

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
<b>Certificate Number</b>	<b>T-1533</b>	<b>Valid Until</b>	<b>20.07.2017</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I. EMC/EMI TESTING FACILITY</b>				
<b>1.</b>	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>	<b>Radiated Emission Test</b>	IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-3 (Edition 2.1) Consol. with Amd. 1 (2011-02) IEC 61000-6-4 (Edition 2.1) Consol. with Amd. 1 (2011-02) IEC 61326-1 (Edition 2.0) (2012-07) IEC 62040-2 (Edition 2.0) (2005-10) IEC 62052-11 (Edition 1.0) (2003-02) CISPR 11 (Edition 5.0) (2009-05) CISPR 11 (Edition 5.1) Consol. with Amd. 1 (2010-05) CISPR 14-1 (Edition 5.0) (2005-11) @ CISPR 14-1 (Edition 5.1) Consol. with Amd. 1 (2009-02) @ CISPR 14-1 (Edition 5.2) Consol. with Amd. 1&2 (2011-11) CISPR 15 (Edition 8.0) (2013-05) CISPR 22 (Edition 6.0) (2008-09) CISPR 25 (Edition 3.0) (2008-03) CISPR 32 (Edition 1.0) (2012-01)	Magnetic Field 9 kHz to 30 MHz  Electric Field 9 kHz to 30 MHz at 1 m distance, 3 m distance & 10 m distance  30 MHz to 1 GHz at 1 m distance, 3 m distance & 10 m distance  1 GHz to 18 GHz at 1 m distance & 3 m distance  18 GHz to 26.5 GHz 1 m distance & 3 m distance  26.5 GHz to 40 GHz 1 m distance & 3 m distance  @ - Using absorbing clamp 30 MHz to 300 MHz

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>	Radiated Emission Test (RE)	EN 55011: 2009/Amd. 1: 2010 EN 55014-1: 2006/Amd. 2: 2011 EN 55015: 2006/Amd. 2: 2009 EN 55015: 2013 EN 55022: 2010/AC: 2011 EN 55025: 2008 EN 55103-1: 2009/Amd. 1: 2012 EN 60601-1-2: 2007/AC: 2010 EN 61000-6-3: 2007/Amd. 1: 2011 EN 61000-6-4: 2007/Amd. 1: 2011 EN 61326-1: 2013 EN 62040-2: 2006 EN 62052-11: 2003  ETSI EN 300 220-2 V2.4.1 (2012-05) ETSI EN 300 330-2 V1.5.1 (2010-02) ETSI EN 300 339 V1.1.1 (1998-06) ETSI EN 300 386 V1.5.1 (2010-10) ETSI EN 300 386 V1.6.1 (2012-09) ETSI EN 301 090 V1.1.1 (1998-09) ETSI EN 301 489-1 V1.9.2 (2011-09) ETSI EN 301 489-3 V1.4.1 (2002-08) ETSI EN 301 489-3 V1.6.1 (2013-08)	

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>		ETSI EN 301 489-17 V2.2.1 (2012-09) ETSI EN 301 908-1 V6.2.1 (2013-04) ETSI EN 300 328 v1.8.1 (2012-06) 47 CFR Ch. 1 (10-1-13 Edition) (Part 15) 47 CFR Ch. 1 (10-1-13 Edition) (Part 18) GR-1089-CORE, Issue 5, August 2009 GR-1089-CORE, Issue 6, May 2011 ITU-T K.48 (09/2006) ITU-T K.60 (02/2008) ITU-T K.60 (2008) Amd.1 (05/2009) ITU-T K.63 (02/2004) SAE J1113/1: 2013-10-01 AIS-004 (Part 1): 1999 AIS-004 (Part 3): 2009 ICES-001 Issue 4, June 2006 ICES-003 Issue 5, Aug 2012 ICES-005 Issue 3, May 2009	30 MHz to 1 GHz at 3 m distance

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
2.	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>	Conducted Emission Test	IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-3 (Edition 2.1) Consol. with Amd. 1 (2011-02) IEC 61000-6-4 (Edition 2.1) Consol. with Amd. 1 (2011-02) IEC 61326-1 (Edition 2.0) (2012-07) IEC 62040-2 (Edition 2.0) (2005-10) IEC 62052-11 (Edition 1.0) (2003-02) IEC 62053-21 (Edition 1.0) (2003-01) CISPR 11 (Edition 5.0) (2009-05) CISPR 11 (Edition 5.1) Consol. with Amd. 1 (2010-05) CISPR 14-1 (Edition 5.0) (2005-11) CISPR 14-1 (Edition 5.1) Consol. with Amd. 1 (2009-02) CISPR 14-1 (Edition 5.2) Consol. with Amd. 1 & 2 (2011-11) CISPR 15 (Edition 8.0) (2013-05) CISPR 22 (Edition 6.0) (2008-09) CISPR 25 (Edition 3.0) (2008-03) CISPR 32 (Edition 1.0) (2012-01)	50 kHz to 30 MHz 150 kHz to 150 MHz

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>		EN 55011: 2009/Amd. 1: 2010 EN 55014-1: 2006/Amd. 2: 2011 EN 55015: 2006/Amd. 2: 2009 EN 55015: 2013 EN 55022: 2010/AC: 2011 EN 55025: 2008 EN 55103-1: 2009/Amd. 1: 2012  EN 60601-1-2: 2007/AC: 2010 EN 61000-6-3: 2007/Amd. 1: 2011 EN 61000-6-4: 2007/Amd. 1: 2011 EN 61326-1: 2013 EN 62040-2: 2006 EN 62052-11: 2003 EN 62053-21: 2003  ETSI EN 300 339 V1.1.1 (1998-06) ETSI EN 300 386 V1.5.1 (2010-10) ETSI EN 300 386 V1.6.1 (2012-09)	

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>	Conducted Emission Test	ETSI EN 301 090 V1.1.1 (1998-09) ETSI EN 301 489-1 V1.9.2 (2011-09) ETSI EN 301 489-3 V1.4.1 (2002-08) ETSI EN 301 489-3 V1.6.1 (2013-08) ETSI EN 301 489-17 V2.2.1 (2012-09)  47 CFR Ch. I (10–1–Edition 13) (Part 15) 47 CFR Ch. I (10–1– Edition 13) Part 18  GR-1089-CORE, Issue 5, August 2009 GR-1089-CORE, Issue 6, May 2011  ITU-T K.48 (09/2006)  ICES-001 Issue 4, June 2006 ICES-003 Issue 5, Aug 2012 ICES-005 Issue 3, May 2009	

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3.	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>	Electrostatic Discharge Immunity Test	IEC 61000-4-2 (Edition 2.0) (2008-12) IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-1 (Edition 2.0) (2005-03) IEC 61000-6-2 (Edition 2.0) (2005-01) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61340-3-1 (Edition 2.0) (2006-12) IEC 61496-1 (Edition 3.0) (2012-04) IEC 62040-2 (Edition 2.0) (2005-10) IEC 62052-11 (Edition 1.0) (2003-02) CISPR 14-2 (Edition 1.2) Consol. with Amd. 1 & 2 (2008-07) CISPR 24 (Edition 2.0) (2010-08) CISPR20: 2006 EN 61000-4-2: 2009 EN 50121-4: 2006 EN 50130-4: 2011 EN 50370-2: 2003 EN 55014-2: 1997/Amd. 2: 2008 EN 55024: 2010 EN 55103-2: 2009 EN 60601-1-2: 2007/AC: 2010	Noiseken 2 kV to 30 kV

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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			EN 61000-6-1: 2007 EN 61000-6-2: 2005 EN 61326-1: 2013 EN 61340-3-1: 2007 EN 61496-1: 2013 EN 62040-2: 2006 EN 62052-11: 2003 ETSI EN 300 339 V1.1.1 (1998-06) ETSI EN 300 386 V1.5.1 (2010-10) ETSI EN 300 386 V1.6.1 (2012-09) ETSI EN 301 090 V1.1.1 (1998-09) ETSI EN 301 489-1 V1.9.2 (2011-09) ETSI EN 301 489-3 V1.4.1 (2002-08) ETSI EN 301 489-3 V1.6.1 (2013-08) ETSI EN 301 489-17 V2.1.1 (2009-05) GR-1089-CORE, Issue 5, August 2009 GR-1089-CORE : Issue 6, May 2011 ITU-T K.20 (11/2011) ITU-T K.21 (11/2011) ITU-T K.43 (07/2009) ITU-T K.48 (09/2006) ITU-T K.63 (02/2004) ISO 10605: 2008 ISO 10605: 2008/Amd. 1 (2014)	

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
			SAE J551/15: 2009-06 SAE J1113/13: 2011-06	
<b>4.</b>	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>	<b>RF Radiated Susceptibility Test</b>	IEC 61000-4-3 (Edition 3.2) Consol. with Amd. 1 &2 (2010-04) IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-1 (Edition 2.0) (2005-03) IEC 61000-6-2 (Edition 2.0) (2005-01) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61496-1 (Edition 3.0) (2012-04) IEC 62040-2 (Edition 2.0) (2005-10) IEC 62052-11 (Edition 1.0) (2003-02) CISPR 14-2 (Edition 1.2) Consol. with Amd. 1 &2 (2008-07) CISPR 24 (Edition 2.0) (2010-08) CISPR20: 2006 EN 61000-4-3: 2006/Amd. 2: 2010 EN 50121-4: 2006 EN 50370-2: 2003 EN 55014-2: 1997/Amd. 2: 2008 EN 55024: 2010	From 80 MHz to 18 GHz, Level: 10 V/m at 3 m  From 120 MHz to 18 GHz, Level: 100 V/m at 1m

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
			EN 55103-2: 2009	
			EN 60601-1-2: 2007/AC: 2010	
			EN 61000-6-1: 2007	
			EN 61000-6-2: 2005	
			EN 61326-1: 2013	
			EN 61496-1: 2013	
			EN 62040-2: 2006	
			EN 62052-11: 2003	
			EN 62053-21: 2003	
			ETSI EN 300 339 V1.1.1 (1998-06)	
			ETSI EN 300 386 V1.5.1 (2010-10)	
			ETSI EN 300 386 V1.6.1 (2012-09)	
			ETSI EN 301 090 V1.1.1 (1998-09)	
			ETSI EN 301 489-1 V1.9.2 (2011-09)	
			ETSI EN 301 489-3 V1.4.1 (2002-08)	
			ETSI EN 301 489-3 V1.6.1 (2013-08)	
			ETSI EN 301 489-17 V2.1.1 (2009-05)	
			GR-1089-CORE, Issue 5, August 2009	
			GR-1089-CORE : Issue 6, May 2011	
			ITU-T K.43 (07/2009)	
			ITU-T K.48 (09/2006)	
			ISO 11452-2: 2004	

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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5.	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>	Electrical fast transient (EFT) / Burst Immunity Test (EFT)	IEC 61000-4-4 (Edition 3.0) (2012-04) IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-1 (Edition 2.0) (2005-03) IEC 61000-6-2 (Edition 2.0) (2005-01) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61496-1 (Edition 3.0) (2012-04) IEC 62040-2 (Edition 2.0) (2005-10) IEC 62052-11 (Edition 1.0) (2003-02) CISPR 14-2 (Edition 1.2) Consol. with Amd. 1 &2 (2008-07) CISPR 24 (Edition 2.0) (2010-08) CISPR20: 2006 EN 61000-4-4: 2012 EN 50121-4: 2006 EN 50370-2: 2003 EN 55014-2: 1997/Amd. 2: 2008 EN 55024: 2010 EN 55103-2: 2009 EN 60601-1-2: 2007/AC: 2010 EN 61000-6-1: 2007 EN 61000-6-2: 2005 EN 61326-1: 2013	0.25 kV to 4.8 kV  Single phase: 16 A Three phase: 32 A

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			EN 61496-1: 2013	
			EN 62040-2: 2006	
			EN 62052-11: 2003	
			ETSI EN 300 339 V1.1.1 (1998-06)	
			ETSI EN 300 386 V1.5.1 (2010-10)	
			ETSI EN 300 386 V1.6.1 (2012-09)	
			ETSI EN 301 090 V1.1.1 (1998-09)	
			ETSI EN 301 489-1 V1.9.2 (2011-09)	
			ETSI EN 301 489-3 V1.4.1 (2002-08)	
			ETSI EN 301 489-3 V1.6.1 (2013-08)	
			ETSI EN 301 489-17 V2.1.1 (2009-05)	
			GR-1089-CORE, Issue 5, August 2009	
			GR-1089-CORE : Issue 6, May 2011	
			ITU-T K.43 (07/2009)	
			ITU-T K.48 (09/2006)	
			ITU-T K.63 (02/2004)	

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**Accreditation Standard** ISO/IEC 17025: 2005

**Discipline** Electronics Testing **Issue Date** 21.07.2015

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
6.	IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products	High Energy / Telecom Surge Immunity Test	IEC 61000-4-5 (Edition 3.0) (2014-05) IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-1 (Edition 2.0) (2005-03) IEC 61000-6-2 (Edition 2.0) (2005-01) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61496-1 (Edition 3.0) (2012-04) IEC 62040-2 (Edition 2.0) (2005-10) IEC 62052-11 (Edition 1.0) (2003-02)  CISPR 14-2 (Edition 1.2) Consol. with Amd. 1 &2 (2008-07) CISPR 24 (Edition 2.0) (2010-08)  EN 61000-4-5: 2006 EN 61000-4-5: 2014 EN 50121-4: 2006 EN 50370-2: 2003 EN 55014-2: 1997/Amd. 2: 2008 EN 55024: 2010 EN 55103-2: 2009 EN 60601-1-2: 2007/AC: 2010 EN 61000-6-1: 2007	0.25 kV to 6.0 kV  Single phase: 16 A Three phase: 32 A

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
<b>Certificate Number</b>	<b>T-1533</b>	<b>Valid Until</b>	<b>20.07.2017</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
			EN 61000-6-2: 2005	
			EN 61326-1: 2013	
			EN 61496-1: 2013	
			EN 62040-2: 2006	
			EN 62052-11: 2003	
			ETSI EN 300 339 V1.1.1 (1998-06)	
			ETSI EN 300 386 V1.5.1 (2010-10)	
			ETSI EN 300 386 V1.6.1 (2012-09)	
			ETSI EN 301 090 V1.1.1 (1998-09)	
			ETSI EN 301 489-1 V1.9.2 (2011-09)	
			ETSI EN 301 489-3 V1.4.1 (2002-08)	
			ETSI EN 301 489-3 V1.6.1 (2013-08)	
			ETSI EN 301 489-17 V2.1.1 (2009-05)	
			ITU-T K.20 (11/2011)	
			ITU-T K.43 (07/2009)	
			ITU-T K.44 (05/2012)	
			ITU-T K.44 (2012) Cor. 1 (03/2013)	
			ITU-T K.45 (11/2011)	
			ITU-T K.48 (09/2006)	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
<b>Certificate Number</b>	<b>T-1533</b>	<b>Valid Until</b>	<b>20.07.2017</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
7.	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>	Telecom (1 <sup>st</sup> & 2 <sup>nd</sup> level lightning surge and AC power fault) E 506 4W  E 508  E 508-12P  E 518  E 505A Surge network  E 4554A CDN	GR-1089-CORE, Issue 5, August 2009 GR-1089-CORE : Issue 6, May 2011       GR-1089-CORE, Issue 5, August 2009 GR-1089-CORE : Issue 6, May 2011	2/10 $\mu$ s Range: 0 to ( $\pm$ )5 kV, 100 A and 500 A  10/360 $\mu$ s Range: 0 to ( $\pm$ )1000 V, 100 A  10/360 $\mu$ s Voltage Range: 0 to ( $\pm$ )1000 V, 25 A  10/1000 $\mu$ s Range: 0 to ( $\pm$ )1000 V ,100 A; 0 to ( $\pm$ )2000 V, 200 A  2/10 $\mu$ s Range: 0 V to ( $\pm$ )2500 V, 1000 A; 2/160 $\mu$ s Range: 0 V to ( $\pm$ )1500 V, 200A; 10/560 $\mu$ s Range: 0 V to ( $\pm$ )800V, 100A  AC I/P: 240/415V; DC I/P: 20A up to 110V, 7A up to 220V

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
8.	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>	Conducted RF Susceptibility Test	IEC 61000-4-6 (Edition 4.0) (2013-10) IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-1 (Edition 2.0) (2005-03) IEC 61000-6-2 (Edition 2.0) (2005-01) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61496-1 (Edition 3.0) (2012-04) IEC 62040-2 (Edition 2.0) (2005-10) IEC 62052-11 (Edition 1.0) (2003-02) IEC 62053-21 (Edition 1.0) (2003-01) CISPR 14-2 (Edition 1.2) Consol. with Amd. 1 & 2 (2008-07) CISPR 24 (Edition 2.0) (2010-08) CISPR20: 2006 EN 61000-4-6: 2009 EN 61000-4-6: 2014 EN 50121-4 : 2006 EN 50370-2 : 2003 EN 55014-2 : 1997/Amd. 2: 2008 EN 55024: 2010 EN 55103-2: 2009	CDN: From 150 kHz to 230 MHz Level: 10 Vrms BCI: From 10 kHz to 400 MHz, Level: 10 Vrms BCI: From 10 kHz to 150 kHz: Level 60 mA From 150 kHz to 400 MHz: Level 100 mA.

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
<b>Certificate Number</b>	<b>T-1533</b>	<b>Valid Until</b>	<b>20.07.2017</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
			EN 60601-1-2: 2007/AC: 2010	
			EN 61000-6-1: 2007	
			EN 61000-6-2: 2005	
			EN 61326-1: 2013	
			EN 61496-1: 2013	
			EN 62040-2: 2006	
			EN 62052-11: 2003	
			EN 62053-21: 2003	
			ETSI EN 300 339 V1.1.1 (1998-06)	
			ETSI EN 300 386 V1.5.1 (2010-10)	
			ETSI EN 300 386 V1.6.1 (2012-09)	
			ETSI EN 301 090 V1.1.1 (1998-09)	
			ETSI EN 301 489-1 V1.9.2 (2011-09)	
			ETSI EN 301 489-3 V1.4.1 (2002-08)	
			ETSI EN 301 489-3 V1.6.1 (2013-08)	
			ETSI EN 301 489-17 V2.1.1 (2009-05)	
			GR-1089-CORE, Issue 5, August 2009	
			GR-1089-CORE : Issue 6, May 2011	
			ISO 11452-4: 2011	
			ITU-T K.43 (07/2009)	
			ITU-T K.48 (09/2006)	
			SAE J1113/4: (2014-04)	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
9.	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>	Power Frequency Magnetic field Immunity test	IEC 61000-4-8 (Edition 2.0) (2009-09) IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-1 (Edition 2.0) (2005-03) IEC 61000-6-2 (Edition 2.0) (2005-01) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61496-1 (Edition 3.0) (2012-04) IEC 62040-2 (Edition 2.0) (2005-10) IEC 62052-11 (Edition 1.0) (2003-02) CISPR 24 (Edition 2.0) (2010-08) EN 61000-4-8: 2010 EN 50370-2: 2003 EN 55024: 2010 EN 60601-1-2: 2007/AC: 2010 EN 61000-6-1: 2007 EN 61000-6-2: 2005 EN 61326-1: 2013 EN 61496-1: 2013 EN 62040-2: 2006 EN 62052-11: 2003  ETSI EN 300 339 V1.1.1 (1998-06) ETSI EN 300 386 V1.5.1	1 A/m to 100 A/m 50 Hz /60 Hz Continuous field

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
<b>Certificate Number</b>	<b>T-1533</b>	<b>Valid Until</b>	<b>20.07.2017</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
			(2010-10) ETSI EN 300 386 V1.6.1 (2012-09) ETSI EN 301 090 V1.1.1 (1998-09) ETSI EN 301 489-1 V1.9.2 (2011-09) ETSI EN 301 489-3 V1.4.1 (2002-08) ETSI EN 301 489-3 V1.6.1 (2013-08) ETSI EN 301 489-17 V2.1.1 (2009-05)	
		Pulse Magnetic field Immunity test	IEC 61000-4-9 (Edition 1.1 Consol. with Amd. 1 (2001-03) EN 61000-4-9: 1994 EN 50121-4: 2006	100 A/m to 1000 A/m
		Impulse Immunity	IEC 60060-1 (Edition 3.0) (2010-09) IEC 62052-11 (Edition 1.0) (2003-02) IEC 60255-27 (Edition 2.0) (2013-10) EN 60060-1: 2010 EN 62052-11: 2003	Upto ( $\pm$ )15 kV, With 0.5 J

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
<b>Certificate Number</b>	<b>T-1533</b>	<b>Valid Until</b>	<b>20.07.2017</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>10.</b>	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>	<b>Voltage dips &amp; interrupts Immunity Test</b>	<b>IEC 61000-4-11 (Edition 2.0) (2004-03) IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-1 (Edition 2.0) (2005-03) IEC 61000-6-2 (Edition 2.0) (2005-01) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61496-1 (Edition 3.0) (2012-04) IEC 62040-2 (Edition 2.0) (2005-10) IEC 62052-11 (Edition 1.0) (2003-02) CISPR 14-2 (Edition 1.2) Consol. with Amd. 1 &amp;2 (2008-07) CISPR 24 (Edition 2.0) (2010-08) EN 61000-4-11: 2004 EN 50370-2: 2003 EN 55014-2: 1997/Amd. 2: 2008 EN 55024: 2010 EN 55103-2: 2009 EN 60601-1-2: 2007/AC: 2010 EN 61000-6-1: 2007 EN 61000-6-2: 2005 EN 61326-1: 2013 EN 61496-1: 2013 EN 62040-2: 2006</b>	<b>Single phase: 16 A per phase  Three phase: 32 A per phase  Frequency: 50/60 Hz  Programmable from Upto 100 %</b>

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
<b>Certificate Number</b>	<b>T-1533</b>	<b>Valid Until</b>	<b>20.07.2017</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>	Pulse Magnetic field Immunity test	IEC 61000-4-9 (Edition 1.1) Consol. with Amd. 1 (2001-03) EN 61000-4-9:1994 EN 50121-4: 2006	100 A/m to 1000 A/m
		Impulse Immunity	IEC 60060-1 (Edition 3.0) (2010-09) IEC 62052-11 (Edition 1.0) (2003-02) IEC 60255-27 (Edition 2.0) (2013-10) EN 60060-1: 2010 EN 62052-11: 2003	Upto (±)15 kV, With 0.5 J
		Voltage dips & interrupts Immunity Test	IEC 61000-4-11 (Edition 2.0) (2004-03) IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-6-1 (Edition 2.0) (2005-03) IEC 61000-6-2 (Edition 2.0) (2005-01) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61496-1 (Edition 3.0) (2012-04) IEC 62040-2 (Edition 2.0) (2005-10) IEC 62052-11 (Edition 1.0) (2003-02)	Single phase: 16A per phase  Three phase: 32A per phase  Frequency: 50/60 Hz  Programmable from 0 to 100 %

**Laboratory** Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka

**Accreditation Standard** ISO/IEC 17025: 2005

**Discipline** Electronics Testing **Issue Date** 21.07.2015

**Certificate Number** T-1533 **Valid Until** 20.07.2017

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CISPR 14-2 (Edition 1.2)  
 Consol. with Amd. 1 &2  
 (2008-07) CISPR 24 (Edition  
 2.0) (2010-08)  
 EN 61000-4-11: 2004  
 EN 50370-2: 2003  
 EN 55014-2: 1997/Amd. 2: 2008  
 EN 55024: 2010  
 EN 55103-2: 2009  
 EN 60601-1-2: 2007/AC: 2010  
 EN 61000-6-1: 2007  
 EN 61000-6-2: 2005  
 EN 61326-1: 2013  
 EN 61496-1: 2013  
 EN 62040-2: 2006

Voltage dips & interrupts  
 Immunity Test

ETSI EN 300 339 V1.1.1  
 (1998-06)  
 ETSI EN 300 386 V1.5.1  
 (2010-10)  
 ETSI EN 300 386 V1.6.1  
 (2012-09)  
 ETSI EN 301 090 V1.1.1  
 (1998-09)  
 ETSI EN 301 489-1 V1.9.2  
 (2011-09)  
 ETSI EN 301 489-3 V1.4.1  
 (2002-08)  
 ETSI EN 301 489-3 V1.6.1  
 (2013-08)  
 ETSI EN 301 489-17 V2.1.1  
 (2009-05)  
 ITU-T K.43 (07/2009)  
 ITU-T K.48 (09/2006)

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
11.	<b>IT Products / Domestic / Industrial Automation / Scientific / Medical / Aerospace / Automotive / Defense / Telecom / Consumer / Household / Machinery / Test and Measurement / Laboratory / Locomotive / RF Products / Wireless Products</b>	Harmonic Current emission	IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-3-2 (Edition 4.0) (2014-05) IEC 61000-3-12 (Edition 2.0) (2011-05) IEC 61000-6-3 (Edition 2.1 Consol. with Amd. 1 (2011-02) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61496-1 (Edition 3.0) (2012-04) IEC 62040-2 (Edition 2.0) (2005-10)  EN 60601-1-2: 2007/AC: 2010 EN 61000-3-2: 2006 A2: 2009 EN 61000-3-2: 2014 EN 61000-3-12: 2011 EN 61000-6-3: 2007 A1: 2011 EN 61326-1: 2013 EN 61496-1: 2013 EN 62040-2: 2006  ETSI EN 300 386 V1.5.1 (2010-10) ETSI EN 300 386 V1.6.1 (2012-09) ETSI EN 301 489-1 V1.9.2 (2011-09) ETSI EN 301 489-3 V1.4.1 (2002-08)	Upto 40 <sup>th</sup> Harmonic  Single phase: 16 A  Three Phase: 32 A  Frequency 50 Hz / 60 Hz

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
<b>Certificate Number</b>	<b>T-1533</b>	<b>Valid Until</b>	<b>20.07.2017</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
		Flicker	ETSI EN 301 489-3 V1.6.1 (2013-08) ETSI EN 301 489-17 V2.1.1 (2009-05)  ITU-T K.48 (09/2006)  IEC 60601-1-2 (Edition 3.0) (2007-03) IEC 60601-1-2 (Edition 4.0) (2014-02) IEC 61000-3-3 (Edition 3.0) (2013-05) IEC 61000-3-11 (Edition 1.0) (2000-08) IEC 61000-6-3 (Edition 2.1 Consol. with Amd. 1 (2011-02) IEC 61326-1 (Edition 2.0) (2012-07) IEC 61496-1 (Edition 3.0) (2012-04) IEC 62040-2 (Edition 2.0) (2005-10)  EN 60601-1-2: 2007/AC: 2010 EN 61000-3-3: 2008 EN 61000-3-3: 2013 EN 61000-3-11:2001 EN 61000-6-3: 2007 A1: 2011 EN 61326-1: 2013 EN 61496-1: 2013 EN 62040-2: 2006  ETSI EN 300 386 V1.5.1	Line to Neutral Voltage : 220 V to 250 V  Single phase:16 A  Three Phase: 32 A  Frequency 50 Hz

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
			(2010-10) ETSI EN 300 386 V1.6.1 (2012-09) ETSI EN 301 489-1 V1.9.2 (2011-09) ETSI EN 301 489-3 V1.4.1 (2002-08) ETSI EN 301 489-3 V1.6.1 (2013-08) ETSI EN 301 489-17 V2.1.1 (2009-05) ITU-T K.48 (09/2006)	
<b>12.</b>	<b>Aerospace Products</b>	Power Input	DO-160E, DO-160F, DO-160G (Section 16)	Qualitative
		Voltage Spike	DO-160E, DO-160F, DO-160G (Section 17)	Category A 600 V Category B 2 x Line Voltage (AC RMS or DC or 200 V whichever is less)
		Audio Frequency Conducted Susceptibility – Power inputs	DO-160E, DO-160F, DO-160G (Section 18)	For 28 V DC (category R, Z) 10 Hz: 0.6 Vpp 200 Hz: 0.6 Vpp 200 Hz: 1.6 Vpp 1 kHz: 1.6 Vpp 1 kHz: 4 Vpp 15 kHz: 4 Vpp 15 kHz: 0.6 Vpp 150 kHz: 0.004 Vpp For 14 V DC

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
				All above mention Edition voltages become half For 28 V DC (category B) 200Hz: 1.6 Vpp 1 kHz: 1.6 Vpp 1 kHz: 4 Vpp 15 kHz: 4 Vpp For 14 V DC All above mention Edition voltages become half
		Induced Signal Susceptibility	DO-160E, DO-160F, DO-160G (Section 19)	Voltages Upto 1000 V, spikes repetition frequency up to 250 kHz, burst duration 250 us
		Radio Frequency Susceptibility (Radiated & Conducted )	DO-160E, DO-160F, DO-160G (Section 20)	Category CC, CN, CW, ZC, ZN, ZW, AC, AN, AW, BC, BN & BW Radiat (Edition Susceptibility From 100 MHz to 18 GHz Category S, T, W Conducted Susceptibility BCI: 10 kHz to 400 MHz Category M, R, S, T

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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Aerospace Products</b>	Emission of Radio Frequency Energy	DO-160E, DO-160F, DO-160G (Section 21)	150 kHz to 152 MHz Category B, L, M, H, P & Q 100 MHz to 6000 MHz Category B, L, M, H, P & Q
		Electrostatic Discharge	DO-160E, DO-160F, DO-160G (Section 25)	Category A 30 kV Air Discharge Category A
		Lightning induced transient susceptibility	DO-160E, DO-160F, DO-160G (Section 22)	Pin Injection Voc/Isc (3/3) – 3200 V/128 A Voc/Isc (4/1) – 1600 V/320 A Voc/Isc (5 A/5 A) – 1600 V/1600 A Cable bundle single & multiple stroke test V <sub>L</sub> /I <sub>T</sub> (2/1) – 1600 V/3200 A V <sub>T</sub> /I <sub>L</sub> (2/1) – 1600 V/3200 A V <sub>T</sub> /I <sub>L</sub> (3/3) – 3200 V/640 A V <sub>T</sub> /I <sub>L</sub> (4/1) – 1600 V/3200 A V <sub>L</sub> /I <sub>T</sub> (4/5A) – 1600 V/5000 A Cable bundle multiple burst test V <sub>T</sub> /I <sub>L</sub> (3) – 1920 V/32 A V <sub>L</sub> /I <sub>T</sub> (6) – 3200 V/160 A

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Aerospace Products</b>	Lightning induced transient susceptibility	DO-160E, DO-160F, DO-160G (Section 22)	WF1:6.4/69 us WF2:100 ns/6.4 us WF3:1 MHz & 100 kHz WF4:6.4/69 us WF5A:40/120 us WF5B:50/500 us
<b>13.</b>	<b>Military Products</b>	Radiated Emission		
		RE01	MIL-STD-461C	30 Hz to 50 kHz at 7 cm distance
		RE101	MIL-STD-461E, MIL-STD-461F	30Hz to 100KHz at 7cm distance
		RE02	MIL-STD-461C	14 kHz to 30 MHz at 1 m distance 30 MHz to 200 MHz at 1 m distance 200 MHz to 1 GHz at 1 m distance 1 GHz to 18 GHz at 1 m distance 10 kHz to 30 MHz at 1 m distance
		RE102	MIL-STD-461E, MIL-STD-461F	30 MHz to 200 MHz at 1 m distance 200 MHz to 1 GHz at 1 m distance 1 GHz to 18 GHz at 1 m distance

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**Discipline** Electronics Testing **Issue Date** 21.07.2015

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Military Products</b>	Conducted Emission		
		CE01	MIL-STD-461C	30 Hz to 15 kHz
		CE03	MIL-STD-461C	15 kHz to 50 MHz
		CE101	MIL-STD-461E, MIL-STD-461F	30 Hz to 10 kHz
		CE102	MIL-STD-461E, MIL-STD-461F	10 kHz to 10MHz
		Conducted Susceptibility		
		CS01	MIL-STD-461C	30 Hz to 50 kHz
		CS101	MIL-STD-461E, MIL-STD-461F	30 Hz to 150 kHz
		CS114	MIL-STD-461E, MIL-STD-461F#	10 kHz to 200 MHz # Not below 10 kHz
		CS115	MIL-STD-461E, MIL-STD-461F	Bulk cable injection, impulse excitation 5 A limit
		CS116	MIL-STD-461E, MIL-STD-461F	10 kHz, 100 kHz, 1 MHz, 10 MHz, 30 MHz, 100 MHz

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Military Products</b>	Radiated Susceptibility		
		RS01	MIL-STD-461C	30 Hz to 100 kHz
		RS03	MIL-STD-461C	80 MHz to 18 GHz, Upto 50 V/m Class A1, A2, A3, A5, B Class A4 – Below Decks only
		RS101	MIL-STD-461E, MIL-STD-461F	30 Hz to 100 kHz
		RS103	MIL-STD-461E, MIL-STD-461F	80 MHz to 18 GHz for Ships (Metallic)(Below Decks), Ships (Nonmetallic)(Below Decks), Submarines (Internal) & Ground Space
<b>II.</b>	<b>SAFTEY TESTING FACILITY</b>			
<b>1.</b>	<b>IT/ Telecom Equipments</b>	Leakage Current	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 5.1 IS 13252-1: 2010 Clause. 5.1	Upto 10 mA
	<b>Medical Equipments</b>		IEC/EN 60601-1 2005 Amd. 1: 2012 Clause. 8.7	
	<b>House Hold and Similar Electrical Appliances</b>		IEC/EN 60335-1: 2004 (Clause. 13.0) IEC/EN 60335-1: 2010 Amd. 1: 2013 Clause. 13.0 IS 302-1: 2008	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Appliances for Skin and Health Care</b>		IEC/EN 60335-2-23: 2012 Clause. 13.0	
	<b>Appliances for Refrigerating Appliances &amp; Ice cream Appliances, Ice Makers</b>		IEC/EN 60335-2-24: 2012 Clause. 13.0	
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014 Clause. 13.0 IS 302-2-25: 1994 Clause. 13.0	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26: 2008 Clause. 13.0 IS 302-2-26: 1994 Clause. 13.0	
	<b>UPS</b>		IEC/EN 62040-1 2008 Amd. 1: 2013 Clause. 4.7.13 & 8.1	
	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 Clause. 18.0 IEC/EN 61558-2-4: 2009 Clause. 18.0 IEC/EN 61558-2-6: 2009 Clause. 18.0	1 & 3 Phase Voltage: Upto 500 V Frequency: Upto 100 Hz Output: Upto 10 kVA

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
2.	<b>IT / Telecom Equipments</b>	Electric/ Dielectric Strength	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 5.2 IS 13252-1: 2010 Clause. 5.2	Upto 10 kV (AC & DC)
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 8.8.3	
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 10.3 IS 616: 2010 Clause. 10.3	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 6.8	
	<b>House Hold and Similar Electrical Appliances</b>		IEC/EN 60335-1: 2004 ; Clause. 16.0 IEC/EN 60335-1: 2010 Amd. 1: 2013 Clause. 16.0 IS 302-1: 2008 Clause. 16.0	
	<b>Appliances for Skin and Health Care</b>		IEC/EN 60335-2-23: 2012 Clause. 16.0	

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Appliances for Refrigerating Appliances &amp; Ice-cream Appliances, Icemakers</b>		IEC/EN 60335-2-24: 2012 Clause. 16.0	
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014; Clause. 16.0 IS 302-2-25: 1994; Clause. 16.0	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26: 2008 Clause. 16.0 IS 302-2-26: 1994 Clause. 16.0	
	<b>UPS</b>		IEC/EN 62040-1: 2008 A1: 2013 Clause. 8.2	
	<b>Electrical Equipment of Machines</b>		IEC/EN 60204-1: 2008 Clause. 18.4	
	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 Clause. 18.0 IEC/EN 61558-2-4: 2009 Clause. 18.0 IEC/EN 61558-2-6: 2009 Clause. 18.0	Upto 500 V Upo 100 Hz Upto 10 kVA
	<b>Lamp Control Gear</b>		IEC/EN 61347-1: 2007 Amd. 1: 2010 Amd. 2: 2012 Clause. 12.0 IEC/EN 61347-2-9: 2012 Clause. 12.0	

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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
3.	<b>Audio Video Similar Electronics Apparatus</b>	Insulation Resistance	IEC/EN 60065: 2014 Clause. 10.3 IS 616: 2010 Clause. 10.3	Upto 2000 MΩ Upto 1 kV
	<b>Electrical Equipment of Machines</b>		IEC/EN 60204-1: 2008 Clause. 18.3	
	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 Clause. 18.0 IEC/EN 61558-2-4: 2009 Clause. 18.0 IEC/EN 61558-2-6: 2009 Clause. 18.0	Upto 500 V Upto 100 Hz Upto 10 kVA
	<b>Lamp Control Gear</b>		IEC/EN 61347-1: 2007 Amd. 1: 2010 Amd. 2: 2012 Clause. 11.0 IEC/EN 61347-2-9: 2012 Clause. 11.0	
4.	<b>IT / Telecom Equipments</b>	Earth Bond Test	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 2.6.3.4. IS 13252-1: 2010 Clause. 2.6.3.4	Test voltage: 6 V AC Test current: 6-60A
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 8.6.4	
	<b>Electrical Equipment for Measurement Control and Laboratory usage</b>		IEC/EN 61010-1: 2010 Clause. 6.5.2.3	

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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 15.2 IS 616: 2010 Clause. 15.2	
	<b>House Hold and Similar Electrical Appliances</b>		IEC/EN 60335-1: 2004 Clause. 27.0 IEC/EN 60335-1: 2010 Amd. 1: 2013 Clause. 27.0 IS 302-1: 2008 Clause. 27.0	
	<b>Appliances for Skin and Health Care</b>		IEC/EN 60335-2-23: 2012 Clause. 27.0	
	<b>Appliances for Refrigerating Appliances &amp; Ice-Cream appliances, Icemakers</b>		IEC/EN 60335-2-24: 2012 Clause. 27.0	
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014 Clause. 27.0 IS302-2-25: 1994 Clause. 27.0	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26: 2008 Clause. 27.0 IS 302-2-26: 1994 Clause. 27.0	

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	<b>UPS</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 5.3.1	1 & 3 Phase Voltage:
	<b>Electrical Equipment of Machines</b>		IEC/EN 60204-1: 2008 Clause. 8.2	
	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 Clause. 24.0 IEC/EN 61558-2-4: 2009 Clause. 24.0 IEC/EN 61558-2-6: 2009 Clause. 24.0	Upto 500 V Upto 100 Hz Upto 10 kVA
	<b>Lamp Control Gear</b>		IEC/EN 61347-1: 2007 Amd. 1: 2010 Amd. 2: 2012 Clause. 9.0 IEC/EN 61347-2-9: 2012 Clause. 9.0	Test voltage: 6 V AC Test current:6-60A
<b>5.</b>	<b>IT / Telecom Equipments</b>	<b>Input Current/ Power Test</b>	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 1.6.2 IS 13252-1: 2010 Clause. 1.6.2	Upto 20 A, 300 V AC, 1khz (max) Upto 32 A, 440 V 3 Phase 10 kW
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 4.1	
	<b>Electrical Equipment for Measurement Control and Laboratory usage</b>		IEC/EN 61010-1: 2010 Clause. 5.1.3	

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	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 4.2.1 IS 616: 2010 Clause. 4.2.1	
	<b>House Hold and Similar Electrical Appliances</b>		IEC/EN 60335-1: 2004 Clause. 10.0 IEC/EN 60335-1: 2010 Amd. 1: 2013 Clause. 10.0 IS 302-1: 2008 Clause. 10.0	
	<b>Appliances for Skin and Health Care</b>		IEC/EN 60335-2-23: 2012 Clause. 10.0	
	<b>Appliances for Refrigerating Appliances&amp;Ice Creamappliances, Icemakers</b>		IEC/EN 60335-2-24: 2012 Clause. 10.0	
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014 Clause. 10.0 IS 302-2-25: 1994 Clause. 10.0	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26: 2008 Clause. 10.0 IS 302-2-26: 1994 Clause. 10.0	
	<b>UPS</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 4.6	

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	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 Clause. 11.0 IEC/EN 61558-2-4: 2009 Clause. 11.0 IEC/EN 61558-2-6: 2009 Clause. 11.0	1 & 3 Phase Upto 500 V Frequency: Upto 100 Hz Output: Upto 10 kVA
<b>6.</b>	<b>IT / Telecom Equipments</b>	Heating/ Temperature	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 4.5 IS 13252-1: 2010 Clause. 4.5	30 Channels 0 to (+) 300 °C (±) 0.15 % (+) 0.15 °C
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 11.0	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 10.4.2	
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 7.1 IS 616: 2010 Clause. 7.1	
	<b>House Hold and Similar Electrical Appliances</b>		IEC/EN 60335-1: 2004 Clause. 11.0 IEC/EN 60335-1: 2010 Amd. 1: 2013 Clause. 11.0 IS 302-1: 2008 Clause. 11.0	

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Appliances for Skin and Health Care</b>		IEC/EN 60335-2-23: 2012 Clause. 11.0	
	<b>Appliances for Refrigerating Appliances &amp; Ice Cream appliances, Icemakers</b>		IEC/EN 60335-2-24: 2012 Clause. 11.0	
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014 Clause. 11.0 IS 302-2-25: 1994 Clause. 11.0	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26: 2008 Clause. 11.0 IS 302-2-26: 1994 Clause. 11.0	
	<b>UPS</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 7.7 & 7.4.1	
	<b>Electrical Equipment of Machines</b>		IEC/EN 60204-1: 2008 Clause. 7.3.3 IEC/EN 61558-1: 2009 Clause. 14.0 IEC/EN 61558-2-4: 2009 Clause. 11.0 IEC/EN 61558-2-6: 2009 Clause. 11.0	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Power Transformers</b>			1 & 3 Phase Voltage: Upto 500 V Upto 100 Hz Upto 10 kVA
	<b>Lamp Control Gear</b>		IEC/EN61347-1: 2007 Amd. 1: 2010 Amd. 2: 2012 Clause. 13.0 IEC/EN 61347-2-9: 2012 Clause. 13.0	30 Channels 0 to (+) 300 °C (±) 0.15 % (+) 0.15 °C
7.	<b>Audio Video Similar Electronics Apparatus</b>	Impact Hammer	IEC/EN 60065: 2014 Clause. 12.1.3 IS 616: 2010 Clause. 12.1.3	Qualitative (0.2 Nm to 1 Nm)
	<b>House Hold and Similar Electrical Appliances</b>		IEC/EN 60335-1: 2004 Clause. 21.1) IEC/EN 60335-1 2010 Amd. 1: 2013 Clause. 21.1 IS 302-1: 2008 Clause. 21.4	
	<b>Appliances for Skin and Health Care</b>		IEC/EN 60335-2-23: 2012 Clause. 21.4	
	<b>Appliances for Refrigerating Appliances&amp; Ice Cream Appliances, Icemakers</b>		IEC/EN 60335-2-24: 2012 Clause. 21.4	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014 Clause. 21.4 IS 302-2-25: 1994 Clause. 21.4	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26: 2008 Clause. 21.4 IS 302-2-26: 1994 Clause. 21.4	
	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 Clause. 16.0 IEC/EN 61558-2-4: 2009 Clause. 16.0 IEC/EN 61558-2-6: 2009 Clause. 16.0	
<b>8.</b>	<b>IT /Telecom Equipments</b>	Ball Pressure	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 4.5.5 IS 13252-1: 2010 Clause. 4.5.5	Ball diameter: 5mm, Weight: 20 N Upto 300 °C
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 8.8.4.1	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 10.5.3	
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 12.1.3 IS 616: 2010 Clause. 12.1.3	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>House Hold and Similar Electrical Appliances</b>		IEC/EN 60335-1: 2004 Clause. 30.0 IEC/EN 60335-1: 2010 Amd. 1: 2013 Clause. 30.0 IS 302-1: 2008 Clause. 30.0	
	<b>Appliances for Skin and Health Care</b>		IEC/EN 60335-2-23: 2012 Clause. 30.0	
	<b>Appliances for Refrigerating Appliances&amp; Ice Cream Appliances, Icemakers</b>		IEC/EN 60335-2-24: 2012 Clause. 30.0	
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014 Clause. 30.0 IS 302-2-25: 1994 Clause. 30.0	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26: 2008 Clause. 30.0 IS 302-2-26: 1994 Clause. 30.0	
	<b>UPS</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 7.4.1	
	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 Clause. 27.0 IEC/EN 61558-2-4: 2009 Clause. 27.0 IEC/EN 61558-2-6: 2009 Clause. 27.0	1 & 3 Phase Voltage: Upto 500 V Upto 100 Hz Upto 10 kVA

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
9.	<b>IT/ Telecom Equipments</b>	Steady Force	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 4.2.2 to 4.2.4 IS 13252-1: 2010 Clause. 4.2.2 to 4.2.4	Force: 10 N to 250 N
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 15.3.2	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 8.2.1	
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 19.2 IS 616: 2010 Clause. 19.2	
	<b>House Hold and Similar Electrical Appliances</b>		IEC/EN 60335-1 : 2004 Clause. 20.11 to 20.12 IEC/EN 60335-1 2010 Amd. 1: 2013 Clause. 20.11 to 20.12 IS 302-1: 2008 Clause. 20.11 to 20.12	
	<b>Appliances for Skin and Health Care</b>		IEC/EN 60335-2-23: 2012 Clause. 20.11 to 20.12	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Appliances for Refrigerating Appliances &amp; Icecream Appliances, Icemakers</b>		IEC/EN 60335-2-24: 2012 Clause. 20.11 to 20.12	
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014 Clause. 20.11 to 20.12 IS 302-2-25: 1994 Clause. 20.11 to 20.12	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26 : 2008 Clause. 20.11 to 20.12 IS 302-2-26: 1994 Clause. 20.11 to 20.12	
	<b>UPS</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 7.3	
<b>10.</b>	<b>IT / Telecom Equipments</b>	Drop Test	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 4.2.6 IS 13252-1: 2010 Clause. 4.2.6	600 mm X 600 mm hard wood
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 15.3.4.1	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 8.3	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 12.1.4 IS 616: 2010 Clause. 12.1.4	
<b>11.</b>	<b>IT/ Telecom Equipments</b>	<b>Inclined Plane Test</b>	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 4.1 IS 13252-1: 2010 Clause. 4.1	Platform: 900 mm x 900 mm, Tilt Angle: 0 to 30 deg
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 8.4.2	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 7.4a	
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 19.1 IS 616: 2010 Clause. 19.1	
	<b>House Hold and Similar Electrical Appliances</b>		IEC/EN 60335-1: 2004 Clause. 20.0 IEC/EN 60335-1: 2010 Amd. 1: 2013 Clause. 20.0 IS 302-1: 2008 Clause. 20.0	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Appliances for Refrigerating Appliances &amp; Ice Cream Appliances, Icemakers</b>		IEC/EN 60335-2-24: 2012 Clause. 20.0	
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014 Clause. 20.0 IS 302-2-25: 1994 Clause. 20.0	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26: 2008 Clause. 20.0 IS 302-2-26: 1994 Clause. 20.0	
	<b>UPS</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 7.2	
<b>12.</b>	<b>It / Telecom</b>	<b>Abnormal Operation /Fault Condition Test</b>	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 5.3 IS 13252-1: 2010 Clause. 5.3	30 Channels 0 to + 300 °C ± 0.15 % (+) 0.15 °C
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 13.0	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 4.4	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 11.0 IS 616: 2010 Clause. 11.0	
	<b>House Hold and Similar Electrical Appliances</b>		IEC/EN 60335-1 : 2004 Clause. 19.0 IEC/EN 60335-1 2010 Amd. 1: 2013 Clause. 19.0 IS 302-1: 2008 Clause. 19.0	
	<b>Appliances for Skin and Health Care</b>		IEC/EN 60335-2-23: 2012 Clause. 19.0	
	<b>Appliances for Refrigerating Appliances&amp; Ice Cream Appliances, Icemakers</b>		IEC/EN 60335-2-24: 2012 Clause. 19.0	
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014 Clause. 19.0 IS 302-2-25: 1994 Clause. 19.0	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26: 2008 Clause. 19.0 IS 302-2-26: 1994 Clause. 19.0	
	<b>UPS</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 8.3	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 IEC/EN 61558-2-4: 2009 IEC/EN 61558-2-6: 2009	1 & 3 Phase Voltage: Upto 500 V Frequency: Upto 100 Hz Output: Upto 10 kVA
	<b>Lamp Control Gear</b>		IEC/EN 61347-1: 2007 Amd. 1: 2010 Amd. 2: 2012 Clause. 14.0 IEC/EN 61347-2-9: 2012 Clause. 14.0	
<b>13.</b>	<b>IT/ Telecom Equipments</b>	Accessibility Test	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 2.1 IS 13252-1: 2010 Clause. 2.1	Jointed Test fingers 80 mm x 12 mm Rigid Test Finger 80 mm x12 mm Test pins 15 mm x3 mm 100 mm x 4 mm 100 mm x 3 mm Test probes 80 mm x12mm
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 5.1 & 8.4.2	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 6.2	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 9.0 IS 616: 2010 Clause. 9.0 IEC/EN 60335-1: 2004 Clause. 8.0 IEC/EN 60335-1: 2010 Amd. 1: 2013 Clause. 8.0 IS 302-1: 2008 Clause. 8.0	
	<b>Appliances for Skin and Health Care</b>		IEC/EN 60335-2-23: 2012 Clause. 8.0	Test hook 180 mm x 8mm
	<b>Appliances for Refrigerating Appliances &amp; Ice Cream Appliances, Icemakers</b>		IEC/EN 60335-2-24: 2012 Clause. 8.0	
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014 Clause. 8.0 IS 302-2-25: 1994 Clause. 8.0	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26: 2008 Clause. 8.0 IS 302-2-26: 1994 Clause. 8.0	
	<b>UPS</b>		IEC/EN 62040-1 2008 Amd. 1: 2013 Clause. 5.1&7.1	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 Clause. 9.0 IEC/EN 61558-2-4: 2009 Clause. 9.0 IEC/EN 61558-2-6: 2009 Clause. 9.0	1 & 3 Phase Voltage: Upto 500 V Upto 100 Hz Upto 10 kVA
	<b>Lamp Control Gear</b>		IEC/EN 61347-1: 2007 Amd. 1: 2010 Amd. 2: 2012 Clause. 10.0 IEC/EN 61347-2-9: 2012 Clause. 10.0	
<b>14.</b>	<b>IT/ Telecom Equipments</b>	Creepage and Clearance	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 2.10 IS 13252-1: 2010 Clause. 2.10	Slide Caliper: 0 to 300 mm Gauges: 0.6 mm to 2 mm. and 2.5mm to 10mm. DMM: Upto 1000 V dc Upto 1000 Vac / 10 A ac/dc
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 8.9	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 6.7	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 13.0 IS 616: 2010 Clause. 13.0	
	<b>House Hold and Similar Electrical Appliances</b>		IEC/EN 60335-1 : 2004 Clause. 29.0 IEC/EN 60335-1 2010 Amd. 1: 2013 Clause. 29.0 IS 302-1: 2008 Clause. 29.0	
	<b>Appliances for Skin and Health Care</b>		IEC/EN 60335-2-23: 2012 Clause. 29.0	DSO 200 MHz
	<b>Appliances for Refrigerating Appliances&amp; Ice Cream Appliances, Icemakers</b>		IEC/EN 60335-2-24: 2012 Clause. 29.0	
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014 Clause. 29.0 IS 302-2-25: 1994 Clause. 29.0	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26: 2008 Clause. 29.0 IS 302-2-26: 1994 Clause. 29.0	

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>UPS</b>		IEC/EN 62040-1 : 2008 Amd. 1: 2013 Clause. 5.7	
	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 Clause. 26.0 IEC/EN 61558-2-4: 2009 Clause. 26.0 IEC/EN 61558-2-6: 2009 Clause. 26.0	1 & 3 Phase Voltage:Upto 500 V Frequency: Upto 100 Hz Output: Upto 10 kVA
	<b>Lamp Control Gear</b>		IEC/EN 61347-1: 2007 Amd. 1: 2010 Amd. 2: 2012 Clause. 16.0 IEC/EN 61347-2-9: 2012 Clause. 16.0	
<b>15.</b>	<b>IT /Telecom Equipments</b>	<b>Steel Ball Impact Test</b>	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 4.2.5 IS 13252-1: 20102 Clause. 4.2.5	500 g Steel Ball, 50 mm dia, and 1.3 m height
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 15.3.3	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 8.2.2	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 IS 616: 2010 Clause. 12.1.3	
	<b>UPS</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 7.3	
<b>16.</b>	<b>IT /Telecom Equipments</b>	Capacitor Discharge Test	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 2.1.1.7 IS 13252-1: 2010 Clause. 2.1.1.7	Voltage across Line & Neutral, Line/Neutral to Ground Pins to decay less than 37% in 1s 200 MHz
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 8.4.3	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 6.6.2	
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 IS 616: 2010 Clause. 9.1.6	
	<b>Ups</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 5.1 & 7.1	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 Clause. 9.0 IEC/EN 61558-2-4: 2009 Clause. 9.0 IEC/EN 61558-2-6: 2009 Clause. 9.0	1 & 3 Phase Voltage: Upto 500 V Frequency: Upto 100 Hz Output:Upto 10 kVA
<b>17.</b>	<b>IT/Telecom Equipments</b>	Stability	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 4.1 IS 13252-1: 2010 Clause. 4.1	100 N and 800 N
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 8.4.2	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 7.4	
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 19.2 IS 616: 2010 Clause. 19.2	
	<b>Ups</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 7.2	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>18.</b>	<b>IT/Telecom Equipments</b>	<b>Sharp Edges and Corners</b>	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 4.3.1 IS 13252-1: 2010 Clause. 4.3.1	<b>6.7 N</b>
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 9.3	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 7.2	
	<b>UPS</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 7.4.1	
<b>19.</b>	<b>IT/Telecom Equipments</b>	<b>Push Pull Force</b>	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 2.1,4.1&4.2 IS 13252-1: 2010 Clause. 2.1,4.1&4.2	<b>10 N to 300 N</b>
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 15.3	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 6.10.2	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 8.13 to 8.15 IS 616: 2010 Clause. 8.13 to 8.15	
	<b>House Hold and Similar Electrical Appliances</b>		IEC/EN 60335-1: 2004 Clause. 20.11 to 20.12 IEC/EN 60335-1: 2010 Amd. 1: 2013 Clause. 20.11 to 20.12 IS 302-1: 2008 Clause. 20.11 to 20.12	
	<b>Appliances for Skin and Health Care</b>		IEC/EN 60335-2-23: 2012 Clause. 20.11 to 20.12	
	<b>Appliances for Refrigerating Appliances&amp; Ice Cream Appliances, Icemakers</b>		IEC/EN 60335-2-24: 2012 Clause. 20.11 to 20.12	
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014 Clause. 20.11 to 20.12 IS 302-2-25: 1994 Clause. 20.11 to 20.12	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26: 2008 Clause. 20.11 to 20.12 IS 302-2-26: 1994 Clause. 20.11 to 20.12	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>UPS</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 7.3  IEC/EN 60204-1: 2008	
	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 Clause. 16.0 IEC/EN 61558-2-4: 2009 Clause. 16.0 IEC/EN 61558-2-6: 2009 Clause. 16.0	1 & 3 Phase Voltage: Upto 500 V Frequency: Upto 100 Hz Output: Upto 10 kVA
	<b>Lamp Control Gear</b>		IEC/EN 61347-1: 2007 Amd. 1: 2010 Amd. 2: 2012 Clause. 17.0 IEC/EN 61347-2-9: 2012 Clause. 17.0	
<b>20.</b>	<b>IT/ Telecom Equipments</b>	<b>Durability&amp; Marking Test</b>	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 1.7.11 IS 13252-1: 2010 Clause. 1.7.11	Petroleum Spirit, Hexane, Isopropyl Alcohol, Ethanol 96%.
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 5.0	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 5.3	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
<b>Certificate Number</b>	<b>T-1533</b>	<b>Valid Until</b>	<b>20.07.2017</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 5.0 IS 616: 2010 Clause. 5.0	
	<b>House Hold and Similar Electrical Appliances</b>		IEC/EN 60335-1: 2004 Clause. 7.0 IEC/EN 60335-1: 2010 Amd. 1: 2013 Clause. 7.0 IS 302-1: 2008 Clause. 7.0	
	<b>Appliances for Skin and Health Care</b>		IEC/EN 60335-2-23: 2012 Clause. 7.0	
	<b>Appliances for Refrigerating Appliances &amp; Ice Cream Appliances, Icemakers</b>		IEC/EN 60335-2-24: 2012 Clause. 7.0	
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014 Clause. 7.0 IS 302-2-25: 1994 Clause. 7.0	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26: 2008 Clause. 7.0 IS 302-2-26: 1994 Clause. 7.0	
	<b>UPS</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 4.7.16	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
<b>Certificate Number</b>	<b>T-1533</b>	<b>Valid Until</b>	<b>20.07.2017</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 Clause. 8.0 IEC/EN 61558-2-4: 2009 Clause. 8.0 IEC/EN 61558-2-6: 2009 Clause. 8.0  IEC/EN 61347-1: 2007 Amd. 1: 2010 Amd. 2: 2012 Clause. 7.0 IEC/EN 61347-2: 2012 Clause. 7.0	1 & 3 Phase Voltage: Upto 500 V Frequency: Upto 100 Hz Output: Upto 10 kVA
<b>21.</b>	<b>Medical Equipments</b>	Defibrillation Protection	IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 8.5.5.1	0 to 5 kV
<b>22.</b>	<b>IT/Telecom Equipments</b>	Stress Relief Test/ Resistance To Heat	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 4.2.7 IS 13252-1: 2010 Clause. 4.2.7	Upto 300 °C
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 15.3.6	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 10.5.2	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>UPS</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 7.3	
	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 Clause. 19.0 IEC/EN 61558-2-4: 2009 Clause. 19.0 IEC/EN 61558-2-6: 2009 Clause. 19.0	1 & 3 Phase Voltage: Upto 500 V Frequency: Upto 100 Hz Output: Upto 10 kVA
<b>23.</b>	<b>IT/ Telecom Equipments</b>	<b>Cord Anchorages and Strain Relief</b>	IEC/EN 60950-1: 2005 Amd. 1: 2009 Amd. 2: 2013 Clause. 3.2.6 IS 13252-1: 2010 Clause. 3.2.6	<b>Force: 10 N to 250 N</b>
	<b>Medical Equipments</b>		IEC/EN 60601-1: 2005 Amd. 1: 2012 Clause. 8.11.3.5	
	<b>Electrical Equipment for Measurement Control and Laboratory Usage</b>		IEC/EN 61010-1: 2010 Clause. 6.10.2	
	<b>Audio Video Similar Electronics Apparatus</b>		IEC/EN 60065: 2014 Clause. 16.5 IS 616: 2010 Clause. 16.5	
	<b>House Hold and Similar Electrical Appliances</b>		IEC/EN 60335-1: 2004 Clause. 25.15 IEC/EN 60335-1: 2010 Amd. 1: 2013 Clause. 25.15 IS 302-1: 2008 Clause. 25.15	

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Appliances for Skin and Health Care</b>		IEC/EN 60335-2-23: 2012 Clause. 25.15	
	<b>Appliances for Refrigerating Appliances &amp; Ice Cream Appliances, Icemakers</b>		IEC/EN 60335-2-24: 2012 Clause. 25.15	
	<b>Microwave Ovens</b>		IEC/EN 60335-2-25: 2014 Clause. 25.15 IS 302-2-25: 1994 Clause. 25.15	
	<b>Electric Clocks</b>		IEC/EN 60335-2-26: 2008 Clause. 25.15 IS 302-2-26: 1994 Clause. 25.15	
	<b>UPS</b>		IEC/EN 62040-1: 2008 Amd. 1: 2013 Clause. 6.2	
	<b>Power Transformers</b>		IEC/EN 61558-1: 2009 Clause. 22.0 IEC/EN 61558-2-4: 2009 Clause. 22.0 IEC/EN 61558-2-6: 2009 Clause. 22.0	1 & 3 Phase Voltage: Upto 500 V Frequency: Upto 100 Hz Output: Upto 10 kVA

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
24.	It / Telecom Medical/ Electrical Equipment for Measurement Control and Laboratory Usage/Power Transformers	Resistance To Heat and Fire (Glow Wire Test)	IEC/EN 60695-2: 10 IEC/EN 60695-2: 11 IEC/EN 60695-2: 12 IEC/EN 60695-2: 13	Up to 1000 °C Upto 15 min
25.	Industrial Process/ Consumer Electronics/ Electricals/Ups/ Transformers/Power Supply Units	Resistance To Heat and Fire (Needle Flame Test)	IEC/EN 60695-11-5: 2004	Burner Dia: 0.5 ± 0.1 mm  Flame height: 12mm ± 2 mm

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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### III. ENVIRONMENTAL TEST FACILITY

1.	<b>IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Industrial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive</b>	Sine Vibration Random Vibration	IEC 60068-2-6: 2007 IEC 60068-2-64: 2008 EN ETSI 300019-1-1: 2004 EN ETSI 300019-1-2 V2.2.1 : (2014-04) EN ETSI 300019-1-2 V2.2.1 : (2014-04) EN ETSI 300019-2-1: 2000 EN ETSI 300019-2-2 V2.3.1 : (2013-04) EN ETSI 300019-2-3 V2.3.1 : (2013-04) EN ETSI 300019-2-4: 2012 NEBS GR 63 CORE ISSUE 3 : 2006 BS EN IEC 61587-1: 2011 QM 333 / Issue: March 2010 NEMA STD TS2: 2003 Version 02.06: Section II IS9000 (Part 8): 1981 (RA 2003) SAE J1455: 2012 SAE J1211: 2012 ASTM D999: 08 ASTM D3580-95: 2004 ASTM D5112: 2003 ASTM D4728: 2006 BS EN IEC 62052-11: 2003 ISTA 2A: 2011 JSS 55555, Revision. 2: 2000 MIL-STD-810G: 2008 Method. 514.6 MIL STD 202G: 2002 Method. 201A, 204D and 214A JIS D1601: 1995 MIL PRF 28800F: 1996 RTCA-DO-160G: 2010 BS EN IEC 61373: 2010	Qualitative (Frequency 5 Hz to 3000 Hz Acceleration level: {0.3g to 100 g for Frequency from 5 Hz to 3000 Hz, 0.1 g to 100 g for Frequency from 5 to 600Hz} for weight up to 3.5kg 0.3g to 6 g for weight up to 400kg. Displacement Upto 50.8mm.)
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**Accreditation Standard** ISO/IEC 17025: 2005

**Discipline** Electronics Testing **Issue Date** 21.07.2015

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Industrial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive	Mechanical Shock (Electrodynamic Shaker) Half Sine, Rectangular Trapezoidal, Final Peak Saw Tooth, Initial Saw Tooth	IEC 60068-2-27: 2008 EN ETSI 300019-1-1: 2004 EN ETSI 300019-1-2 V2.2.1 : (2014-04) EN ETSI 300019-1-3 V2.4.1: (2014-04) EN ETSI 300019-2-1: 2000 EN ETSI 300019-2-2 V2.3.1: (2013-04) EN ETSI 300019-2-3 V2.3.1: (2013-04) EN ETSI 300019-2-4: 2012 NEBS GR 63 CORE ISSUE 3: 2006BS EN IEC 61587-1: 2011 NEMA STD TS2: 2003 Version 02.06: Section II BS EN IEC 62052-11: 2003ISTA 2A: 2011 QM 333 / Issue: March 2010 SAE J1455: 2012 SAE J1211: 2012ASTM D999: 08 ASTM D3580-95: 2004 ASTM D5112: 2003 ASTM D4728: 2012 NEMA STD TS2: 2003 Version 02.06: Section II BS EN IEC 62052-11: 2003 ISTA 2A: 2011 JSS 55555, Revision. 2: 2000 MIL-STD-810G: 2008 Method. 514.6 MIL STD 202G: 2002 Method. 202D and 213B MIL PRF 28800F-1996 RTCA-DO-160G: 2010 BS EN IEC 61373: 2010	Acceleration level 150 g, 2 ms. 1 g, 50 ms

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
3.	<b>IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Industrial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive</b>	Mechanical Shock Half sine, Trapezoidal , square,	IEC 60068-2-27: 2008 EN ETSI 300019-1-1: 2004 EN ETSI 300019-1-2 V2.2.1: 2014-04, EN ETSI 300019-1-3 V2.4.1: 2014-04, EN ETSI 300019-2-1: 2000, EN ETSI 300019-2-2 V2.3.1: 2013-04 EN ETSI 300019-2-3 V2.3.1: 2013-04, EN ETSI 300019-2-4: 2012, NEBS GR 63 CORE ISSUE 3: 2006, BS EN IEC 61587-1: 2011, NEMA STD TS2: 2003 Version 02.06: Section 2, BS EN IEC 62052-11: 2003, ISTA 2A : 2011 , QM 333 / Issue: March 2010 SAE J1455: 2012 SAE J1211: 2012, ASTM D999: 2008, ASTM D3580-95: 2004 , ASTM D5112: 2003 ASTM D4728: 2006 NEMA STD TS2: 2003 Version 02.06: Section 2 BS EN IEC 62052-11: 2003 ISTA 2A : 2011 JSS 50101:1996, Revision No. 1, 2001 , JSS 55555, Revision No. 2, 2000 , MIL-STD-810G: 2008 Method 516.6 , MIL STD 202G: 2002 Method 213B and 202D MIL PRF 28800F: 1996, RTCA-DO-160G: 2010 IEC 61373: 2010	Half sine pulse range: 600g-2ms; 20g,-35 ms. Square/Trapezoidal pulse range: 75g-10ms; 10g,- 50ms.  Max specimen weight: 227kg. Table size:

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
4.	<b>IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Industrial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive</b>	Cold (Low Temperature)	IEC 60068-2-1: 2007 EN ETSI 300019-1-1: 2004 EN ETSI 300019-1-2V2.2.1 : (2014-04) EN ETSI 300019-1-3V2.4.1 : (2014-04) EN ETSI 300019-2-1: 2000 EN ETSI 300019-2-2V2.3.1 : (2013-04) EN ETSI 300019-2-3V2.3.1 : (2013-04) EN ETSI 300019-2-4: 2012 NEBS GR 63 CORE ISSUE 3: 2006 BS ISO 16750-4: 2010 BS EN IEC 61587-1: 2011 NEMA STD TS2: 2003 Version 02.06: Section II BS EN IEC 62052-11: 2003 QM 333 / Issue: March 2010 SAE J1455: 2012 JSS 55555, Revision. 2: 2000 MIL-STD-810G: 2008 Method. 502.5 RTCA-DO-160G: 2010	Part 1: Up to (-)70 °C. Maximum specimen size Upto 0.543 m <sup>3</sup>  Part 2: Walk-In Type chamber; Upto (-)65 °C Maximum specimen size Upto 7.5m <sup>3</sup>

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
5.	<b>IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Industrial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive</b>	Dry Heat (High Temperature)	IEC 60068-2-2: 2007 EN ETSI 300019-1-1: 2004 EN ETSI 300019-1-2V2.2.1 : (2014-04) EN ETSI 300019-1-3V2.4.1 : (2014-04) EN ETSI 300019-2-1: 2000 EN ETSI 300019-2-2V2.3.1 : (2013-04) EN ETSI 300019-2-3V2.3.1 : (2013-04) EN ETSI 300019-2-4: 2012 NEBS GR 63 CORE ISSUE 3 2006 BS ISO 16750-4: 2010 BS EN IEC 61587-1: 2011 BS EN IEC 62052-11: 2003 NEMA STD TS2: 2003 Version 02.06: Section II, QM 333 / Issue: March 2010 SAE J1455: 2012 JSS 55555, Revision. 2: 2000 MIL PRF 28800F: 1996 RTCA-DO-160G: 2010 MIL-STD-810G: 2008 Method. 501.5 MIL STD 202G: 2002 Method. 108A	Part 1: Upto (+)190 °C. Maximum specimen size Upto 0.543m <sup>3</sup>  Part 2: Walk-In Type chamber; Upto (+)120 °C Maximum specimen size Upto 7.5 m <sup>3</sup>

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
6.	<b>IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Industrial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive</b>	Temperature Cycling	IEC 60068-2-14: 2009 EN ETSI 300019-1-1: 2004 EN ETSI 300019-1-2V2.2.1 : (2014-04) EN ETSI 300019-1-3V2.4.1 : (2014-04) EN ETSI 300019-2-1: 2000 EN ETSI 300019-2-2V2.3.1: (2013-04) EN ETSI 300019-2-3V2.3.1: (2013-04) EN ETSI 300019-2-4: 2012 NEBS GR 63 CORE ISSUE 3 2006 BS ISO 16750-4: 2010 BS EN IEC 61587-1: 2011 BS EN IEC 62052-11: 2003 NEMA STD TS2: 2003 Version 02.06: Section II QM 333 / Issue: March 2010 SAE J1455: 2012 MIL STD 202G, Method. 107G, 2002 MIL-STD-810G: 2008, Method. 503.5 RTCA-DO-160G: 2010 MIL PRF 28800F: 1996 JSS 55555, Revision. 2, 2000 JSS 50101:1996, Revision. 1, 2001	Part 1: Upto (-)70°C (Cold) Upto 190 °C (Hot). Maximum specimen size Upto 0.543 m <sup>3</sup>  Part 2: Walk-In Type chamber; Upto (-)65°C (Cold) Upto (+)120 °C (Hot). Maximum specimen size Upto 7.5 m <sup>3</sup>

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
7.	<b>IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Industrial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive</b>	Humidity/ Damp Heat (Cyclic)/ Damp Heat (Steady State)	IEC 60068-2-30: 2005 EN ETSI 300019-1-1: 2004 EN ETSI 300019-1-2 V2.2.1: (2014-04) EN ETSI 300019-1-3 V2.4.1: (2014-04) EN ETSI 300019-2-1: 2000 EN ETSI 300019-2-2 V2.3.1: (2013-04) EN ETSI 300019-2-3 V2.3.1: (2013-04) EN ETSI 300019-2-4: 2012 NEBS GR 63 CORE ISSUE 3: 2006 BS ISO 16750-4: 2005, BS EN IEC 61587-1: 2011, BS EN IEC 62052-11: 2003 NEMA STD TS2: 2003 Version 02.06: Section II QM 333 / Issue: March 2010 IEC 60068-2-78: 2013 SAE J 1211: 2012 SAE J 1455: 2012 JSS 55555, Revision. 2: 2000 MIL PRF 28800F: 1996 RTCA-DO-160G: 2010 MIL-STD-810G: 2008; Method. 507.5 MIL STD 202G Method. 103B, 2002	Humidity Range: 5 % to 95 % RH Temperature Range: 5 °C to 85 °C Maximum specimen size Upto 7.5 m <sup>3</sup>

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
8.	<b>IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Industrial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive</b>	Composite Temperature & Humidity	IEC 60068-2-38: 2009 EN ETSI 300019-1-1: 2004 EN ETSI 300019-1-2 V2.2.1: (2014-04) EN ETSI 300019-1-3 V2.4.1: (2014-04) NEBS GR 63 CORE ISSUE 3: 2006, ISO 16750-4: 2010, NEMA STD TS2: 2003 Version 02.06: Section II QM 333 / Issue: March 2010 SAE J1455: 2012 MIL STD 202G: 2002 Method. 106G MIL PRF 28800F: 1996 RTCA-DO-160G: 2010	Humidity Range: 5 % to 95 % RH Temperature Range: 5 °C to 85 °C Maximum specimen size Upto 7.5 m <sup>3</sup>

**Laboratory** Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka

**Accreditation Standard** ISO/IEC 17025: 2005

**Discipline** Electronics Testing **Issue Date** 21.07.2015

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
9.	IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Industrial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive	HALT/HASS	Qual Mark HALT Guideline Doc 933-0336 Revision. 4: Dated 13/09/2010 Qual Mark HASS Guideline Doc 933-0384_00_ 2010	Vibration- 50 Grms max. Temp range (-)100 to (+)200 °C Thermal transition rate: 1 °C/min to 60 °C/min  Maximum specimen size Upto 0.35 m <sup>3</sup>

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
10.	<b>IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Industrial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive</b>	Salt Spray/Mist At Ambient Pressure	BS EN ISO 9227: 2012 BS ISO 16750-4: 2010 IEC 61587-1: 2012 BS EN IEC 60068-2-11: 1999 BS EN IEC 60068-2-52: 1996 EN ETSI 300019-1-1: 2004 EN ETSI 300019-1-2 V2.2.1: (2014-04) EN ETSI 300019-1-3 V2.4.1: (2014-04) EN ETSI 300019-2-1: 2000 EN ETSI 300019-2-2 V2.3.1: (2013-04) EN ETSI 300019-2-3 V2.3.1: (2013-04) EN ETSI 300019-2-4: 2012 NEBS GR 63 CORE ISSUE 3: 2006 QM 333 / Issue: March 2010 ASTM B117: 2011 JSS 55555, Revision. 2, 2000 RTCA-DO-160G: 2010 MIL-STD-810G: 2008 Method. 509.5 MIL-STD-202G: 2002 Method. 101E	Condensation humidity mode Temperature Range: 25 °C to (+)55 °C Salt spray mode Temperature Range: 25 °C to (+)50 °C RH Range: 55 % to 95 % Salt spray fall-out rates: 0.5 ml to 3.0 ml per 80 cm <sup>2</sup> per hour

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
11.	<b>IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Industrial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive</b>	Salt Mist Cyclic Corrosion Testing	ISO 11997-1: 2005 ISO 14993: 2001 BS EN IEC 60068-2-52: 1996 SAE J1455: 2012 RTCA-DO-160G: 2010 MIL-STD-810G: 2008 Method. 509.5	Condensation humidity mode Temperature Range: 25°C to +55°C  Salt spray mode Temperature Range: 25 °C to (+)50 °C  RH Range: 55 % to 95 %  Salt spray fall-out rates: 0.5 ml to 3.0 ml per 80 cm <sup>2</sup> per hour

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
12.	<b>IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Industrial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive</b>	Altitude	EN ETSI 300019-1-1: 2004 EN ETSI 300019-1-2 V2.2.1: (2014-04) EN ETSI 300019-1-3 V2.4.1: (2014-04) EN ETSI 300019-2-1: 2000 EN ETSI 300019-2-2 V2.3.1: (2013-04) EN ETSI 300019-2-3 V2.3.1: (2013-04) EN ETSI 300019-2-4: 2012 IEC 60068-2-13: 1983 BS ISO 16750-4: 2010 ISO 2873: 2000 IEC 60721-1: 2002 QM 333 / Issue: March 2010 NEBS GR 63 CORE ISSUE 3: 2006 SAE J1455: 2012 JSS 55555, Revision. 2, 2000 MIL PRF 28800F: 1996 RTCA-DO-160G: 2010 MIL-STD-810G: 2008 Method. 500.5 MIL STD 202G: 2002 Method. 105C,	Altitude Range: Pressure Upto 30,000 m/ 0.26 kPa/100 kFT

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
13.	<b>IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Indust rial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive</b>	Combined Sequential Cold, Low Air Pressure, and Damp Heat Test	IEC 60068-2-39: 1976	Altitude Range: Pressure Upto 19,000 m, 5.3 kPa,  Temperature Range: -70 °C to 175 °C  Relative Humidity Range: 40 % to 95 %

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>14.</b>	<b>IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Industrial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive</b>	<b>Combined Cold/Low Air Pressure Tests</b>	<b>IEC 60068-2-40: 1983 RTCA-DO-160G: 2010</b>	<b>Altitude Range: Pressure Upto 19,000 m, 5.3 kPa,  Temperature Range: Upto (-)70 °C.</b>

<b>Laboratory</b>	<b>Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>21.07.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
15.	<b>IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement / Laboratory/Indust rial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive</b>	Composite Temperature, Humidity and Altitude Testing	NEBS GR 63 CORE ISSUE 3: 2006 RTCA-DO-160G: 2010 MIL PRF 28800F: 1996	Altitude Range: Pressure Upto 19,000 m, 5.3 kPa,  Temperature Range: (-)70 °C to 175 °C  Relative Humidity Range: 40 % to 95 %

**Laboratory** Tarang - Product Qualification and Compliance Planet, Wipro Technologies, Survey No. 70, 77, 78/8A, Dodda Kannelli, Sarjapur Road, Bengaluru, Karnataka

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
16.	IT Products/ Telecom/ Wireless Products/ Domestic/ Medical/ Consumer/ Household/ Test and Measurement /	Combined Dry Heat/Low Air Pressure Tests	IEC 60068-2-41: 1983 RTCA-DO-160G: 2010	Altitude Range: Pressure Upto 19,000 m, 5.3 kPa,  Temperature Range: Up to 175 °C  Relative Humidity Range: 40 % to 95 %
17.	Laboratory/Industrial Automation/ Machinery/ Automotive/ Scientific/ Defense/ Military/ Aerospace/ Locomotive	Thermal Shock/Rapid Temperature Cycling	BS EN 60068-2-14: 2009 SAE J 1455-2012 MIL-STD-810G: 2008 Method. 503.5 MIL-STD-202G: 2002 Method. 107G JSS 55555, Revision. 2: 2000	Temperature Range: Cold Cabinet: (-)85 to (+)180 °C Hot cabinet: (+)60 °C to (+)200 °C Transfer Time: 10 s  Maximum specimen size Upto 0.6 m <sup>3</sup>

-X-X-X-X-X-X-X-X-X-X-X-X-