



**GOVERNMENT OF INDIA  
MINISTRY OF COMMUNICATIONS  
DEPARTMENT OF TELECOMMUNICATIONS  
TELECOMMUNICATION ENGINEERING CENTRE  
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi-110001**

## **CERTIFICATE OF DESIGNATION**

**M/s DELHI TEST HOUSE, SONIPAT**

has been assessed and designated as Conformity Assessment Body (CAB)  
for its facilities at

**PLOT NO. 65, PHASE-IV, SECTOR-57, HSIDC INDUSTRIAL AREA,  
BEHIND PARNAMI HOSPITAL, KUNDLI, SONIPAT- 131028**

**In the field of Testing**

**Certificate No. TEC/MRA/CAB/IND-D/78**

**Issue Date: 04/11/2024**

**Validity: 01/11/2024 to 31/10/2027**

**This Certificate remains valid for the Scope of Designation as specified in the Annexure subject to the continued validity of NABL Accreditation and satisfied compliance to the Standards/specifications against which lab has been designated and strict compliance to the relevant terms and conditions of TEC CAB Designation Scheme.**

**(To see the scope of designation of this laboratory, you may also visit TEC website [www.tec.gov.in](http://www.tec.gov.in))**

**Signed for and on behalf of TEC**

**Sanjeev Kumar Arya  
Director (CA)  
For Designating Authority  
TEC**

**Certificate No: TEC/MRA/CAB/IND-D/78 dated 04/11/2024 issued to  
M/s Delhi Test House, Sonipat  
Plot No. 65, Phase-IV, Sector-57, HSIDC Industrial Area,  
Behind Parnami Hospital, Kundli, Sonipat- 131028**



**Validity: - 01/11/2024 to 31/10/2027**

### **Terms & Conditions**

This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESEMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESEMENT AND CERTIFICATION OF TELECOMMUNICATION EQUIPMENT ISSUE 3 NO. TEC 04019:2023.

Some of the conditions are reiterated as under:

#### **A. Obligations of the Designated CAB.**

1. It shall ensure that it maintains its accreditation status from any recognised Indian accreditation body like NABL during validity period of certificate.
2. It shall follow the stipulated procedures, rules and policies laid down by Designating Authority (DA) or Mutual Recognition Agreement (MRA)\* partner for testing and evaluation.
3. In respect of tests for which it is seeking designation, it shall have no interest whatsoever in any business to carry on testing in an unfair or biased manner.
4. It shall fully indemnify DA from and against all liabilities, damages, claims, costs, and expenses incurred or sustained by DA as a result of any action taken or omitted by DA relating to the process of designation.
5. It shall comply with DA's or MRA partner's terms and conditions for designation and recognition as modified from time to time.
6. It shall be under obligation to participate in the online process prescribed by TEC for test and certification against TEC's GR/IR/ER and standards.
7. It shall have a record system which shall have a retention period of at least 5 years for documents related to the equipment testing. It shall maintain all the relevant documents including list of products submitted for testing, product-wise testing and evaluation reports. These documents shall be produced before the DA within seven days, as and when required.
8. It shall ensure the Intellectual Property Rights of the customers in the course of testing by maintaining professional ethics, secrecy and keeping all the product related information confidential.

\*Applicable only if recognized by MRA (Mutual Recognition Agreement) partner.

9. It shall notify the DA in writing of occurrence of any of the following incident(s) within 2 weeks of its occurrence
  - a) Cessation of its business of conformity assessment for which it is Designated or accredited
  - b) Changes in its legal, commercial, or Organisational status
  - c) Changes, which may affect continuing compliance with any of the criteria or requirement specified by DA or MRA partner.
  - d) Change of premises

## **B. REFERENCE TO DESIGNATION STATUS**

1. Designated CABs may advertise their designation status with regard to standards or parts thereof which are included in the scope of designation.
2. The advertisement should not imply, or otherwise suggest that DA or MRA Partner has endorsed the product or imply that the designated CAB is an agent or representative of DA or MRA Partner.
3. CABs whose designations have been suspended or withdrawn for any reason, shall discontinue advertisement of their designated status and not make any misleading statements regarding their designation status.

## **C. POST-DESIGNATION SURVEILLANCE**

As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

## **D. SUSPENSION OR WITHDRAWAL OF DESIGNATION**

1. DA shall suspend or withdraw the designation of a CAB if
  - a. Its accreditation is withdrawn.
  - b. It is found that the CAB is not complying with the stipulated criteria or requirements.
  - c. It is guilty of any offence involving fraud or dishonesty.
  - d. DA concludes that there is a just cause for withdrawing the designation.
2. A CAB whose designation, and recognition in case of MRA, has been suspended or withdrawn shall be removed from the list of designated CABs, in case it fails to take corrective measures.
3. DA shall keep the designation of a Designated CAB under suspension, until the completion of formal review process.

## **E. AMENDMENT TO THE SCHEME**

DA reserves the rights to amend the scheme, as and when required, for the purpose of streamlining designation process.

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**SCOPE OF DESIGNATION**  
**(ANNEXURE)**

**Laboratory Name: M/s Delhi Test House, Sonipat**  
**Plot No. 65, Phase-IV, Sector-57, HSIDC Industrial Area,**  
**Behind Parnami Hospital, Kundli, Sonipat- 131 028**

**Certificate Number: TEC/MRA/CAB/IND-D/78**

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**Validity: 01/11/2024 to 31/10/2027**

**Last Amended on: ----**

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
1.	<b>EMI/EMC Testing for Telecom Equipment</b>	Conducted Emission CISPR 22	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Emission CISPR 32	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Emission CISPR 14-1	TEC/SD/DD/EMC-221/05/OCT-16
		Radiated Emission CISPR 22	TEC/SD/DD/EMC-221/05/OCT-16
		Radiated Emission CISPR 32	TEC/SD/DD/EMC-221/05/OCT-16
		Radiated Emission CISPR 14-1	TEC/SD/DD/EMC-221/05/OCT-16
		Electrostatic Discharge (ESD) IEC 61000-4-2	TEC/SD/DD/EMC-221/05/OCT-16
		Immunity to Radiated RF IEC 61000-4-3	TEC/SD/DD/EMC-221/05/OCT-16
		Electrical Fast Transient/Burst (Power Port only) IEC 61000-4-4	TEC/SD/DD/EMC-221/05/OCT-16
		Surge IEC 61000-4-5	TEC/SD/DD/EMC-221/05/OCT-16
		Conducted Susceptibility (Power Port only) IEC 61000-4-6	TEC/SD/DD/EMC-221/05/OCT-16
		Immunity to Voltage Dips and Short Interruptions IEC 61000-4-11	TEC/SD/DD/EMC-221/05/OCT-16

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**Last Amended on: ----**

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
2.	<b>Conferencing Equipment</b>	<b>Parameters Linked with Product Variant</b>	Voice Conference Verification TEC ER No. TEC12662407
			Over Voltage Current Protection on 2W ITU-T K.21 TEC ER No. TEC12662407
		<b>Interface: 2 Wire</b>	Insulation Test for 2 Wire Interface ETSI EN 300 001 TEC ER No. TEC12662407
3.	<b>Cordless Telephone</b>	<b>Parameters Linked with Product Variant</b>	EIRP for Cordless Telephone WPC GSR. Annex-D2 TEC ER No. TEC12672407
			Frequency Band For Cordless Telephone WPC GSR. Annex-D2 TEC ER No. TEC12672407
			Over Voltage Current Protection on 2W Int. ITU-T K.21 TEC ER No. TEC12672407
			Spurious Emissions for Cordless Phone Annex-D2 TEC ER No. TEC12672407
			Transmit Power for Cordless Telephone Annex-D2 TEC ER No. TEC12672407
	<b>Interface: 2 Wire</b>	Insulation Test for 2 wire Int. ETSI EN 300 001 TEC ER No. TEC12672407	
4.	<b>G3 Fax Machine</b>	<b>Parameters Linked with Product Variant</b>	Over Voltage Current Protection on 2W ITU-T K.21 TEC ER No. TEC13292407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>G3 Fax Machine</b>	<b>Interface: 2 Wire</b>	Insulation Test for 2 Wire Interface ETSI EN 300 001 TEC ER No. TEC13292407
5.	<b>Modem</b>	<b>Parameters Linked with Product Variant</b>	Over Voltage Current Protection on 2W ITU-T K.21 TEC ER No. TEC16632407
		<b>Interface: 2 Wire</b>	Insulation Test for 2 Wire Interface ETSI EN 300 001 TEC ER No. TEC16632407
6.	<b>Point of Sale Devices</b>	<b>Parameters Linked with Product Variant</b>	Over Voltage Current Protection on 2W ITU-T K.21 TEC ER No. TEC17672407
		<b>Interface: 2 Wire</b>	Insulation Test for 2 Wire Interface ETSI EN 300 001 TEC ER No. TEC17672407
		<b>Interface: GSM or GPRS or EDGE</b>	Transmitter Maximum Output Power 3GPP TS 51 010-1, Clause- 13.3 EN 301 511 (GSM) Clause- 4.2.5 TEC ER No. TEC17672407
			Transmitter Maximum Output Power 3GPP TS 51 010-1, Clause- 13.16.2 EN 301 511 (GSM) Clause- 4.2.10 TEC ER No. TEC17672407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Point of Sale Devices</b>	<b>Interface: GSM or GPRS or EDGE</b>	Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.4 EN 301 511 (GSM), Clause- 4.2.6	TEC ER No. TEC17672407
			Output RF Spectrum 3GPP TS 51 010-1. Clause- 13.16.3 EN 301 511 (GSM) Clause- 4.2.11	TEC ER No. TEC17672407
			Spurious Emissions (MS allocated a channel) 3GPP TS 51 010-1, Clause-12.1.1 EN 301 511 (GSM), Clause- 4.2.12	TEC ER No. TEC17672407
			Spurious Emission (MS in idle mode) 3GPP TS 51 010-1, Clause- 12.1.2 EN 301 511 (GSM), Clause- 4.2.13	TEC ER No. TEC17672407
			Frequency Error and Phase Error 3GPP TS 51 010-1, Clause- 13.1 EN 301 511 (GSM), Clause- 4.2.1	TEC ER No. TEC17672407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Point of Sale Devices</b>	<b>Interface: GSM or GPRS or EDGE</b>	Frequency Error and Phase Error GPRS 3GPP TS 51 010-1, Clause-13.16.1 EN 301 511 (GSM), Clause- 4.2.4	TEC ER No. TEC17672407
			Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1, Clause- 14.2.1 EN 301 511 (GSM), Clause- 4.2.42	TEC ER No. TEC17672407
			Adjacent Channel Rejection (Speech Channels) 3GPP TS 51 010-1, Clause- 14.5.1 EN 301 511 (GSM) Clause- 4.2.38	TEC ER No. TEC17672407
			Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 EN 301 511 (GSM), Clause- 4.2.20	TEC ER No. TEC17672407
		<b>Interface: LTE or LTE-A</b>	Maximum Output Power 3GPP TS 36.521-1, Clause- 6.2.2 EN 301 908-13 (LTE), Clause- 4.2.2.1	TEC ER No. TEC17672407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Point of Sale Devices</b>	<b>Interface: LTE or LTE-A</b> Spectrum Emissions Mask 3GPP TS 36.521-1 Clause- 6.6.2.1 EN 301 908-13 (LTE), Clause- 4.2.3.1	TEC ER No. TEC17672407
		Spurious Emissions 3GPP TS 36.521-1, Clauses- 6.6.3.1, 6.6.3.2, 6.6.3.3 EN 301 908-13 (LTE), Clause- 4.2.4	TEC ER No. TEC17672407
		Receiver Spurious Emission 3GPP TS 36.521-1, Clause- 7.9 EN 301 908-13 (LTE), Clause- 4.2.10	TEC ER No. TEC17672407
		Receiver Reference Sensitivity Level 3GPP TS 36.521-1, Clause- 7.3 EN 301 908-13 (LTE), Clause- 4.2.12	TEC ER No. TEC17672407
		Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 36.521-1, Clause- 7.5 EN 301 908-13 (LTE), Clause- 4.2.6.1	TEC ER No. TEC17672407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Point of Sale Devices</b>	<b>Interface: LTE or LTE-A</b>	Receiver In-band Blocking 3GPP TS 36.521-1, Clause- 7.6.1 EN 301 908-13 (LTE), Clause- 4.2.7.1	TEC ER No. TEC17672407
		<b>Interface: WCDMA or HSPA</b>	Transmitter Maximum Output Power 3GPP TS 34.121-1, Clause- 5.2 EN 301 908-2 (UMTS), Clause- 4.2.2.1	TEC ER No. TEC17672407
			Transmitter Spectrum Emissions Mask 3GPP TS 34.121-1, Clause- 5.9 EN 301 908-2 (UMTS), Clause- 4.2.3.1	TEC ER No. TEC17672407
			Transmitter Spurious Emissions 3GPP TS 34.121-1, Clause- 5.11 EN 301 908-2 (UMTS), Clause- 4.2.4	TEC ER No. TEC17672407
			Receiver Spurious Emission 3GPP TS 34.121-1, Clause- 6.8 EN 301 908-2 (UMTS), Clause- 4.2.10	TEC ER No. TEC17672407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Point of Sale Devices</b>	<b>Interface: WCDMA or HSPA</b>	Transmitter Minimum Output Power 3GPP TS 34.121-, Clause- 5.4.3 EN 301 908-2 (UMTS), Clause- 4.2.5.1	TEC ER No. TEC17672407
			Receiver Reference Sensitivity Level 3GPP TS 34.121-1, Clause- 6.2 EN 301 908-2 (UMTS), Clause- 4.2.13	TEC ER No. TEC17672407
			Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 34.121-1, Clause- 6.4 EN 301 908-2 (UMTS), Clause- 4.2.6	TEC ER No. TEC17672407
			Receiver In-Band Blocking 3GPP TS 34.121-1, Clause- 6.5.2.1 EN 301 908-2 (UMTS), Clause -4.2.7	TEC ER No. TEC17672407
		<b>Interface: Wi-Fi</b>	RF Output Power ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.2	TEC ER No. TEC17672407
			Power Spectral Density ETSI EN 300 328 V2.1.1.(2016-11) Clause- 5.4.3	TEC ER No. TEC17672407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Point of Sale Devices</b>	<b>Interface: Wi-Fi</b> Duty Cycle, Tx-Sequence, Tx-gap (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.2	TEC ER No. TEC17672407
		Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.2	TEC ER No. TEC17672407
		Occupied Channel Bandwidth ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.7	TEC ER No. TEC17672407
		Transmitter Unwanted Emissions in the Out-of-Band Domain ETSI EN 300 328 V2.1.1 (2016-11) Clause -5.4.8	TEC ER No. TEC17672407
		Transmitter Unwanted Emissions in the Spurious Domain (Conductive Testing only) ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.9	TEC ER No. TEC17672407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Point of Sale Devices</b>	<b>Interface: Wi-Fi</b>	Receiver Spurious Emission (Conductive Testing only) ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.10	TEC ER No. TEC17672407
		Receiver Blocking ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.11	TEC ER No. TEC17672407	
		Carrier Frequencies ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.2	TEC ER No. TEC17672407	
		Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.3	TEC ER No. TEC17672407	
		Power Spectral Density ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.4	TEC ER No. TEC17672407	
		Transmitter Unwanted Emissions Outside 5GHz RLAN Bands (Conductive Testing only) ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.5	TEC ER No. TEC17672407	

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Point of Sale Devices</b>	<b>Interface: Wi-Fi</b> Transmitter Unwanted Emissions within 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.6	TEC ER No. TEC17672407
		Adaptivity ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.9	TEC ER No. TEC17672407
		Receiver Blocking ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.10	TEC ER No. TEC17672407
		Maximum Conducted Output Power FCC CFR 47 Subpart C Cause-. 15.247(b), Clause- 15.407 (a)	TEC ER No. TEC17672407
		6 dB Bandwidth FCC CFR 47 Subpart C Clause- 15.247(b)	TEC ER No. TEC17672407
		Maximum Power Spectral Density FCC CFR 47 Subpart C Clause- 15.247(e), FCC CFR 47 Subpart E, Clause- 15.407 (a)	TEC ER No. TEC17672407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Point of Sale Devices</b>	<b>Interface: Wi-Fi</b>	Band Edge Compliance (Emissions in the Non Restricted Frequency Band) FCC CFR 47 Subpart C, Clause- 15.247(d)	TEC ER No. TEC17672407
			Bandwidth Occupancy (20 db Bandwidth) FCC CFR 47 Subpart C Clause-15.247(a)(1)/ 15.215 (c)	TEC ER No. TEC17672407
			Number of Hopping Channel FCC CFR 47 Subpart C Clause- 15.247 (a)(1)(ii)	TEC ER No. TEC17672407
			Carrier Frequency Separation FCC CFR 47 Subpart C Clause- 15.247(a)(1)	TEC ER No. TEC17672407
			EIRP for WIFI Interface Annex G-2.16 and G-2.17	TEC ER No. TEC17672407
			Frequency for Wi-Fi Equipment Annex G-1.7	TEC ER No. TEC17672407
			<b>Interface: Bluetooth Low Energy (BLE)</b>	EIRP for BLE Interface ETSI EN 300 328 V2.1.1.(2016-11) WPC GSR 45(E)
		Frequency of Operation for BLE Interface WPC GSR 45(E)		TEC ER No. TEC17672407

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**SCOPE OF DESIGNATION**  
**(ANNEXURE)**

**Laboratory Name: M/s Delhi Test House, Sonipat**  
**Plot No. 65, Phase-IV, Sector-57, HSIDC Industrial Area,**  
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
7.	<b>2-Wire Telephone Equipment</b>	<b>Parameters Linked with Product Variant</b> Over Voltage Current Protection on 2W ITU-T K.21	TEC ER No. TEC18352407
		<b>Interface: 2 Wire</b> Insulation Test for 2 Wire Interface ETSI EN 300 001	TEC ER No. TEC18352407
8.	<b>Feedback device</b>	<b>Interface: GSM or GPRS or EDGE</b> Transmitter Maximum Output Power 3GPP TS 51 010-1, Clause- 13.3 EN 301 511 (GSM) Clause- 4.2.5	TEC ER No. TEC23232408
		Transmitter Maximum Output Power 3GPP TS 51 010-1, Clause- 13.16.2 EN 301 511 (GSM) Clause- 4.2.10	TEC ER No. TEC23232408
		Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.4 EN 301 511 (GSM), Clause- 4.2.6	TEC ER No. TEC23232408
		Output RF Spectrum 3GPP TS 51 010-1. Clause- 13.16.3 EN 301 511 (GSM) Clause- 4.2.11	TEC ER No. TEC23232408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Feedback device</b>	<b>Interface: GSM or GPRS or EDGE</b> Spurious Emissions (MS allocated a channel) 3GPP TS 51 010-1, Clause-12.1.1 EN 301 511 (GSM), Clause- 4.2.12	TEC ER No. TEC23232408
		Spurious Emission (MS in idle mode) 3GPP TS 51 010-1, Clause- 12.1.2 EN 301 511 (GSM), Clause- 4.2.13	TEC ER No. TEC23232408
		Frequency Error and Phase Error 3GPP TS 51 010-1, Clause- 13.1 EN 301 511 (GSM), Clause- 4.2.1	TEC ER No. TEC23232408
		Frequency Error and Phase Error GPRS 3GPP TS 51 010-1, Clause-13.16.1 EN 301 511 (GSM), Clause- 4.2.4	TEC ER No. TEC23232408
		Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1, Clause- 14.2.1 EN 301 511 (GSM), Clause- 4.2.42	TEC ER No. TEC23232408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Feedback device</b>	<b>Interface: GSM or GPRS or EDGE</b>	Adjacent Channel Rejection (Speech Channels) 3GPP TS 51 010-1, Clause- 14.5.1 EN 301 511 (GSM) Clause- 4.2.38	TEC ER No. TEC23232408
			Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 EN 301 511 (GSM), Clause- 4.2.20	TEC ER No. TEC23232408
		<b>Interface: LTE or LTE-A</b>	Maximum Output Power 3GPP TS 36.521-1, Clause- 6.2.2 EN 301 908-13 (LTE), Clause- 4.2.2.1	TEC ER No. TEC23232408
			Spectrum Emissions Mask 3GPP TS 36.521-1 Clause- 6.6.2.1 EN 301 908-13 (LTE), Clause- 4.2.3.1	TEC ER No. TEC23232408
			Spurious Emissions 3GPP TS 36.521-1, Clauses- 6.6.3.1, 6.6.3.2, 6.6.3.3 EN 301 908-13 (LTE), Clause- 4.2.4	TEC ER No. TEC23232408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Feedback device</b>	<b>Interface: LTE or LTE-A</b>	Receiver Spurious Emission 3GPP TS 36.521-1, Clause- 7.9 EN 301 908-13 (LTE), Clause- 4.2.10	TEC ER No. TEC23232408
			Receiver Reference Sensitivity Level 3GPP TS 36.521-1, Clause- 7.3 EN 301 908-13 (LTE), Clause- 4.2.12	TEC ER No. TEC23232408
			Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 36.521-1, Clause- 7.5 EN 301 908-13 (LTE), Clause- 4.2.6.1	TEC ER No. TEC23232408
			Receiver In-band Blocking 3GPP TS 36.521-1, Clause- 7.6.1 EN 301 908-13 (LTE), Clause- 4.2.7.1	TEC ER No. TEC23232408
		<b>Interface: WCDMA or HSPA</b>	Transmitter Maximum Output Power 3GPP TS 34.121-1, Clause- 5.2 EN 301 908-2 (UMTS), Clause- 4.2.2.1	TEC ER No. TEC23232408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Feedback device</b>	<b>Interface: WCDMA or HSPA</b> Transmitter Spectrum Emissions Mask 3GPP TS 34.121-1, Clause- 5.9 EN 301 908-2 (UMTS), Clause- 4.2.3.1	TEC ER No. TEC23232408
		Transmitter Spurious Emissions 3GPP TS 34.121-1, Clause- 5.11 EN 301 908-2 (UMTS), Clause- 4.2.4	TEC ER No. TEC23232408
		Receiver Spurious Emission 3GPP TS 34.121-1, Clause- 6.8 EN 301 908-2 (UMTS), Clause- 4.2.10	TEC ER No. TEC23232408
		Transmitter Minimum Output Power 3GPP TS 34.121-1, Clause- 5.4.3 EN 301 908-2 (UMTS), Clause- 4.2.5.1	TEC ER No. TEC23232408
		Receiver Reference Sensitivity Level 3GPP TS 34.121-1, Clause- 6.2 EN 301 908-2 (UMTS), Clause- 4.2.13	TEC ER No. TEC23232408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Feedback device</b>	<b>Interface: WCDMA or HSPA</b>	Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 34.121-1, Clause- 6.4 EN 301 908-2 (UMTS), Clause- 4.2.6	TEC ER No. TEC23232408
			Receiver In-Band Blocking 3GPP TS 34.121-1, Clause- 6.5.2.1 EN 301 908-2 (UMTS), Clause -4.2.7	TEC ER No. TEC23232408
9.	<b>IoT Gateway</b>	<b>Interface: GSM or GPRS or EDGE</b>	Transmitter Maximum Output Power 3GPP TS 51 010-1 Clause- 13.3 EN 301 511 (GSM) Clause- 4.2.5	TEC ER No. TEC24492408
			Transmitter Maximum Output Power 3GPP TS 51 010-1 Clause- 13.16.2 EN 301 511 (GSM) Clause- 4.2.10	TEC ER No. TEC24492408
			Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.4 EN 301 511 (GSM) Clause- 4.2.6	TEC ER No. TEC24492408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	<b>Interface: GSM or GPRS or EDGE</b>	Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.16.3 EN 301 511 (GSM) Clause- 4.2.11	TEC ER No. TEC24492408
			Spurious Emissions (MS allocated a channel) 3GPP TS 51 010-1 Clause- 12.1.1 EN 301 511 (GSM) Clause- 4.2.12	TEC ER No. TEC24492408
			Spurious Emission (MS in idle mode) 3GPP TS 51 010-1 Clause- 12.1.2 EN 301 511 (GSM) Clause- 4.2.13	TEC ER No. TEC24492408
			Frequency Error and Phase Error 3GPP TS 51 010-1 Clause- 13.1 EN 301 511 (GSM) Clause- 4.2.1	TEC ER No. TEC24492408
			Frequency Error and Phase Error GPRS:3GPP TS 51 010-1 Clause- 13.16.1 EN 301 511 (GSM) Clause- 4.2.4	TEC ER No. TEC24492408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>IoT Gateway</b>	<b>Interface: GSM or GPRS or EDGE</b>	Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 EN 301 511 (GSM) Clause- 4.2.42	TEC ER No. TEC24492408
			Adjacent Channel Rejection (Speech Channels) 3GPP TS 51 010-1 Clause- 14.5.1 EN 301 511 (GSM) Clause- 4.2.38	TEC ER No. TEC24492408
			Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 EN 301 511 (GSM) Clause- 4.2.20	TEC ER No. TEC24492408
		<b>Interface: LTE or LTE-A</b>	Maximum Output Power 3GPP TS 36.521-1 Clause- 6.2.2 EN 301 908-13 (LTE) Clause- 4.2.2.1	TEC ER No. TEC24492408
			Spectrum Emissions Mask 3GPP TS 36.521-1 Clause- 6.6.2.1 EN 301 908-13 (LTE) Clause- 4.2.3.1	TEC ER No. TEC24492408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>IoT Gateway</b>	<b>Interface: LTE or LTE-A</b> Spurious Emissions 3GPP TS 36.521-1 Clauses- 6.6.3.1, 6.6.3.2, 6.6.3.3 EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC24492408
		Receiver Spurious Emission 3GPP TS 36.521-1 Clause- 7.9 EN 301 908-13 (LTE) Clause- 4.2.10	TEC ER No. TEC24492408
		Receiver Reference Sensitivity Level 3GPP TS 36.521-1 Clause- 7.3 EN 301 908-13 (LTE) Clause- 4.2.12	TEC ER No. TEC24492408
		Receiver Adjacent Channel Selectivity(ACS) 3GPP TS 36.521-1 Clause- 7.5 EN 301 908-13 (LTE) Clause- 4.2.6.1	TEC ER No. TEC24492408
		Receiver In-Band Blocking 3GPP TS 36.521-1 Clause- 7.6.1 EN 301 908-13 (LTE) Clause- 4.2.7.1	TEC ER No. TEC24492408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>IoT Gateway</b>	<b>Interface: WCDMA or HSPA</b> Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause- 5.2 EN 301 908-2 (UMTS) Clause- 4.2.2.1	TEC ER No. TEC24492408
		Transmitter Spectrum Emissions Mask 3GPP TS 34.121-1 Clause- 5.9 EN 301 908-2 (UMTS) Clause- 4.2.3.1	TEC ER No. TEC24492408
		Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause- 5.11 EN 301 908-2 (UMTS) Clause- 4.2.4	TEC ER No. TEC24492408
		Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC24492408
		Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause- 5.4.3 EN 301 908-2 (UMTS) Clause- 4.2.5.1	TEC ER No. TEC24492408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification			
	<b>IoT Gateway</b>	<b>Interface: WCDMA or HSPA</b>	Receiver Reference Sensitivity Level 3GPP TS 34.121-1 Clause- 6.2 EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC24492408		
			Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 34.121-1 Clause- 6.4 EN 301 908-2 (UMTS) Clause- 4.2.6	TEC ER No. TEC24492408		
			Receiver In-Band Blocking 3GPP TS 34.121-1 Clause- 6.5.2.1 EN 301 908-2 (UMTS) Clause- 4.2.7	TEC ER No. TEC24492408		
				<b>Interface: Wi-Fi</b>	RF Output Power ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2	TEC ER No. TEC24492408
					Power Spectral Density ETSI EN 300 328 V2.1.1.(2016-11) Clause 5.4.3	TEC ER No. TEC24492408
					Duty cycle, Tx-sequence, Tx-gap (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.2	TEC ER No. TEC24492408

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	<b>IoT Gateway</b>	<b>Interface: Wi-Fi</b> Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.2	TEC ER No. TEC24492408
		Occupied Channel Bandwidth ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.7	TEC ER No. TEC24492408
		Transmitter Unwanted Emissions in the Out-of-band Domain ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.8	TEC ER No. TEC24492408
		Transmitter Unwanted Emissions in the Spurious Domain (Conductive Testing only) ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.9	TEC ER No. TEC24492408
		Receiver Spurious Emission(Conductive Testing only) ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.10	TEC ER No. TEC24492408

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	<b>IoT Gateway</b>	<b>Interface: Wi-Fi</b>	Receiver Blocking ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.11	TEC ER No. TEC24492408
			Carrier Frequencies ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.2	TEC ER No. TEC24492408
			Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.3	TEC ER No. TEC24492408
			Power Spectral Density ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.4	TEC ER No. TEC24492408
			Transmitter Unwanted Emissions Outside 5GHz RLAN Bands (Conductive Testing only) ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.5	TEC ER No. TEC24492408
			Transmitter Unwanted Emissions within 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.6	TEC ER No. TEC24492408

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	<b>IoT Gateway</b>	<b>Interface: Wi-Fi</b>	Adaptivity ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.9	TEC ER No. TEC24492408
			Receiver Blocking ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.10	TEC ER No. TEC24492408
			Maximum Conducted Output Power FCC CFR 47 Subpart C Cl. 15.247(b), Cl. 15.407(a)	TEC ER No. TEC24492408
			6 dB Bandwidth FCC CFR 47 Subpart C Cl. 15.247(b)	TEC ER No. TEC24492408
			Maximum Power Spectral Density FCC CFR 47 Subpart C Cl. 15.247(e), FCC CFR 47 Subpart E Cl. 15.407 (a)	TEC ER No. TEC24492408
			Band Edge Compliance (Emissions in the Non Restricted Frequency Band) FCC CFR 47 Subpart C Cl. 15.247(d)	TEC ER No. TEC24492408
			Bandwidth Occupancy (20db Bandwidth) FCC CFR 47 Subpart C Cl.15.247(a)(1)/15.215 (c)	TEC ER No. TEC24492408

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**SCOPE OF DESIGNATION**  
**(ANNEXURE)**

**Laboratory Name: M/s Delhi Test House, Sonipat**  
**Plot No. 65, Phase-IV, Sector-57, HSIDC Industrial Area,**  
**Behind Parnami Hospital, Kundli, Sonipat- 131 028**

**Certificate Number: TEC/MRA/CAB/IND-D/78**

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>IoT Gateway</b>	<b>Interface: Wi-Fi</b>	Number of hopping channel FCC CFR 47Subpart C Cl. 15.247 (a)(1)(ii)	TEC ER No. TEC24492408
			Carrier frequency separation FCC CFR 47Subpart C Cl. 15.247(a)(1)	TEC ER No. TEC24492408
			EIRP for WIFI Interface Annex G-2.16 and G-2.17	TEC ER No. TEC24492408
			Frequency for Wi-Fi equipment Annex G-1.7	TEC ER No. TEC24492408
		<b>Interface: Bluetooth Low Energy (BLE)</b>	EIRP for BLE Interface ETSI EN 300 328 V2.1.1.(2016-11) WPC GSR 45(E)	TEC ER No. TEC24492408
			Frequency of Operation for BLE Interface WPC GSR 45(E)	TEC ER No. TEC24492408
10.	<b>Smart Camera</b>	<b>Interface: GSM or GPRS or EDGE</b>	Transmitter Maximum Output Power 3GPP TS 51 010-1 Clause- 13.3 EN 301 511 (GSM) Clause- 4.2.5	TEC ER No. TEC28822407
			Transmitter Maximum Output Power 3GPP TS 51 010-1 Clause- 13.16.2 EN 301 511 (GSM) Clause- 4.2.10	TEC ER No. TEC28822407

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**SCOPE OF DESIGNATION**  
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Smart Camera</b>	<b>Interface: GSM or GPRS or EDGE</b>	Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.4 EN 301 511 (GSM) Clause- 4.2.6	TEC ER No. TEC28822407
			Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.16.3 EN 301 511 (GSM) Clause- 4.2.11	TEC ER No. TEC28822407
			Spurious Emissions (MS allocated a channel) 3GPP TS 51 010-1 Clause- 12.1.1 EN 301 511 (GSM) Clause- 4.2.12	TEC ER No. TEC28822407
			Spurious Emission (MS in idle mode) 3GPP TS 51 010-1 Clause- 12.1.2 EN 301 511 (GSM) Clause- 4.2.13	TEC ER No. TEC28822407
			Frequency Error and Phase Error 3GPP TS 51 010-1 Clause- 13.1 EN 301 511 (GSM) Clause- 4.2.1	TEC ER No. TEC28822407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Smart Camera</b>	<b>Interface: GSM or GPRS or EDGE</b>	Frequency Error and Phase Error GPRS: 3GPP TS 51 010-1 Clause- 13.16.1 EN 301 511 (GSM) Clause- 4.2.4	TEC ER No. TEC28822407
			Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 EN 301 511 (GSM) Clause- 4.2.42	TEC ER No. TEC28822407
			Adjacent Channel Rejection (Speech Channels) 3GPP TS 51 010-1 Clause- 14.5.1 EN 301 511 (GSM) Clause- 4.2.38	TEC ER No. TEC28822407
			Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 EN 301 511 (GSM) Clause- 4.2.20	TEC ER No. TEC28822407
		<b>Interface: LTE or LTE-A</b>	Maximum Output Power 3GPP TS 36.521-1 Clause- 6.2.2 EN 301 908-13 (LTE) Clause- 4.2.2.1	TEC ER No. TEC28822407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Smart Camera</b>	<b>Interface: LTE or LTE-A</b> Spectrum Emissions Mask 3GPP TS 36.521-1 Clause- 6.6.2.1 EN 301 908-13 (LTE) Clause- 4.2.3.1	TEC ER No. TEC28822407
		Spurious Emissions 3GPP TS 36.521-1 Clauses- 6.6.3.1, 6.6.3.2, 6.6.3.3 EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC28822407
		Receiver Spurious Emission 3GPP TS 36.521-1 Clause- 7.9 EN 301 908-13 (LTE) Clause- 4.2.10	TEC ER No. TEC28822407
		Receiver Reference Sensitivity Level 3GPP TS 36.521-1 Clause- 7.3 EN 301 908-13 (LTE) Clause- 4.2.12	TEC ER No. TEC28822407
		Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 36.521-1 Clause- 7.5 EN 301 908-13 (LTE) Clause- 4.2.6.1	TEC ER No. TEC28822407

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## SCOPE OF DESIGNATION (ANNEXURE)

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Smart Camera</b>	<b>Interface: LTE or LTE-A</b> Receiver In-Band Blocking 3GPP TS 36.521-1 Clause- 7.6.1 EN 301 908-13 (LTE) Clause- 4.2.7.1	TEC ER No. TEC28822407
		<b>Interface: WCDMA or HSPA</b> Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause- 5.2 EN 301 908-2 (UMTS) Clause- 4.2.2.1	TEC ER No. TEC28822407
		Transmitter Spectrum Emissions Mask 3GPP TS 34.121-1 Clause- 5.9 EN 301 908-2 (UMTS) Clause- 4.2.3.1	TEC ER No. TEC28822407
		Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause- 5.11 EN 301 908-2 (UMTS) Clause- 4.2.4	TEC ER No. TEC28822407
		Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC28822407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Camera	Interface: WCDMA or HSPA	Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause- 5.4.3 EN 301 908-2 (UMTS) Clause- 4.2.5.1	TEC ER No. TEC28822407
			Receiver Reference Sensitivity Level 3GPP TS 34.121-1 Clause- 6.2 EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC28822407
			Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 34.121-1 Clause- 6.4 EN 301 908-2 (UMTS) Clause- 4.2.6	TEC ER No. TEC28822407
			Receiver In-Band Blocking 3GPP TS 34.121-1 Clause- 6.5.2.1 EN 301 908-2 (UMTS) Clause- 4.2.7	TEC ER No. TEC28822407
		Interface: Wi-Fi	RF Output Power ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.2	TEC ER No. TEC28822407
			Power Spectral Density ETSI EN 300 328 V2.1.1.(2016-11) Clause- 5.4.3	TEC ER No. TEC28822407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Smart Camera</b>	<b>Interface: Wi-Fi</b> Duty cycle, Tx-sequence, Tx-gap (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.2	TEC ER No. TEC28822407
		Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.2	TEC ER No. TEC28822407
		Occupied Channel Bandwidth ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.7	TEC ER No. TEC28822407
		Transmitter Unwanted Emissions in the Out-of-band Domain ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.8	TEC ER No. TEC28822407
		Transmitter Unwanted Emissions in the Spurious Domain (Conductive Testing only) ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.9	TEC ER No. TEC28822407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Smart Camera</b>	<b>Interface: Wi-Fi</b>	Receiver Spurious Emission (Conductive Testing only) ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.10
		Receiver Blocking ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.11	TEC ER No. TEC28822407
		Carrier Frequencies ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.2	TEC ER No. TEC28822407
		Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.3	TEC ER No. TEC28822407
		Power Spectral Density ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.4	TEC ER No. TEC28822407
		Transmitter Unwanted Emissions Outside 5GHz RLAN Bands (Conductive Testing only) ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.5	TEC ER No. TEC28822407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Smart Camera</b>	<b>Interface: Wi-Fi</b>	
		Transmitter Unwanted Emissions within 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.6	TEC ER No. TEC28822407
		Adaptivity ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.9	TEC ER No. TEC28822407
		Receiver Blocking ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.10	TEC ER No. TEC28822407
		Maximum Conducted Output Power FCC CFR 47 Subpart C Cl. 15.247(b), Cl. 15.407(a)	TEC ER No. TEC28822407
		6 dB Bandwidth FCC CFR 47 Subpart C Cl. 15.247(b)	TEC ER No. TEC28822407
		Maximum Power Spectral Density FCC CFR 47 Subpart C Cl. 15.247(e), FCC CFR 47 Subpart E Cl. 15.407 (a)	TEC ER No. TEC28822407

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**Laboratory Name: M/s Delhi Test House, Sonipat**  
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Smart Camera</b>	<b>Interface: Wi-Fi</b>	Band Edge Compliance (Emissions in the Non Restricted Frequency Band) FCC CFR 47 Subpart C Cl. 15.247(d)	TEC ER No. TEC28822407
			Bandwidth Occupancy (20 db Bandwidth) FCC CFR 47 Subpart C Cl.15.247(a)(1)/15.215 (c)	TEC ER No. TEC28822407
			Number of Hopping Channel FCC CFR 47Subpart C Cl. 15.247 (a)(1)(ii)	TEC ER No. TEC28822407
			Carrier Frequency Separation FCC CFR 47Subpart C Cl. 15.247(a)(1)	TEC ER No. TEC28822407
			EIRP for WIFI Interface Annex G-2.16 and G-2.17	TEC ER No. TEC28822407
			Frequency for Wi-Fi equipment Annex G-1.7	TEC ER No. TEC28822407
		<b>Interface: Bluetooth Low Energy (BLE)</b>	EIRP for BLE Interface ETSI EN 300 328 V2.1.1.(2016-11) WPC GSR 45(E)	TEC ER No. TEC28822407
			Frequency of Operation for BLE Interface WPC GSR 45(E)	TEC ER No. TEC28822407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
11.	Smart Electricity Meter	Interface: GSM or GPRS or EDGE	Transmitter Maximum Output Power 3GPP TS 51 010-1 Clause- 13.3 EN 301 511 (GSM) Clause- 4.2.5	TEC ER No. TEC28362408
			Transmitter Maximum Output Power 3GPP TS 51 010-1 Clause- 13.16.2 EN 301 511 (GSM) Clause- 4.2.10	TEC ER No. TEC28362408
			Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.4 EN 301 511 (GSM) Clause- 4.2.6	TEC ER No. TEC28362408
			Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.16.3 EN 301 511 (GSM) Clause- 4.2.11	TEC ER No. TEC28362408
			Spurious Emissions (MS allocated a channel) 3GPP TS 51 010-1 Clause- 12.1.1 EN 301 511 (GSM) Clause- 4.2.12	TEC ER No. TEC28362408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Smart Electricity Meter</b>	<b>Interface: GSM or GPRS or EDGE</b> Spurious Emission (MS in idle mode) 3GPP TS 51 010-1 Clause- 12.1.2 EN 301 511 (GSM) Clause- 4.2.13	TEC ER No. TEC28362408
		Frequency Error and Phase Error 3GPP TS 51 010-1 Clause- 13.1 EN 301 511 (GSM) Clause- 4.2.1	TEC ER No. TEC28362408
		Frequency Error and Phase Error GPRS:3GPP TS 51 010-1 Clause- 13.16.1 EN 301 511 (GSM) Clause- 4.2.4	TEC ER No. TEC28362408
		Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 EN 301 511 (GSM) Clause- 4.2.42	TEC ER No. TEC28362408
		Adjacent Channel Rejection (Speech Channels) 3GPP TS 51 010-1 Clause- 14.5.1 EN 301 511 (GSM) Clause- 4.2.38	TEC ER No. TEC28362408

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	Smart Electricity Meter	<b>Interface: GSM or GPRS or EDGE</b> Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 EN 301 511 (GSM) Clause- 4.2.20	TEC ER No. TEC28362408
		<b>Interface: LTE or LTE-A</b> Maximum Output Power 3GPP TS 36.521-1 Clause- 6.2.2 EN 301 908-13 (LTE) Clause- 4.2.2.1	TEC ER No. TEC28362408
		Spectrum Emissions Mask 3GPP TS 36.521-1 Clause- 6.6.2.1 EN 301 908-13 (LTE) Clause- 4.2.3.1	TEC ER No. TEC28362408
		Spurious Emissions 3GPP TS 36.521-1 Clauses- 6.6.3.1, 6.6.3.2, 6.6.3.3 EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC28362408
		Receiver Spurious Emission 3GPP TS 36.521-1 Clause- 7.9 EN 301 908-13 (LTE) Clause- 4.2.10	TEC ER No. TEC28362408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Smart Electricity Meter</b>	<b>Interface: LTE or LTE-A</b>	Receiver Reference Sensitivity Level 3GPP TS 36.521-1 Clause- 7.3 EN 301 908-13 (LTE) Clause 4.2.12	TEC ER No. TEC28362408
			Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 36.521-1 Clause- 7.5 EN 301 908-13 (LTE) Clause- 4.2.6.1	TEC ER No. TEC28362408
			Receiver In-Band Blocking 3GPP TS 36.521-1 Clause- 7.6.1 EN 301 908-13 (LTE) Clause- 4.2.7.1	TEC ER No. TEC28362408
		<b>Interface: WCDMA or HSPA</b>	Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause- 5.2 EN 301 908-2 (UMTS) Clause- 4.2.2.1	TEC ER No. TEC28362408
			Transmitter Spectrum Emissions Mask 3GPP TS 34.121-1 Clause- 5.9 EN 301 908-2 (UMTS) Clause- 4.2.3.1	TEC ER No. TEC28362408

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**SCOPE OF DESIGNATION**  
**(ANNEXURE)**

**Laboratory Name: M/s Delhi Test House, Sonipat**  
**Plot No. 65, Phase-IV, Sector-57, HSIDC Industrial Area,**  
**Behind Parnami Hospital, Kundli, Sonipat- 131 028**

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<b>Sl. No.</b>	<b>Telecom Equipment/Product</b>	<b>Test Parameter or Type of Testing</b>	<b>Standard/ Specification</b>
	<b>Smart Electricity Meter</b>	<b>Interface: WCDMA or HSPA</b> Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause- 5.11 EN 301 908-2 (UMTS) Clause- 4.2.4	TEC ER No. TEC28362408
		Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC28362408
		Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause- 5.4.3 EN 301 908-2 (UMTS) Clause- 4.2.5.1	TEC ER No. TEC28362408
		Receiver Reference Sensitivity Level 3GPP TS 34.121-1 Clause- 6.2 EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC28362408
		Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 34.121-1 Clause- 6.4 EN 301 908-2 (UMTS) Clause- 4.2.6	TEC ER No. TEC28362408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Electricity Meter	Interface: WCDMA or HSPA	Receiver In-Band Blocking 3GPP TS 34.121-1 Clause- 6.5.2.1 EN 301 908-2 (UMTS) Clause- 4.2.7	TEC ER No. TEC28362408
12.	Smart Watch	Interface: GSM or GPRS or EDGE	Transmitter Maximum Output Power 3GPP TS 51 010-1 Clause- 13.3 EN 301 511 (GSM) Clause- 4.2.5	TEC ER No. TEC28982407
			Transmitter Maximum Output Power 3GPP TS 51 010-1 Clause- 13.16.2 EN 301 511 (GSM) Clause- 4.2.10	TEC ER No. TEC28982407
			Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.4 EN 301 511 (GSM) Clause- 4.2.6	TEC ER No. TEC28982407
			Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.16.3 EN 301 511 (GSM) Clause- 4.2.11	TEC ER No. TEC28982407

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**SCOPE OF DESIGNATION**  
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	<b>Interface: GSM or GPRS or EDGE</b> Spurious Emissions (MS allocated a channel) 3GPP TS 51 010-1 Clause- 12.1.1 EN 301 511 (GSM) Clause- 4.2.12	TEC ER No. TEC28982407
		Spurious Emission (MS in idle mode) 3GPP TS 51 010-1 Clause- 12.1.2 EN 301 511 (GSM) Clause- 4.2.13	TEC ER No. TEC28982407
		Frequency Error and Phase Error 3GPP TS 51 010-1 Clause- 13.1 EN 301 511 (GSM) Clause- 4.2.1	TEC ER No. TEC28982407
		Frequency Error and Phase Error GPRS:3GPP TS 51 010-1 Clause- 13.16.1 EN 301 511 (GSM) Clause- 4.2.4	TEC ER No. TEC28982407
		Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 EN 301 511 (GSM) Clause- 4.2.42	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	<b>Interface:</b> <b>GSM or GPRS or EDGE</b>	Adjacent Channel Rejection (Speech Channels) 3GPP TS 51 010-1 Clause- 14.5.1 EN 301 511 (GSM) Clause- 4.2.38	TEC ER No. TEC28982407
			Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 EN 301 511 (GSM) Clause- 4.2.20	TEC ER No. TEC28982407
		<b>Interface:</b> <b>LTE or LTE-A</b>	Maximum Output Power 3GPP TS 36.521-1 Clause- 6.2.2 EN 301 908-13 (LTE) Clause- 4.2.2.1	TEC ER No. TEC28982407
			Spectrum Emissions Mask 3GPP TS 36.521-1 Clause- 6.6.2.1 EN 301 908-13 (LTE) Clause- 4.2.3.1	TEC ER No. TEC28982407
			Spurious Emissions 3GPP TS 36.521-1 Clauses- 6.6.3.1, 6.6.3.2, 6.6.3.3 EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	<b>Interface: LTE or LTE-A</b>	Receiver Spurious Emission 3GPP TS 36.521-1 Clause- 7.9 EN 301 908-13 (LTE) Clause- 4.2.10	TEC ER No. TEC28982407
			Receiver Reference Sensitivity Level 3GPP TS 36.521-1 Clause- 7.3 EN 301 908-13 (LTE) Clause- 4.2.12	TEC ER No. TEC28982407
			Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 36.521-1 Clause- 7.5 EN 301 908-13 (LTE) Clause- 4.2.6.1	TEC ER No. TEC28982407
			Receiver In-Band Blocking 3GPP TS 36.521-1 Clause- 7.6.1 EN 301 908-13 (LTE) Clause- 4.2.7.1	TEC ER No. TEC28982407
		<b>Interface: WCDMA or HSPA</b>	Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause- 5.2 EN 301 908-2 (UMTS) Clause- 4.2.2.1	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Interface: WCDMA or HSPA	Transmitter Spectrum Emissions Mask 3GPP TS 34.121-1 Clause- 5.9 EN 301 908-2 (UMTS) Clause- 4.2.3.1
		Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause- 5.11 EN 301 908-2 (UMTS) Clause- 4.2.4	TEC ER No. TEC28982407
		Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC28982407
		Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause- 5.4.3 EN 301 908-2 (UMTS) Clause- 4.2.5.1	TEC ER No. TEC28982407
		Receiver Reference Sensitivity Level 3GPP TS 34.121-1 Clause- 6.2 EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	<b>Interface: WCDMA or HSPA</b>	Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 34.121-1 Clause- 6.4 EN 301 908-2 (UMTS) Clause- 4.2.6	TEC ER No. TEC28982407
			Receiver In-Band Blocking 3GPP TS 34.121-1 Clause- 6.5.2.1 EN 301 908-2 (UMTS) Clause- 4.2.7	TEC ER No. TEC28982407
		<b>Interface: Wi-Fi</b>	RF Output Power ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.2	TEC ER No. TEC28982407
			Power Spectral Density ETSI EN 300 328 V2.1.1.(2016-11) Clause- 5.4.3	TEC ER No. TEC28982407
			Duty cycle, Tx-sequence, Tx-gap (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.2	TEC ER No. TEC28982407
			Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.2	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface: Wi-Fi	Occupied Channel Bandwidth ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.7	TEC ER No. TEC28982407
			Transmitter Unwanted Emissions in the Out-of-band Domain ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.8	TEC ER No. TEC28982407
			Transmitter Unwanted Emissions in the Spurious Domain (Conductive Testing only) ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.9	TEC ER No. TEC28982407
			Receiver Spurious Emission (Conductive Testing only) ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.10	TEC ER No. TEC28982407
			Receiver Blocking ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.11	TEC ER No. TEC28982407
			Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.2	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Smart Watch</b>	<b>Interface: Wi-Fi</b> Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.3	TEC ER No. TEC28982407
		Power Spectral Density ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.4	TEC ER No. TEC28982407
		Transmitter Unwanted Emissions Outside 5 GHz RLAN Bands (Conductive Testing only) ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.5	TEC ER No. TEC28982407
		Transmitter Unwanted Emissions within 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.6	TEC ER No. TEC28982407
		Adaptivity ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.9	TEC ER No. TEC28982407
		Receiver Blocking ETSI EN 301 893 V2.1.1(2017-05) Clause- 5.4.10	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	<b>Smart Watch</b>	<b>Interface: Wi-Fi</b>	Maximum Conducted Output Power FCC CFR 47 Subpart C Cl. 15.247(b), Cl. 15.407(a)	TEC ER No. TEC28982407
			6 dB Bandwidth FCC CFR 47 Subpart C Cl. 15.247(b)	TEC ER No. TEC28982407
			Maximum Power Spectral Density FCC CFR 47 Subpart C Cl. 15.247(e), FCC CFR 47 Subpart E Cl. 15.407 (a)	TEC ER No. TEC28982407
			Band Edge Compliance (Emissions in the Non Restricted Frequency Band) FCC CFR 47 Subpart C Cl. 15.247(d)	TEC ER No. TEC28982407
			Bandwidth Occupancy (20 db Bandwidth) FCC CFR 47 Subpart C Cl.15.247(a)(1)/15.215 (c)	TEC ER No. TEC28982407
			Number of Hopping Channel FCC CFR 47Subpart C Cl. 15.247 (a)(1)(ii)	TEC ER No. TEC28982407
			Carrier Frequency Separation FCC CFR 47Subpart C Cl. 15.247(a)(1)	TEC ER No. TEC28982407
			EIRP for WIFI Interface Annex G-2.16 and G-2.17	TEC ER No. TEC28982407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Smart Watch</b>	<b>Interface: Wi-Fi</b> Frequency for Wi-Fi Equipment Annex G-1.7	TEC ER No. TEC28982407
		<b>Interface: Bluetooth Low Energy (BLE)</b> EIRP for BLE Interface ETSI EN 300 328 V2.1.1 (2016-11) WPC GSR 45(E)	TEC ER No. TEC28982407
		Frequency of Operation for BLE Interface WPC GSR 45(E)	TEC ER No. TEC28982407
13.	<b>Mobile User Equipment</b>	<b>Parameters Linked with Product Variant</b> Mobile Emergency Support- Call on 112 TS 24.008 for GSM/ UMTS/ LTE	TEC ER No. TEC47722408
		<b>Interface: GSM or GPRS or EDGE</b> Transmitter Maximum Output Power 3GPP TS 51 010-1 Clause- 13.3 EN 301 511 (GSM) Clause- 4.2.5	TEC ER No. TEC47722408
		Transmitter Maximum Output Power 3GPP TS 51 010-1 Clause- 13.16.2 EN 301 511 (GSM) Clause- 4.2.10	TEC ER No. TEC47722408
		Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.4 EN 301 511 (GSM) Clause- 4.2.6	TEC ER No. TEC47722408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Mobile User Equipment</b>	<b>Interface: GSM or GPRS or EDGE</b> Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.16.3 EN 301 511 (GSM) Clause- 4.2.11	TEC ER No. TEC47722408
		Spurious Emissions (MS allocated a channel) 3GPP TS 51 010-1 Clause- 12.1.1 EN 301 511 (GSM) Clause- 4.2.12	TEC ER No. TEC47722408
		Spurious Emission (MS in idle mode) 3GPP TS 51 010-1 Clause- 12.1.2 EN 301 511 (GSM) Clause- 4.2.13	TEC ER No. TEC47722408
		Frequency Error and Phase Error 3GPP TS 51 010-1 Clause- 13.1 EN 301 511 (GSM) Clause- 4.2.1	TEC ER No. TEC47722408
		Frequency Error and Phase Error GPRS:3GPP TS 51 010-1 Clause- 13.16.1 EN 301 511 (GSM) Clause- 4.2.4	TEC ER No. TEC47722408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Mobile User Equipment</b>	<b>Interface: GSM or GPRS or EDGE</b>	Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 EN 301 511 (GSM) Clause- 4.2.42	TEC ER No. TEC47722408
			Adjacent Channel Rejection (Speech Channels) 3GPP TS 51 010-1 Clause- 14.5.1 EN 301 511 (GSM) Clause- 4.2.38	TEC ER No. TEC47722408
			Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 EN 301 511 (GSM) Clause- 4.2.20	TEC ER No. TEC47722408
		<b>Interface: LTE or LTE-A</b>	Maximum Output Power 3GPP TS 36.521-1 Clause- 6.2.2 EN 301 908-13 (LTE) Clause- 4.2.2.1	TEC ER No. TEC47722408
			Spectrum Emissions Mask 3GPP TS 36.521-1 Clause- 6.6.2.1 EN 301 908-13 (LTE) Clause- 4.2.3.1	TEC ER No. TEC47722408

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**Last Amended on: ----**

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Mobile User Equipment</b>	<b>Interface: LTE or LTE-A</b> Spurious Emissions 3GPP TS 36.521-1 Clauses- 6.6.3.1, 6.6.3.2, 6.6.3.3 EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC47722408
		Receiver Spurious Emission 3GPP TS 36.521-1 Clause- 7.9 EN 301 908-13 (LTE) Clause- 4.2.10	TEC ER No. TEC47722408
		Receiver Reference Sensitivity Level 3GPP TS 36.521-1 Clause- 7.3 EN 301 908-13 (LTE) Clause- 4.2.12	TEC ER No. TEC47722408
		Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 36.521-1 Clause- 7.5 EN 301 908-13 (LTE) Clause 4.2.6.1	TEC ER No. TEC47722408
		Receiver In-Band Blocking 3GPP TS 36.521-1 Clause- 7.6.1 EN 301 908-13 (LTE) Clause 4.2.7.1	TEC ER No. TEC47722408

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**SCOPE OF DESIGNATION**  
**(ANNEXURE)**

**Laboratory Name: M/s Delhi Test House, Sonipat**  
**Plot No. 65, Phase-IV, Sector-57, HSIDC Industrial Area,**  
**Behind Parnami Hospital, Kundli, Sonipat- 131 028**

**Certificate Number: TEC/MRA/CAB/IND-D/78**

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**Validity: 01/11/2024 to 31/10/2027**

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Mobile User Equipment</b>	<b>Interface: WCDMA or HSPA</b> Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause- 5.2 EN 301 908-2 (UMTS) Clause- 4.2.2.1	TEC ER No. TEC47722408
		Transmitter Spectrum Emissions Mask 3GPP TS 34.121-1 Clause- 5.9 EN 301 908-2 (UMTS) Clause- 4.2.3.1	TEC ER No. TEC47722408
		Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause- 5.11 EN 301 908-2 (UMTS) Clause- 4.2.4	TEC ER No. TEC47722408
		Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC47722408
		Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause- 5.4.3 EN 301 908-2 (UMTS) Clause- 4.2.5.1	TEC ER No. TEC47722408

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**SCOPE OF DESIGNATION**  
**(ANNEXURE)**

**Laboratory Name: M/s Delhi Test House, Sonipat**  
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Mobile User Equipment</b>	<b>Interface: WCDMA or HSPA</b>	Receiver Reference Sensitivity Level 3GPP TS 34.121-1 Clause- 6.2 EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC47722408
			Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 34.121-1 Clause- 6.4 EN 301 908-2 (UMTS) Clause- 4.2.6	TEC ER No. TEC47722408
			Receiver In-Band Blocking 3GPP TS 34.121-1 Clause- 6.5.2.1 EN 301 908-2 (UMTS) Clause- 4.2.7	TEC ER No. TEC47722408
		<b>Interface: Wi-Fi</b>	RF Output Power ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.2	TEC ER No. TEC47722408
			Power Spectral Density ETSI EN 300 328 V2.1.1. (2016-11) Clause- 5.4.3	TEC ER No. TEC47722408
			Duty cycle, Tx-sequence, Tx-gap (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.2	TEC ER No. TEC47722408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Mobile User Equipment</b>	<b>Interface: Wi-Fi</b> Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.2	TEC ER No. TEC47722408
		Occupied Channel Bandwidth ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.7	TEC ER No. TEC47722408
		Transmitter Unwanted Emissions in the Out-of-Band Domain ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.8	TEC ER No. TEC47722408
		Transmitter Unwanted Emissions in the Spurious Domain (Conductive Testing only) ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.9	TEC ER No. TEC47722408
		Receiver Spurious Emission (Conductive Testing only) ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.10	TEC ER No. TEC47722408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Mobile User Equipment</b>	<b>Interface: Wi-Fi</b> Receiver Blocking ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.11	TEC ER No. TEC47722408
		Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.2	TEC ER No. TEC47722408
		Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.3	TEC ER No. TEC47722408
		Power Spectral Density ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.4	TEC ER No. TEC47722408
		Transmitter Unwanted Emissions Outside 5 GHz RLAN Bands (Conductive Testing only) ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.5	TEC ER No. TEC47722408
		Transmitter Unwanted Emissions within 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.6	TEC ER No. TEC47722408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Mobile User Equipment</b>	<b>Interface: Wi-Fi</b>	
		Adaptivity ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.9	TEC ER No. TEC47722408
		Receiver Blocking ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.10	TEC ER No. TEC47722408
		Maximum Conducted Output Power FCC CFR 47 Subpart C Cl. 15.247(b), Cl. 15.407(a)	TEC ER No. TEC47722408
		6 dB Bandwidth FCC CFR 47 Subpart C Cl. 15.247(b)	TEC ER No. TEC47722408
		Maximum Power Spectral Density FCC CFR 47 Subpart C Cl. 15.247(e), FCC CFR 47 Subpart E Cl. 15.407 (a)	TEC ER No. TEC47722408
		Band Edge Compliance (Emissions in the Non Restricted Frequency Band) FCC CFR 47 Subpart C Cl. 15.247(d)	TEC ER No. TEC47722408
		Bandwidth Occupancy (20 db Bandwidth) FCC CFR 47 Subpart C Cl.15.247(a)(1)/15.215 (c)	TEC ER No. TEC47722408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>Mobile User Equipment</b>	<b>Interface: Wi-Fi</b>	Number of Hopping Channel FCC CFR 47 Subpart C Cl. 15.247 (a)(1)(ii)	TEC ER No. TEC47722408
			Carrier Frequency Separation FCC CFR 47Subpart C Cl. 15.247(a)(1)	TEC ER No. TEC47722408
			EIRP for WIFI Interface Annex G-2.16 and G-2.17	TEC ER No. TEC47722408
			Frequency for Wi-Fi Equipment Annex G-1.7	TEC ER No. TEC47722408
		<b>Interface: Bluetooth Low Energy (BLE)</b>	EIRP for BLE Interface ETSI EN 300 328 V2.1.1.(2016-11) WPC GSR 45(E)	TEC ER No. TEC47722408
			Frequency of Operation for BLE Interface WPC GSR 45(E)	TEC ER No. TEC47722408
14.	<b>End Point Device for Environmental Monitoring</b>	<b>Interface: GSM or GPRS or EDGE</b>	Transmitter Maximum Output Power 3GPP TS 51 010-1 Clause- 13.3 EN 301 511 (GSM) Clause- 4.2.5	TEC ER No. TEC23732408
			Transmitter Maximum Output Power 3GPP TS 51 010-1 Clause- 13.16.2 EN 301 511 (GSM) Clause- 4.2.10	TEC ER No. TEC23732408

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## SCOPE OF DESIGNATION (ANNEXURE)

**Laboratory Name: M/s Delhi Test House, Sonipat**  
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>End Point Device for Environmental Monitoring</b>	<b>Interface: GSM or GPRS or EDGE</b>	Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.4 EN 301 511 (GSM) Clause- 4.2.6	TEC ER No. TEC23732408
			Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.16.3 EN 301 511 (GSM) Clause- 4.2.11	TEC ER No. TEC23732408
			Spurious Emissions (MS allocated a channel) 3GPP TS 51 010-1 Clause- 12.1.1 EN 301 511 (GSM) Clause- 4.2.12	TEC ER No. TEC23732408
			Spurious Emission (MS in idle mode) 3GPP TS 51 010-1 Clause- 12.1.2 EN 301 511 (GSM) Clause- 4.2.13	TEC ER No. TEC23732408
			Frequency Error and Phase Error 3GPP TS 51 010-1 Clause- 13.1 EN 301 511 (GSM) Clause- 4.2.1	TEC ER No. TEC23732408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>End Point Device for Environmental Monitoring</b>	<b>Interface: GSM or GPRS or EDGE</b>	Frequency Error and Phase Error GPRS:3GPP TS 51 010-1 Clause- 13.16.1 EN 301 511 (GSM) Clause- 4.2.4	TEC ER No. TEC23732408
			Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1 EN 301 511 (GSM) Clause- 4.2.42	TEC ER No. TEC23732408
			Adjacent Channel Rejection (Speech Channels) 3GPP TS 51 010-1 Clause- 14.5.1 EN 301 511 (GSM) Clause- 4.2.38	TEC ER No. TEC23732408
			Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 EN 301 511 (GSM) Clause- 4.2.20	TEC ER No. TEC23732408
		<b>Interface: LTE or LTE-A</b>	Maximum Output Power 3GPP TS 36.521-1 Clause- 6.2.2 EN 301 908-13 (LTE) Clause- 4.2.2.1	TEC ER No. TEC23732408

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## SCOPE OF DESIGNATION (ANNEXURE)

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>End Point Device for Environmental Monitoring</b>	<b>Interface: LTE or LTE-A</b>	Spectrum Emissions Mask 3GPP TS 36.521-1 Clause- 6.6.2.1 EN 301 908-13 (LTE) Clause- 4.2.3.1	TEC ER No. TEC23732408
			Spurious Emissions 3GPP TS 36.521-1 Clauses- 6.6.3.1, 6.6.3.2, 6.6.3.3 EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC23732408
			Receiver Spurious Emission 3GPP TS 36.521-1 Clause- 7.9 EN 301 908-13 (LTE) Clause- 4.2.10	TEC ER No. TEC23732408
			Receiver Reference Sensitivity Level 3GPP TS 36.521-1 Clause- 7.3 EN 301 908-13 (LTE) Clause- 4.2.12	TEC ER No. TEC23732408
			Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 36.521-1 Clause- 7.5 EN 301 908-13 (LTE) Clause- 4.2.6.1	TEC ER No. TEC23732408

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**SCOPE OF DESIGNATION**  
**(ANNEXURE)**

**Laboratory Name: M/s Delhi Test House, Sonipat**  
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>End Point Device for Environmental Monitoring</b>	<b>Interface: LTE or LTE-A</b> Receiver In-Band Blocking 3GPP TS 36.521-1 Clause- 7.6.1 EN 301 908-13 (LTE) Clause- 4.2.7.1	TEC ER No. TEC23732408
		<b>Interface: WCDMA or HSPA</b> Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause- 5.2 EN 301 908-2 (UMTS) Clause- 4.2.2.1	TEC ER No. TEC23732408
		Transmitter Spectrum Emissions Mask 3GPP TS 34.121-1 Clause- 5.9 EN 301 908-2 (UMTS) Clause- 4.2.3.1	TEC ER No. TEC23732408
		Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause- 5.11 EN 301 908-2 (UMTS) Clause- 4.2.4	TEC ER No. TEC23732408
		Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC23732408

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>End Point Device for Environmental Monitoring</b>	<b>Interface: WCDMA or HSPA</b> Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause- 5.4.3 EN 301 908-2 (UMTS) Clause- 4.2.5.1	TEC ER No. TEC23732408
		Receiver Reference Sensitivity Level 3GPP TS 34.121-1 Clause- 6.2 EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC23732408
		Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 34.121-1 Clause- 6.4 EN 301 908-2 (UMTS) Clause- 4.2.6	TEC ER No. TEC23732408
		Receiver In-Band Blocking 3GPP TS 34.121-1 Clause- 6.5.2.1 EN 301 908-2 (UMTS) Clause- 4.2.7	TEC ER No. TEC23732408
15.	<b>PON Family of Broadband Equipment</b>	<b>Parameters Linked with Product Variant</b> Over Voltage Current Protection on 2W ITU-T K.21	TEC ER No. TEC14762407
		<b>Interface: 2 Wire</b> Insulation Test for 2 wire Int. ETSI EN 300 001	TEC ER No. TEC14762407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>PON Family of Broadband Equipment</b>	<b>Interface: Wi-Fi</b> RF Output Power ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.2	TEC ER No. TEC14762407
		Power Spectral Density ETSI EN 300 328 V2.1.1.(2016-11) Clause- 5.4.3	TEC ER No. TEC14762407
		Duty cycle, Tx-sequence, Tx-gap (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.2	TEC ER No. TEC14762407
		Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.2	TEC ER No. TEC14762407
		Occupied Channel Bandwidth ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.7	TEC ER No. TEC14762407
		Transmitter Unwanted Emissions in the Out-of- Band Domain ETSI EN 300 328 V2.1.1(2016-11) Clause- 5.4.8	TEC ER No. TEC14762407

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	<b>PON Family of Broadband Equipment</b>	<b>Interface: Wi-Fi</b> Transmitter Unwanted Emissions in the Spurious Domain (Conductive Testing only) ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.9	TEC ER No. TEC14762407
		Receiver Spurious Emission (Conductive Testing only) ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.10	TEC ER No. TEC14762407
		Receiver Blocking ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.11	TEC ER No. TEC14762407
		Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.2	TEC ER No. TEC14762407
		Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.3	TEC ER No. TEC14762407
		Power Spectral Density ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.4	TEC ER No. TEC14762407

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**Last Amended on: ----**

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>PON Family of Broadband Equipment</b>	<b>Interface: Wi-Fi</b>	Transmitter Unwanted Emissions Outside 5 GHz RLAN Bands (Conductive Testing only) ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.5	TEC ER No. TEC14762407
			Transmitter Unwanted Emissions within 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.6	TEC ER No. TEC14762407
			Adaptivity ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.9	TEC ER No. TEC14762407
			Receiver Blocking ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.10	TEC ER No. TEC14762407
			Maximum Conducted Output Power FCC CFR 47 Subpart C Cl. 15.247(b), Cl. 15.407(a)	TEC ER No. TEC14762407
			6 dB Bandwidth FCC CFR 47 Subpart C Cl. 15.247(b)	TEC ER No. TEC14762407

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**SCOPE OF DESIGNATION**  
**(ANNEXURE)**

**Laboratory Name: M/s Delhi Test House, Sonipat**  
**Plot No. 65, Phase-IV, Sector-57, HSIDC Industrial Area,**  
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>PON Family of Broadband Equipment</b>	<b>Interface: Wi-Fi</b>	Maximum Power Spectral Density FCC CFR 47 Subpart C Cl. 15.247(e), FCC CFR 47 Subpart E Cl. 15.407 (a)	TEC ER No. TEC14762407
			Band Edge Compliance (Emissions in the Non Restricted Frequency Band) FCC CFR 47 Subpart C Cl. 15.247(d)	TEC ER No. TEC14762407
			Bandwidth Occupancy (20 db Bandwidth) FCC CFR 47 Subpart C Cl.15.247(a)(1)/15.215 (c)	TEC ER No. TEC14762407
			Number of Hopping Channel FCC CFR 47Subpart C Cl. 15.247 (a)(1)(ii)	TEC ER No. TEC14762407
			Carrier Frequency Separation FCC CFR 47Subpart C Cl. 15.247(a)(1)	TEC ER No. TEC14762407
			EIRP for WIFI Interface Annex G-2.16 and G-2.17	TEC ER No. TEC14762407
			Frequency for Wi-Fi Equipment Annex G-1.7	TEC ER No. TEC14762407
16.	<b>DSL Equipment's</b>	<b>Parameters Linked with Product Variant</b>	Over Voltage Current Protection on 2W ITU-T K.21	TEC ER No. TEC13752407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	DSL Equipment's	<b>Interface: 2 Wire</b>	Insulation Test for 2 wire Int. ETSI EN 300 001 TEC ER No. TEC13752407	
		<b>Interface: Wi-Fi</b>	RF Output Power ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.2	TEC ER No. TEC13752407
			Power Spectral Density ETSI EN 300 328 V2.1.1. (2016-11) Clause- 5.4.3	TEC ER No. TEC13752407
			Duty cycle, Tx-sequence, Tx-gap (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.2	TEC ER No. TEC13752407
			Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.2	TEC ER No. TEC13752407
			Occupied Channel Bandwidth ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.7	TEC ER No. TEC13752407

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	DSL Equipment's	<b>Interface: Wi-Fi</b>	Transmitter Unwanted Emissions in the Out-of-Band Domain ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.8	TEC ER No. TEC13752407
			Transmitter Unwanted Emissions in the Spurious Domain (Conductive Testing only) ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.9	TEC ER No. TEC13752407
			Receiver Spurious Emission (Conductive Testing only) ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.10	TEC ER No. TEC13752407
			Receiver Blocking ETSI EN 300 328 V2.1.1 (2016-11) Clause- 5.4.11	TEC ER No. TEC13752407
			Carrier Frequencies ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.2	TEC ER No. TEC13752407
			Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.3	TEC ER No. TEC13752407

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## SCOPE OF DESIGNATION (ANNEXURE)

**Laboratory Name: M/s Delhi Test House, Sonipat**  
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>DSL Equipment's</b>	<b>Interface: Wi-Fi</b>	Power Spectral Density ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.4	TEC ER No. TEC13752407
			Transmitter Unwanted Emissions Outside 5 GHz RLAN Bands (conductive testing only) ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.5	TEC ER No. TEC13752407
			Transmitter Unwanted Emissions within 5 GHz RLAN Bands ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.6	TEC ER No. TEC13752407
			Adaptivity ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.9	TEC ER No. TEC13752407
			Receiver Blocking ETSI EN 301 893 V2.1.1 (2017-05) Clause- 5.4.10	TEC ER No. TEC13752407
			Maximum Conducted Output Power FCC CFR 47 Subpart C Cl. 15.247(b), Cl. 15.407(a)	TEC ER No. TEC13752407

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## SCOPE OF DESIGNATION

### (ANNEXURE)

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	<b>DSL Equipment's</b>	<b>Interface: Wi-Fi</b>	6 dB Bandwidth FCC CFR 47 Subpart C Cl. 15.247(b)	TEC ER No. TEC13752407
			Maximum Power Spectral Density FCC CFR 47 Subpart C Cl. 15.247(e), FCC CFR 47 Subpart E Cl. 15.407 (a)	TEC ER No. TEC13752407
			Band Edge Compliance (Emissions in the Non Restricted Frequency Band) FCC CFR 47 Subpart C Cl. 15.247(d)	TEC ER No. TEC13752407
			Bandwidth Occupancy (20 db Bandwidth) FCC CFR 47 Subpart C Cl.15.247(a)(1)/15.215 (c)	TEC ER No. TEC13752407
			Number of Hopping Channel FCC CFR 47Subpart C Cl. 15.247 (a)(1)(ii)	TEC ER No. TEC13752407
			Carrier Frequency Separation FCC CFR 47Subpart C Cl. 15.247(a)(1)	TEC ER No. TEC13752407
			EIRP for Wi-Fi Interface Annex G-2.16 and G-2.17	TEC ER No. TEC13752407
			Frequency for Wi-Fi Equipment Annex G-1.7	TEC ER No. TEC13752407

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<b>Sl. No.</b>	<b>Telecom Equipment/Product</b>	<b>Test Parameter or Type of Testing</b>		<b>Standard/ Specification</b>
17.	<b>Media Gateway</b>	<b>Interface: 2 Wire</b>	Insulation Test for 2 wire Int. ETSI EN 300 001	TEC ER No. TEC66492401
18.	<b>Router</b>	<b>Interface: 2 Wire</b>	Insulation Test for 2 wire Int. ETSI EN 300 001	TEC ER No. TEC37682410
19.	<b>Transmission Terminal Equipment-1</b>	<b>Interface: 2 Wire</b>	Insulation Test for 2 wire Int. ETSI EN 300 001	TEC ER No. TEC78832401

**AD (CA), TEC**

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