of decarburization of Steel	ASTM E1077
145	MECHANICAL-METALLOGRAPHY TEST	Steel samples	Grain size analysis	IS 4748
146	MECHANICAL-METALLOGRAPHY TEST	Steel samples	Inclusion Content of Steel	IS 4163
147	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Ambulance Stretcher	Dynamic test (Resistance to Inertia Effects) (Using Bending bar sled test facility)	Clause 5.0 of AIS-125 (Part 1) including Amendment No. 2
148	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Articulated frame lock — Performance requirements	Performance test requirements	IS/ISO 10570
149	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Automotive vehicle of Agricultural tractor	Method for measuring the performance for service brakes and parking brakes of agricultural trlctors.	IS: 12061
150	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Bumper	FOUR POSTER TEST PROCEDURE FOR EVALUATION OF BUMPER FITMENT	IS 15901 As per ANNEX C (Clause 4.1.2)
151	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Bumper	VIBRATION TEST OF THE BUMPER ASSEMBLY	IS 15901 as per ANNEX B (Clause 4.1.1)
152	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Eurosid 2	Abdomen Impact Test	Annex 3(B) of AIS-099 including Amendment No. 3, Annex 6 of ECE 95-04 Series of amendments
153	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Eurosid 2	Head Drop Test	Annex 3(B) of AIS-099 including Amendment No. 3, Annex 6 of ECE 95-04 Series of amendments
154	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Eurosid 2	Lumbar Spine Impact Test	Annex 3(B) of AIS-099 including Amendment No. 3, Annex 6 of ECE 95-04 Series of amendments
155	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Eurosid 2	Neck Test	Annex 3(B) of AIS-099 including Amendment No. 3, Annex 6 of ECE 95-04 Series of amendments

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156	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Eurosid 2	Pelvis Impact Test	Annex 3(B) of AIS-099 including Amendment No. 3, Annex 6 of ECE 95-04 Series of amendments
157	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Eurosid 2	Rib Module Test	Annex 3(B) of AIS-099 including Amendment No. 3, Annex 6 of ECE 95-04 Series of amendments
158	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Eurosid 2	Shoulder Impact Test	Annex 3(B) of AIS-099 including Amendment No. 2, Annex 6 of ECE 95-04 Series of amendments
159	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Hybrid III 50th %tile	Head drop Test	Annex 7 of AIS-098 including Amendment No. 2, Cl. 2.0 and Annex 10 of ECE 94-03 Series of amendments
160	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Hybrid III 50th %tile	Hip Joint Range of Motion Test	Annex 7 of AIS-098 including Amendment No. 2, Cl. 2.0 and Annex 10 of ECE 94-03 Series of amendments
161	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Hybrid III 50th %tile	Knee Impact Test	Annex 7 of AIS-098 including Amendment No. 2, Cl. 2.0 and Annex 10 of ECE 94-03 Series of amendments
162	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Hybrid III 50th %tile	Knee Slider Impact Test	Annex 7 of AIS-098 including Amendment No. 2, Cl. 2.0 and Annex 10 of ECE 94-03 Series of amendments
163	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Hybrid III 50th %tile	Lower Foot Impact Test With Shoe	Annex 7 of AIS-098 including Amendment No. 2, Cl. 2.0 and Annex 10 of ECE 94-03 Series of amendments
164	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Hybrid III 50th %tile	Lower Foot Impact Test Without Shoe	Annex 7 of AIS-098 including Amendment No. 2, Cl. 2.0 and Annex 10 of ECE 94-03 Series of amendments
165	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Hybrid III 50th %tile	Neck Extension Test	Annex 7 of AIS-098 including Amendment No. 2, Cl. 2.0 and Annex 10 of ECE 94-03 Series of amendments
166	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Hybrid III 50th %tile	Neck Flexion Test	Annex 7 of AIS-098 including Amendment No. 2, Cl. 2.0 and Annex 10 of ECE 94-03 Series of amendments

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167	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Hybrid III 50th %tile	Thorax Impact Test	Annex 7 of AIS-098 including Amendment No. 2, Cl. 2.0 and Annex 10 of ECE 94-03 Series of amendments
168	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Crash Test Dummy- Hybrid III 50th %tile	Upper Foot Impact Test	Annex 7 of AIS-098 including Amendment No. 2, Cl. 2.0 and Annex 10 of ECE 94-03 Series of amendments
169	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Defence and Industrial equipment	DAMP HEAT	JSS 55555
170	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Defence and Industrial equipment	HIGH TEMPERATURE	JSS 55555 TEST NUMBER 17, CLAUSE 3.2.3 PROCEDURE 3
171	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Defence and Industrial equipment	Low Temperature	JSS 55555
172	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Defence and Industrial equipment	Solar Radiation	JSS 55555
173	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Defence and Industrial equipment	Tropical Exposure	JSS 55555
174	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Earth Moving machinery - Laboratory Evaluation of Operator Seat Vibration	Calculated Transmissibility & SEAT Factor, Clause no. 05 & 06	IS/ISO 7096
175	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Earth Moving Machinery Laboratory Tests and Performance Requirements for Protective Structure of Excavators	Force resistance in the lateral, vertical and longitudinal directions, and energy absorption in the lateral and longitudinal direction.	IS/ISO 12117-2
176	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Earth-Moving Machinery-Lift-Arm Support Devices	Lift-Arm Support Devices-Performance Requirement. Clause No. 4.0	IS/ISO 10533
177	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Falling Object Protective Structure	Laboratory test - Impact	IS/ISO 3449
178	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Front & Rear Bumpers of vehicle (Vehicle testing)	Vehicle Impact Test	Cl. No. 4.2 of IS 15901-2010, Annex-3 Cl. No. 2.7.5 & 2.8.4 of ECE 42.00

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179	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Interior fittings	Head Form Impact Test (Using Occupant Impact test Rig)	Annex – 4 Cl. No. 1.4.2 & 2.1 of ECE 21.01, Annex – B, Cl. No. B-1.4.2 & B-2.1 of IS: 15223:2002 Appendix A, Annex – 4 Cl. No. 1.4.2 & 2.1 of ADR 21, SANS 20021:1993
180	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Interior fittings	Impact Test (Pendulum Impactor) (Using Universal Launcher – Pedestrian test facility)	Annex – 4 Cl. No. 1.4.2 & 2.1 of ECE R 21.01, Annex – B, Cl. No. B-1.4.2 & B-2.1 of IS: 15223:2002, Appendix A, Annex – 4 Cl. No. 1.4.2 & 2.1 of ADR 21, SANS 20021:1993
181	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Passenger vehicles category of M1 and N1, including vehicles equipped with electric power train	Lateral Collision (Crash) Test	Cl. 5.2 of AIS-099 including Amendment No. 3, Cl. 5.1 of ECE 95-04 Series of amendments (2021), Cl. 5.1 of ADR 72/00
182	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Passenger vehicles category of M1 and N1, including vehicles equipped with electric power train	Offset Frontal Collision (Crash) Test	Cl. 5.2 of AIS-098 including Amendment No. 2, Cl. 5.2 of ECE 94-03 Series of amendments, Cl. 5.1 of ADR 73/00, SANS 20094:2009/ECE R94-03 Series of amendments
183	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Passenger vehicles category of M1 and N1, including vehicles equipped with electric power train	Rear Impact (Crash) Test	Cl. 5.0 of AIS-101 including Amendment No. 1
184	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Passenger vehicles category of M1 and N1, including vehicles equipped with electric power train.	Full Frontal Collision (Crash) Test	Cl. 5.1 of AIS-096 including Amendment No. 4, Cl. 5.1 of ECE 12.04, Cl 10.2.2, 10.2.3 and 10.2.4 of ADR 10/00, SANS 20012:1994/ECE R12:1994 Rev 3
185	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pedestrian Safety- Front structure of Passenger cars	Pedestrian Lower leg(Flex Pli) form test	Cl. 7.1.1 & Annex 5 Cl. 5.1 of AIS 100 Amendment 2 ,Appendix – 5 Cl. 1 & Cl. 5.1.1 of ECE 127.02,Cl. 7.1.1 & Annex 5 Cl. 5.1 of GTR-9 Amendement 1
186	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pedestrian safety- Front structure of Passenger cars	Pedestrian Adult head form test	Cl. 5.2. & 7.4 of AIS 100 Appendix – 5 Cl. 5 & Cl. 5.2 of ECE 127.02, Cl. 5.2. & 7.3 of GTR-9 Amendement 1

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187	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pedestrian safety- Front structure of Passenger cars	Pedestrian Child head form test	Cl. 5.2. & 7.3 of AIS 100 Appendix – 5 Cl. 4 & Cl. 5.2 of ECE 127.02, Cl. 5.2. & 7.3 of GTR-9 Amendement 1
188	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pedestrian safety- Front structure of Passenger cars	Pedestrian Lower leg (TRL Impactor) form test	Cl. 7.1.1 & Annex 5 Cl. 5.1 of AIS 100 Appendix – 5 Cl. 1 & Cl. 5.1.1 of ECE 127.02, Cl. 7.1.1 & Annex 5 Cl. 5.1 of GTR-9 Amendement 1
189	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pedestrian safety- Front structure of Passenger cars	Pedestrian Upper leg form test	Cl. 7.1.2 & Cl 5.1 of AIS 100 Appendix – 5 Cl. 2 & Cl. 5.1.2 of ECE 127.02, Cl. 7.1.2 & Cl 5.1 of GTR-9 Amendement 1
190	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Protecting Structure of Agriculture tractor	Longitudinal, Lateral and horizontal tests	IS 11821 Part 2 2018, ISO 5700 : 2013 Clause No. 6 and Clause No. 07
191	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Railways and Industrial Equipment	Functional random vibration test conditions, Simulated long-life testing at increased random vibration levels, Shock testing conditions	BS EN 61373 as per Clause 8,9,10
192	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Railways and Industrial equipment	Random vibration test conditions, Simulated long-life testing at increased random vibration levels. Shock testing conditions	IEC 61373 as per Clause 8,9,10
193	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Requirements of Mechanical Couplings between Agricultural Tractor and Towed Vehicle and Vertical Load on the Coupling Point	Durability Test as per Annexure B Or Static Test as per Annexure C	AIS-091 (Part 2)
194	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Roll Over Protective Structure	Force resistance in the lateral, vertical and longitudinal directions, and energy absorption in the lateral direction. Clause no. 6.0	IS/ISO 3471
195	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seats	Luggage Retention test (Using Bending bar sled test facility)	Cl. 6.3 of ECE 17.09, Cl. No. 5.9 of IS15546:2005, Cl.5.15 of Appendix A of ADR 3/03, Cl.5.15 SANS 20017:2004
196	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Seats and their anchorages	Dynamic test (Resistance to Inertia Effects) (Using Bending bar sled test facility)	Cl. 5.1, 5.3 of IS-15546:2005 Cl. 6.3 of ECE 17.08 Cl. 4.2.3, 4.3.3 of AIS-023Cl. 6.3 of Appendix A of ADR 3/03Cl. 6.3 of SANS 20017:2004

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197	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Side Doors of Passenger Cars	Strength Test	Cl.No.S6.3(d) of FMVSS 214, Cl.No.29.2.3.4 of ADR 29, Annexure A, Cl.No. A-1.4 of IS:12009:1995
198	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Steering control assembly	Body Block Test (Using Occupant Impact test Rig)	Cl. No. 5.2 of ECE R 12.04, Cl. No. 5.2 of AIS 096 Appendix – A Cl. No. 5.2 of ADR 10, SANS 20012:1994
199	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Steering control assembly	Body Block Test (Using Universal Launcher – Pedestrian test facility)	Cl. No. 5.2 of ECE R 12.04, Cl. No. 5.2 of AIS 096 Appendix – A Cl. No. 5.2 of ADR 10, SANS 20012:1994
200	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Steering control assembly	Head Form Test (Using Universal Launcher – Pedestrian test facility)	Cl. No. 5.3 of ECE R 12.04, Cl. No. 5.3 of AIS 096 Appendix – A Cl. No. 5.3 of ADR 10, SANS 20012:1994
201	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Tip Over Protective Structure (TOPS)	Longitudinal & Lateral tests	IS/ISO 12117-2
202	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials	Tensile test of plastics (Room temp.) - T.S.	ASTM D638
203	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials	Tensile test of plastics (Room temp.): Elongation	ASTM D638
204	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic samples	Flexural strength of Plastics (Room Temp.)	ASTM D790
205	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber materials	Tensile strength of rubber	ASTM D412

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LOCATION 3 - B 16/1, MAHALUNGE, MIDC, CHAKAN, TAL - KHED, PUNE, MAHARASHTRA, INDIA Permanent Facility				
1	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous metals	Charpy Impact test; V notch -40 deg C to Room temp.	ISO 148-1
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous metals	Charpy Impact test; V notch -40 deg C to Room temp.	IS 1757 (Part 1)