



**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- 131 028**

In the field of Testing

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

Issue Date: 01/11/2021

Valid Until: 31/10/2024

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)

Signed for and on behalf of TEC


Prasanth Kumar
Deputy Director General (MRA)
For Designating Authority
TEC

Certificate No: TEC/MRA/CAB/IND-D/78 dated 01/11/2021 issued to
M/s Delhi Test House
Plot No. 65, Phase-IV, Sector-57, HSIDC Industrial Area,
Behind Parnami Hospital, Kundli, Sonipat- 131 028



Validity: 01/11/2021 to 31/10/2024

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 2 NO. TEC/DES-01/02.DEC.2017.

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.





SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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Behind Parnami Hospital, Kundli, Sonipat- 131 028


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


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Validity: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
1.	EMI/EMC Testing for Telecom Equipment	Conducted Emission CISPR 22, CISPR 32 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
		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
		Voltage dips and interruptions IEC 61000-4-11	TEC/SD/DD/EMC-221/05/OCT-16
		Radiated Emission CISPR 22, CISPR 32, CISPR 14-1	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 radiated RF IEC 61000-4-3	TEC/SD/DD/EMC-221/05/OCT-16


Director (MRA), TEC


AD (MRA), TEC

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
2.	Conferencing Equipment	Parameters Linked with Product Variant	Voice Conference Verification Over Voltage Current Protection on 2W ITU-T K.21	TEC ER No. TEC12661911 TEC ER No. TEC12661911
		Interface: 2 Wire	Insulation Test for 2 wire Int. ETSI EN 300 001	TEC ER No. TEC12661911
		3.	Cordless Telephone	Parameters Linked with Product Variant


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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6.	Point of Sale Devices	Parameters Linked with Product Variant	Over Voltage Current Protection on 2W ITU-T K.21	TEC ER No. TEC17672105
		Interface: 2 Wire	Insulation Test for 2 wire Int. ETSI EN 300 001	TEC ER No. TEC17672105
		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. TEC17672105
			Transmitter Maximum output power 3GPP TS 51 010-1 Clause 13.16.2 EN 301 511 (GSM) Clause 4.2.10	TEC ER No. TEC17672105


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Point of Sale Devices	Interface : GSM or GPRS or EDGE	Output RF Spectrum 3GPP TS 51 010-1 Clause 13.4 EN 301 511 (GSM) Clause 4.2.6	TEC ER No. TEC17672105
			Output RF Spectrum 3GPP TS 51 010-1 Clause 13.16.3 EN 301 511 (GSM) Clause 4.2.11	TEC ER No. TEC17672105
			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. TEC17672105
			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. TEC17672105



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Point of Sale Devices	Interface : GSM or GPRS or EDGE	Frequency Error and Phase error 3GPP TS 51 010-1 Clause 13.1 EN 301 511 (GSM) Clause 4.2.1	TEC ER No. TEC17672105
		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. TEC17672105	
		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. TEC17672105	



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Point of Sale Devices	Interface : GSM or GPRS or EDGE	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. TEC17672105
			Receiver blocking 3GPP TS 51 010-1 Clause 14.7.1 EN 301 511 (GSM) Clause 4.2.20	TEC ER No. TEC17672105
		Interface : LTE or LTE-A	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. TEC17672105
			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. TEC17672105

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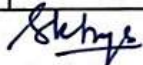
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
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Point of Sale Devices	Interface : LTE or LTE-A	Spurious emissions 3GPP TS 36.521-1 Clauses 6.6.3.1, 6.6.3.2, 6.6.3.3 EN 301 908-13 (LTE) Clause 4.2.4	TEC ER No. TEC17672105
		Receiver spurious emission 3GPP TS 36.521-1 Clause 7.9 EN 301 908-13 (LTE) Clause 4.2.10	TEC ER No. TEC17672105	
		Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause 7.3 EN 301 908-13 (LTE) Clause 4.2.12	TEC ER No. TEC17672105	
		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. TEC17672105	


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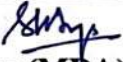
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Point of Sale Devices	Interface : LTE or LTE-A	Receiver In-band blocking 3GPP TS 36.521-1 Clause 7.6.1 EN 301 908-13 (LTE) Clause 4.2.7.1	TEC ER No. TEC17672105
		Interface : WCDMA or HSPA	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. TEC17672105
			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. TEC17672105
			Transmitter spurious emissions 3GPP TS 34.121-1 Clause 5.11 EN 301 908-2 (UMTS) Clause 4.2.4	TEC ER No. TEC17672105


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	Point of Sale Devices	Interface : WCDMA or HSPA	Receiver spurious emission 3GPP TS 34.121-1 Clause 6.8 EN 301 908-2 (UMTS) Clause 4.2.10	TEC ER No. TEC17672105
			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. TEC17672105
			Receiver Reference sensitivity level 3GPP TS 34.121-1 Clause 6.2 EN 301 908-2 (UMTS) Clause 4.2.13	TEC ER No. TEC17672105
			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. TEC17672105

[Signature]
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	Point of Sale Devices	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. TEC17672105
		Interface : Wi-Fi	RF Output Power ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2	TEC ER No. TEC17672105
			Power Spectral Density ETSI EN 300 328 V2.1.1.(2016-11) Clause 5.4.3	TEC ER No. TEC17672105
			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. TEC17672105


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Point of Sale Devices	Interface : Wi-Fi	Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2	TEC ER No. TEC17672105
		Occupied Channel Bandwidth	ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.7	TEC ER No. TEC17672105
		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. TEC17672105
		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. TEC17672105


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Point of Sale Devices	Interface : Wi-Fi	Receiver Spurious Emission(conductive testing only) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.10	TEC ER No. TEC17672105
		Receiver Blocking ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.11	TEC ER No. TEC17672105	
		Carrier frequencies ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.2	TEC ER No. TEC17672105	
		Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.3	TEC ER No. TEC17672105	
		Power Spectral Density ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.4	TEC ER No. TEC17672105	


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Point of Sale Devices	Interface : Wi-Fi 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. TEC17672105
		Transmitter unwanted emissions within 5 GHz RLAN bands ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.6	TEC ER No. TEC17672105
		Adaptivity ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.9	TEC ER No. TEC17672105
		Receiver Blocking ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.10	TEC ER No. TEC17672105


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Point of Sale Devices	Interface : Wi-Fi	
		Maximum conducted output power FCC CFR 47 Subpart C Cl. 15.247(b), Cl. 15.407 (a)	TEC ER No. TEC17672105
		6 dB Bandwidth FCC CFR 47 Subpart C Cl. 15.247(b)	TEC ER No. TEC17672105
		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. TEC17672105
		Band Edge Compliance (Emissions in the Non Restricted Frequency Band) FCC CFR 47 Subpart C Cl. 15.247(d)	TEC ER No. TEC17672105



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Point of Sale Devices	Interface : Wi-Fi	
		Bandwidth Occupancy (20db Bandwidth)	TEC ER No. TEC17672105
		FCC CFR 47 Subpart C Cl.15.247(a)(1)/ 15.215 (c)	
		Number of hopping channel	TEC ER No. TEC17672105
		FCC CFR 47 Subpart C Cl. 15.247 (a)(1)(ii)	
		Carrier frequency separation	TEC ER No. TEC17672105
	FCC CFR 47 Subpart C Cl. 15.247(a)(1)		
	EIRP for WIFI Interface Annex G-2.16 and G-2.17	TEC ER No. TEC17672105	
	Frequency for Wi-Fi equipment Annex G-1.7	TEC ER No. TEC17672105	


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Point of Sale Devices	Interface : Bluetooth Low Energy (BLE)	EIRP for BLE Interface ETSI EN 300 328 V2.1.1.(2016-11) WPC GSR 45(E) TEC ER No. TEC17672105
			Frequency of Operation for BLE Interface WPC GSR 45(E) TEC ER No. TEC17672105
7.	2-Wire Telephone Equipment	Parameters Linked with Product Variant	Over Voltage Current Protection on 2W ITU-T K.21 TEC ER No. TEC18352006
		Interface: 2 Wire	Insulation Test for 2 wire Int. ETSI EN 300 001 TEC ER No. TEC18352006
8.	Feedback device	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. TEC23232106



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Laboratory Name: M/s Delhi Test House,
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Behind Parnami Hospital, Kundli, Sonipat- 131 028

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

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Validity:01/11/2021 to 31/10/2024

Last Amended on: ___

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Feedback device	Interface : GSM or GPRS or EDGE	Transmitter Maximum output power 3GPP TS 51 010-1 Clause 13.16.2 EN 301 511 (GSM) Clause 4.2.10	TEC ER No. TEC23232106
		Output RF Spectrum	3GPP TS 51 010-1 Clause 13.4 EN 301 511 (GSM) Clause 4.2.6	TEC ER No. TEC23232106
		Output RF Spectrum	3GPP TS 51 010-1 Clause 13.16.3 EN 301 511 (GSM) Clause 4.2.11	TEC ER No. TEC23232106
		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. TEC23232106

Signature
Director (MRA), TEC

Signature
AD (MRA), TEC

***The validity of Certificate is up to 31/10/2024 or the continued validity of NABL Accreditation, whichever is earlier.**



SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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Behind Parnami Hospital, Kundli, Sonipat- 131 028

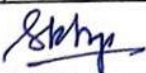
Certificate Number: TEC/MRA/CAB/IND-D/78

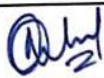
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Feedback device	Interface : GSM or GPRS or EDGE	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. TEC23232106
		Frequency Error and Phase error 3GPP TS 51 010-1 Clause 13.1 EN 301 511 (GSM) Clause 4.2.1	TEC ER No. TEC23232106	
		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. TEC23232106	


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AD (MRA), TEC

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SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	Feedback device	Interface : GSM or GPRS or EDGE	Reference sensitivity level (speech channels) 3GPP TS 51 010-1 Clause 14.2.1	TEC ER No. TEC23232106
			EN 301 511 (GSM) Clause 4.2.42	
			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. TEC23232106
		Receiver blocking 3GPP TS 51 010-1 Clause 14.7.1 EN 301 511 (GSM) Clause 4.2.20	TEC ER No. TEC23232106	
		Interface : LTE or LTE-A	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. TEC23232106


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SCOPE OF DESIGNATION
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Laboratory Name: M/s Delhi Test House,
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Feedback device	Interface : LTE or LTE-A	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. TEC23232106
		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. TEC23232106	
		Receiver spurious emission 3GPP TS 36.521-1 Clause 7.9 EN 301 908-13 (LTE) Clause 4.2.10	TEC ER No. TEC23232106	
		Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause 7.3 EN 301 908-13 (LTE) Clause 4.2.12	TEC ER No. TEC23232106	


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SCOPE OF DESIGNATION
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 Behind Parnami Hospital, Kundli, Sonipat- 131 028

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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Feedback device	Interface : LTE or LTE-A	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. TEC23232106
			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. TEC23232106
		Interface : WCDMA or HSPA	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. TEC23232106
			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. TEC23232106

[Signature]
 Director (MRA), TEC

[Signature]
 AD (MRA), TEC

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SCOPE OF DESIGNATION
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Feedback device	Interface : WCDMA or HSPA	Transmitter spurious emissions 3GPP TS 34.121-1 Clause 5.11 EN 301 908-2 (UMTS) Clause 4.2.4	TEC ER No. TEC23232106
		Receiver spurious emission 3GPP TS 34.121-1 Clause 6.8 EN 301 908-2 (UMTS) Clause 4.2.10	TEC ER No. TEC23232106	
		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. TEC23232106	
		Receiver Reference sensitivity level 3GPP TS 34.121-1 Clause 6.2 EN 301 908-2 (UMTS) Clause 4.2.13	TEC ER No. TEC23232106	


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Feedback device	Interface : WCDMA or HSPA	Receiver Adjacent Channel Selectivity(ACS) 3GPP TS 34.121-1 Clause 6.4 EN 301 908-2 (UMTS) Clause 4.2.6 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. TEC23232106 TEC ER No. TEC23232106
9.	IoT Gateway	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. TEC24492106


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SCOPE OF DESIGNATION
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface : GSM or GPRS or EDGE Transmitter Maximum output power 3GPP TS 51 010-1 Clause 13.16.2 EN 301 511 (GSM) Clause 4.2.10	TEC ER No. TEC24492106
		Output RF Spectrum 3GPP TS 51 010-1 Clause 13.4 EN 301 511 (GSM) Clause 4.2.6	TEC ER No. TEC24492106
		Output RF Spectrum 3GPP TS 51 010-1 Clause 13.16.3 EN 301 511 (GSM) Clause 4.2.11	TEC ER No. TEC24492106
		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. TEC24492106


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IoT Gateway	Interface : GSM or GPRS or EDGE 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. TEC24492106
		Frequency Error and Phase error 3GPP TS 51 010-1 Clause 13.1 EN 301 511 (GSM) Clause 4.2.1	TEC ER No. TEC24492106
		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. TEC24492106


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface : GSM or GPRS or EDGE	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. TEC24492106
			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. TEC24492106
			Receiver blocking 3GPP TS 51 010-1 Clause 14.7.1 EN 301 511 (GSM) Clause 4.2.20	TEC ER No. TEC24492106
		Interface : LTE or LTE-A	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. TEC24492106



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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface : LTE or LTE-A	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. TEC24492106
			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. TEC24492106
			Receiver spurious emission 3GPP TS 36.521-1 Clause 7.9 EN 301 908-13 (LTE) Clause 4.2.10	TEC ER No. TEC24492106
			Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause 7.3 EN 301 908-13 (LTE) Clause 4.2.12	TEC ER No. TEC24492106


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Last Amended on: _____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface : LTE or LTE-A	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. TEC24492106
			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. TEC24492106
		Interface : WCDMA or HSPA	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. TEC24492106
			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. TEC24492106


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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface : WCDMA or HSPA	Transmitter spurious emissions 3GPP TS 34.121-1 Clause 5.11 EN 301 908-2 (UMTS) Clause 4.2.4	TEC ER No. TEC24492106
		Receiver spurious emission 3GPP TS 34.121-1 Clause 6.8 EN 301 908-2 (UMTS) Clause 4.2.10	TEC ER No. TEC24492106	
		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. TEC24492106	
		Receiver Reference sensitivity level 3GPP TS 34.121-1 Clause 6.2 EN 301 908-2 (UMTS) Clause 4.2.13	TEC ER No. TEC24492106	


Director (MRA), TEC


AD (MRA), TEC

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Laboratory Name: M/s Delhi Test House,
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface : WCDMA or HSPA	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. TEC24492106
			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. TEC24492106
		Interface : Wi-Fi	RF Output Power ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2	TEC ER No. TEC24492106
			Power Spectral Density ETSI EN 300 328 V2.1.1.(2016-11) Clause 5.4.3	TEC ER No. TEC24492106


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SCOPE OF DESIGNATION
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Laboratory Name: M/s Delhi Test House,
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway	Interface : Wi-Fi	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. TEC24492106
			Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2	TEC ER No. TEC24492106
			Occupied Channel Bandwidth ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.7	TEC ER No. TEC24492106
			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. TEC24492106


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	IoT Gateway	Interface : Wi-Fi	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. TEC24492106
			Receiver Spurious Emission(conductive testing only) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.10	TEC ER No. TEC24492106
			Receiver Blocking ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.11	TEC ER No. TEC24492106
			Carrier frequencies ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.2	TEC ER No. TEC24492106



Director (MRA), TEC



AD (MRA), TEC

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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IoT Gateway	Interface : Wi-Fi	Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.3	TEC ER No. TEC24492106
		Power Spectral Density ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.4	TEC ER No. TEC24492106
		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. TEC24492106
		Transmitter unwanted emissions within 5 GHz RLAN bands ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.6	TEC ER No. TEC24492106


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface : Wi-Fi	Adaptivity ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.9	TEC ER No. TEC24492106
			Receiver Blocking ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.10	TEC ER No. TEC24492106
			Maximum conducted output power FCC CFR 47 Subpart C Cl. 15.247(b), Cl. 15.407(a)	TEC ER No. TEC24492106
			6 dB Bandwidth FCC CFR 47 Subpart C Cl. 15.247(b)	TEC ER No. TEC24492106
			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. TEC24492106


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface : Wi-Fi	Band Edge Compliance (Emissions in the Non Restricted Frequency Band) FCC CFR 47 Subpart C Cl. 15.247(d)	TEC ER No. TEC24492106
		Bandwidth Occupancy (20db Bandwidth)	FCC CFR 47 Subpart C Cl.15.247(a)(1)/ 15.215 (c)	TEC ER No. TEC24492106
		Number of hopping channel	FCC CFR 47 Subpart C Cl. 15.247 (a)(1)(ii)	TEC ER No. TEC24492106
		Carrier frequency separation	FCC CFR 47 Subpart C Cl. 15.247(a)(1)	TEC ER No. TEC24492106


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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface : Wi-Fi	EIRP for WIFI Interface Annex G-2.16 and G-2.17	TEC ER No. TEC24492106
			Frequency for Wi-Fi equipment Annex G-1.7	TEC ER No. TEC24492106
		Interface : Bluetooth Low Energy (BLE)	EIRP for BLE Interface ETSI EN 300 328 V2.1.1.(2016-11) WPC GSR 45(E)	TEC ER No. TEC24492106
			Frequency of Operation for BLE Interface WPC GSR 45(E)	TEC ER No. TEC24492106
10.	Smart Camera	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. TEC28822105


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Camera	Interface : GSM or GPRS or EDGE	Transmitter Maximum output power 3GPP TS 51 010-1 Clause 13.16.2 EN 301 511 (GSM) Clause 4.2.10	TEC ER No. TEC28822105
			Output RF Spectrum 3GPP TS 51 010-1 Clause 13.4 EN 301 511 (GSM) Clause 4.2.6	TEC ER No. TEC28822105
			Output RF Spectrum 3GPP TS 51 010-1 Clause 13.16.3 EN 301 511 (GSM) Clause 4.2.11	TEC ER No. TEC28822105
			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. TEC28822105

(Signature)
Director (MRA), TEC

(Signature)
AD (MRA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Camera	Interface : GSM or GPRS or EDGE 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. TEC28822105
		Frequency Error and Phase error 3GPP TS 51 010-1 Clause 13.1 EN 301 511 (GSM) Clause 4.2.1	TEC ER No. TEC28822105
		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. TEC28822105


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

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

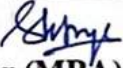
Certificate Number: TEC/MRA/CAB/IND-D/78

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Validity: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Camera	Interface : GSM or GPRS or EDGE	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. TEC28822105
			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. TEC28822105
			Receiver blocking 3GPP TS 51 010-1 Clause 14.7.1 EN 301 511 (GSM) Clause 4.2.20	TEC ER No. TEC28822105
		Interface : LTE or LTE-A	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. TEC28822105


 Director (MRA), TEC


 AD (MRA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Camera	Interface : LTE or LTE-A	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. TEC28822105
		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. TEC28822105	
		Receiver spurious emission 3GPP TS 36.521-1 Clause 7.9 EN 301 908-13 (LTE) Clause 4.2.10	TEC ER No. TEC28822105	
		Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause 7.3 EN 301 908-13 (LTE) Clause 4.2.12	TEC ER No. TEC28822105	


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION (ANNEXURE)

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

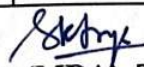
Certificate Number: TEC/MRA/CAB/IND-D/78

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Validity: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Camera	Interface : LTE or LTE-A	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. TEC28822105
			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. TEC28822105
		Interface : WCDMA or HSPA	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. TEC28822105
			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. TEC28822105


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Camera	Interface : WCDMA or HSPA	Transmitter spurious emissions 3GPP TS 34.121-1 Clause 5.11 EN 301 908-2 (UMTS) Clause 4.2.4	TEC ER No. TEC28822105
			Receiver spurious emission 3GPP TS 34.121-1 Clause 6.8 EN 301 908-2 (UMTS) Clause 4.2.10	TEC ER No. TEC28822105
			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. TEC28822105
			Receiver Reference sensitivity level 3GPP TS 34.121-1 Clause 6.2 EN 301 908-2 (UMTS) Clause 4.2.13	TEC ER No. TEC28822105


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Camera	Interface : WCDMA or HSPA	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. TEC28822105
			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. TEC28822105
		Interface : Wi-Fi	RF Output Power ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2	TEC ER No. TEC28822105
			Power Spectral Density ETSI EN 300 328 V2.1.1.(2016-11) Clause 5.4.3	TEC ER No. TEC28822105



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SCOPE OF DESIGNATION
(ANNEXURE)

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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:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Camera	Interface : Wi-Fi	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. TEC28822105
		Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2	TEC ER No. TEC28822105	
		Occupied Channel Bandwidth ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.7	TEC ER No. TEC28822105	
		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. TEC28822105	


Director (MRA), TEC


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

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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Camera	Interface : Wi-Fi	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. TEC28822105
		Receiver Spurious Emission(conductive testing only) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.10	TEC ER No. TEC28822105	
		Receiver Blocking ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.11	TEC ER No. TEC28822105	
		Carrier frequencies ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.2	TEC ER No. TEC28822105	


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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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Behind Parnami Hospital, Kundli, Sonipat- 131 028

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

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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Camera	Interface : Wi-Fi	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. TEC28822105
		Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2	TEC ER No. TEC28822105	
		Occupied Channel Bandwidth ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.7	TEC ER No. TEC28822105	
		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. TEC28822105	



Director (MRA), TEC



AD (MRA), TEC

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Behind Parnami Hospital, Kundli, Sonipat- 131 028

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

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Validity: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Camera	Interface : Wi-Fi	Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.3	TEC ER No. TEC28822105
		Power Spectral Density ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.4	TEC ER No. TEC28822105	
		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. TEC28822105	
		Transmitter unwanted emissions within 5 GHz RLAN bands ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.6	TEC ER No. TEC28822105	


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION (ANNEXURE)

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

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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Camera	Interface : Wi-Fi	Adaptivity ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.9	TEC ER No. TEC28822105
		Receiver Blocking ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.10	TEC ER No. TEC28822105	
		Maximum conducted output power FCC CFR 47 Subpart C Cl. 15.247(b), Cl. 15.407(a)	TEC ER No. TEC28822105	
		6 dB Bandwidth FCC CFR 47 Subpart C Cl. 15.247(b)	TEC ER No. TEC28822105	
		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. TEC28822105	



Director (MRA), TEC



AD (MRA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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 Behind Parnami Hospital, Kundli, Sonipat- 131 028

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

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Validity: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Camera	Interface : Wi-Fi	Band Edge Compliance (Emissions in the Non Restricted Frequency Band) FCC CFR 47 Subpart C Cl. 15.247(d)	TEC ER No. TEC28822105
			Bandwidth Occupancy (20db Bandwidth) FCC CFR 47 Subpart C Cl.15.247(a)(1)/ 15.215 (c)	TEC ER No. TEC28822105
			Number of hopping channel FCC CFR 47 Subpart C Cl. 15.247 (a)(1)(ii)	TEC ER No. TEC28822105
			Carrier frequency separation FCC CFR 47 Subpart C Cl. 15.247(a)(1)	TEC ER No. TEC28822105


 Director (MRA), TEC


 AD (MRA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

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

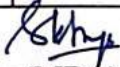
Certificate Number: TEC/MRA/CAB/IND-D/78

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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Camera	Interface : Wi-Fi	EIRP for WIFI Interface Annex G-2.16 and G-2.17	TEC ER No. TEC28822105
			Frequency for Wi-Fi equipment Annex G-1.7	TEC ER No. TEC28822105
		Interface : Bluetooth Low Energy (BLE)	EIRP for BLE Interface ETSI EN 300 328 V2.1.1.(2016-11) WPC GSR 45(E)	TEC ER No. TEC28822105
			Frequency of Operation for BLE Interface WPC GSR 45(E)	TEC ER No. TEC28822105
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. TEC28362106


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION (ANNEXURE)

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

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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Electricity Meter	Interface : GSM or GPRS or EDGE	Transmitter Maximum output power 3GPP TS 51 010-1 Clause 13.16.2 EN 301 511 (GSM) Clause 4.2.10	TEC ER No. TEC28362106
			Output RF Spectrum 3GPP TS 51 010-1 Clause 13.4 EN 301 511 (GSM) Clause 4.2.6	TEC ER No. TEC28362106
			Output RF Spectrum 3GPP TS 51 010-1 Clause 13.16.3 EN 301 511 (GSM) Clause 4.2.11	TEC ER No. TEC28362106
			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. TEC28362106


 Director (MRA), TEC


 AD (MRA), TEC

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Laboratory Name: M/s Delhi Test House,
Plot No. 65, Phase-IV, Sector-57, HSIDC Industrial Area,
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Certificate Number: TEC/MRA/CAB/IND-D/78

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Validity: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Electricity Meter	Interface : GSM or GPRS or EDGE 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. TEC28362106
		Frequency Error and Phase error 3GPP TS 51 010-1 Clause 13.1 EN 301 511 (GSM) Clause 4.2.1	TEC ER No. TEC28362106
		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. TEC28362106



Director (MRA), TEC



AD (MRA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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Certificate Number: TEC/MRA/CAB/IND-D/78

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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Electricity Meter	Interface : GSM or GPRS or EDGE	Reference sensitivity level (speech channels) 3GPP TS 51 010-1 Clause 14.2.1	TEC ER No. TEC28362106
			EN 301 511 (GSM) Clause 4.2.42	
			Adjacent Channel Rejection (speech channels) 3GPP TS 51 010-1 Clause 14.5.1 EN 301 511 (GSM) Clause 4.2.38	
		Receiver blocking 3GPP TS 51 010-1 Clause 14.7.1 EN 301 511 (GSM) Clause 4.2.20	TEC ER No. TEC28362106	
		Interface : LTE or LTE-A	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. TEC28362106

K. Singh
Director (MRA), TEC

[Signature]
AD (MRA), TEC

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

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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Electricity Meter	Interface : LTE or LTE-A	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. TEC28362106
			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. TEC28362106
			Receiver spurious emission 3GPP TS 36.521-1 Clause 7.9 EN 301 908-13 (LTE) Clause 4.2.10	TEC ER No. TEC28362106
			Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause 7.3 EN 301 908-13 (LTE) Clause 4.2.12	TEC ER No. TEC28362106


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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Validity: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Electricity Meter	Interface : LTE or LTE-A	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. TEC28362106
			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. TEC28362106
		Interface : WCDMA or HSPA	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. TEC28362106
			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. TEC28362106

SKM
Director (MRA), TEC

AD
AD (MRA), TEC

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SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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Behind Parnami Hospital, Kundli, Sonipat- 131 028

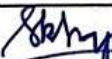
Certificate Number: TEC/MRA/CAB/IND-D/78

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Validity: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Electricity Meter	Interface : WCDMA or HSPA	Transmitter spurious emissions 3GPP TS 34.121-1 Clause 5.11 EN 301 908-2 (UMTS) Clause 4.2.4	TEC ER No. TEC28362106
			Receiver spurious emission 3GPP TS 34.121-1 Clause 6.8 EN 301 908-2 (UMTS) Clause 4.2.10	TEC ER No. TEC28362106
			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. TEC28362106
			Receiver Reference sensitivity level 3GPP TS 34.121-1 Clause 6.2 EN 301 908-2 (UMTS) Clause 4.2.13	TEC ER No. TEC28362106


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

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

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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Electricity Meter	Interface : WCDMA or HSPA	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. TEC28362106
			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. TEC28362106
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. TEC28982110
			Transmitter Maximum output power 3GPP TS 51 010-1 Clause 13.16.2 EN 301 511 (GSM) Clause 4.2.10	TEC ER No. TEC28982110


 Director (MRA), TEC


 AD (MRA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface : GSM or GPRS or EDGE	Output RF Spectrum 3GPP TS 51 010-1 Clause 13.4 EN 301 511 (GSM) Clause 4.2.6	TEC ER No. TEC28982110
		Output RF Spectrum 3GPP TS 51 010-1 Clause 13.16.3 EN 301 511 (GSM) Clause 4.2.11	TEC ER No. TEC28982110	
		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. TEC28982110	
		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. TEC28982110	


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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 Behind Parnami Hospital, Kundli, Sonipat- 131 028

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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	Smart Watch	Interface : GSM or GPRS or EDGE	Frequency Error and Phase error 3GPP TS 51 010-1 Clause 13.1 EN 301 511 (GSM) Clause 4.2.1	TEC ER No. TEC28982110
			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. TEC28982110
			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. TEC28982110


 Director (MRA), TEC


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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	Smart Watch	Interface : GSM or GPRS or EDGE	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. TEC28982110
			Receiver blocking 3GPP TS 51 010-1 Clause 14.7.1 EN 301 511 (GSM) Clause 4.2.20	TEC ER No. TEC28982110
		Interface : LTE or LTE-A	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. TEC28982110
			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. TEC28982110


Director (MRA), TEC


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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	Smart Watch	Interface : LTE or LTE-A	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. TEC28982110
			Receiver spurious emission 3GPP TS 36.521-1 Clause 7.9 EN 301 908-13 (LTE) Clause 4.2.10	TEC ER No. TEC28982110
			Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause 7.3 EN 301 908-13 (LTE) Clause 4.2.12	TEC ER No. TEC28982110
			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. TEC28982110


Director (MRA), TEC


AD (MRA), TEC

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

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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	Smart Watch	Interface : LTE or LTE-A	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. TEC28982110
		Interface : WCDMA or HSPA	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. TEC28982110
			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. TEC28982110
			Transmitter spurious emissions 3GPP TS 34.121-1 Clause 5.11 EN 301 908-2 (UMTS) Clause 4.2.4	TEC ER No. TEC28982110


Director (MRA), TEC


AD (MRA), TEC

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

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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	Smart Watch	Interface : WCDMA or HSPA	Receiver spurious emission 3GPP TS 34.121-1 Clause 6.8 EN 301 908-2 (UMTS) Clause 4.2.10	TEC ER No. TEC28982110
			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. TEC28982110
			Receiver Reference sensitivity level 3GPP TS 34.121-1 Clause 6.2 EN 301 908-2 (UMTS) Clause 4.2.13	TEC ER No. TEC28982110
			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. TEC28982110


Director (MRA), TEC


AD (MRA), TEC

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Laboratory Name: M/s Delhi Test House,
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Behind Parnami Hospital, Kundli, Sonipat- 131 028

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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	Smart Watch	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. TEC28982110
		Interface : Wi-Fi	RF Output Power	TEC ER No. TEC28982110
			Power Spectral Density	TEC ER No. TEC28982110
			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. TEC28982110



Director (MRA), TEC



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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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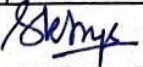
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface : Wi-Fi	Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2	TEC ER No. TEC28982110
		Occupied Channel Bandwidth ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.7	TEC ER No. TEC28982110	
		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. TEC28982110	
		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. TEC28982110	


Director (MRA), TEC


AD (MRA), TEC

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

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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface : Wi-Fi	Receiver Spurious Emission(conductive testing only) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.10	TEC ER No. TEC28982110
		Receiver Blocking ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.11	TEC ER No. TEC28982110	
		Carrier frequencies ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.2	TEC ER No. TEC28982110	
		Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.3	TEC ER No. TEC28982110	
		Power Spectral Density ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.4	TEC ER No. TEC28982110	


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

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

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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Smart Watch	Interface : Wi-Fi	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. TEC28982110
		Transmitter unwanted emissions within 5 GHz RLAN bands ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.6	TEC ER No. TEC28982110	
		Adaptivity ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.9	TEC ER No. TEC28982110	
		Receiver Blocking ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.10	TEC ER No. TEC28982110	


Director (MRA), TEC


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SCOPE OF DESIGNATION
(ANNEXURE)

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

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Interface : Wi-Fi	Maximum conducted output power FCC CFR 47 Subpart C Cl. 15.247(b), Cl. 15.407(a)
			6 dB Bandwidth FCC CFR 47 Subpart C Cl. 15.247(b)
			Maximum power spectral density FCC CFR 47 Subpart C Cl. 15.247(e), FCC CFR 47 Subpart E Cl. 15.407 (a)
			Band Edge Compliance (Emissions in the Non Restricted Frequency Band) FCC CFR 47 Subpart C Cl. 15.247(d)
			TEC ER No. TEC28982110
			TEC ER No. TEC28982110
			TEC ER No. TEC28982110
			TEC ER No. TEC28982110



Director (MRA), TEC

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AD (MRA), TEC

SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Smart Watch	Interface : Wi-Fi	Bandwidth Occupancy (20db Bandwidth) TEC ER No. TEC28982110
		FCC CFR 47 Subpart C Cl.15.247(a)(1)/ 15.215 (c)	
		Number of hopping channel	TEC ER No. TEC28982110
		FCC CFR 47 Subpart C Cl. 15.247 (a)(1)(ii)	
		Carrier frequency separation FCC CFR 47 Subpart C Cl. 15.247(a)(1)	TEC ER No. TEC28982110
		EIRP for WIFI Interface Annex G-2.16 and G-2.17	TEC ER No. TEC28982110
	Frequency for Wi-Fi equipment Annex G-1.7	TEC ER No. TEC28982110	


Director (MRA), TEC


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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
 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	
	Smart Watch	Interface : Bluetooth Low Energy (BLE)	EIRP for BLE Interface ETSI EN 300 328 V2.1.1.(2016-11) WPC GSR 45(E)	TEC ER No. TEC28982110
		Frequency of Operation for BLE Interface	WPC GSR 45(E)	TEC ER No. TEC28982110
13.	Mobile User Equipment	Parameters Linked with Product Variant	Mobile Emergency Support-Call on 112 TS 24.008 for GSM/ UMTS/ LTE	TEC ER No. TEC47722105
		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. TEC47722105



Director (MRA), TEC



AD (MRA), TEC

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SCOPE OF DESIGNATION
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Laboratory Name: M/s Delhi Test House,
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface : GSM or GPRS or EDGE	Transmitter Maximum output power 3GPP TS 51 010-1 Clause 13.16.2 EN 301 511 (GSM) Clause 4.2.10	TEC ER No. TEC47722105
			Output RF Spectrum 3GPP TS 51 010-1 Clause 13.4 EN 301 511 (GSM) Clause 4.2.6	TEC ER No. TEC47722105
			Output RF Spectrum 3GPP TS 51 010-1 Clause 13.16.3 EN 301 511 (GSM) Clause 4.2.11	TEC ER No. TEC47722105
			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. TEC47722105


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION
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Laboratory Name: M/s Delhi Test House,
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile User Equipment	Interface : GSM or GPRS or EDGE 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. TEC47722105
		Frequency Error and Phase error 3GPP TS 51 010-1 Clause 13.1 EN 301 511 (GSM) Clause 4.2.1	TEC ER No. TEC47722105
		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. TEC47722105


Director (MRA), TEC


AD (MRA), TEC

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Laboratory Name: M/s Delhi Test House,
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Validity: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface : GSM or GPRS or EDGE	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. TEC47722105
			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. TEC47722105
			Receiver blocking 3GPP TS 51 010-1 Clause 14.7.1 EN 301 511 (GSM) Clause 4.2.20	TEC ER No. TEC47722105
		Interface : LTE or LTE-A	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. TEC47722105

A. K. Singh
Director (MRA), TEC

A. K. Singh
AD (MRA), TEC

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**GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE**



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION
(ANNEXURE)

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

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface : LTE or LTE-A	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. TEC47722105
		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. TEC47722105	
		Receiver spurious emission 3GPP TS 36.521-1 Clause 7.9 EN 301 908-13 (LTE) Clause 4.2.10	TEC ER No. TEC47722105	
		Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause 7.3 EN 301 908-13 (LTE) Clause 4.2.12	TEC ER No. TEC47722105	


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SCOPE OF DESIGNATION
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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface : LTE or LTE-A	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. TEC47722105
			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. TEC47722105
		Interface : WCDMA or HSPA	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. TEC47722105
			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. TEC47722105

[Signature]
Director (MRA), TEC

[Signature]
AD (MRA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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

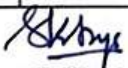
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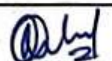
Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	Mobile User Equipment	Interface : WCDMA or HSPA	Transmitter spurious emissions 3GPP TS 34.121-1 Clause 5.11 EN 301 908-2 (UMTS) Clause 4.2.4	TEC ER No. TEC47722105
			Receiver spurious emission 3GPP TS 34.121-1 Clause 6.8 EN 301 908-2 (UMTS) Clause 4.2.10	TEC ER No. TEC47722105
			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. TEC47722105
			Receiver Reference sensitivity level 3GPP TS 34.121-1 Clause 6.2 EN 301 908-2 (UMTS) Clause 4.2.13	TEC ER No. TEC47722105


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SCOPE OF DESIGNATION
(ANNEXURE)

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

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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface : WCDMA or HSPA	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. TEC47722105
			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. TEC47722105
		Interface : Wi-Fi	RF Output Power ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2	TEC ER No. TEC47722105
			Power Spectral Density ETSI EN 300 328 V2.1.1.(2016-11) Clause 5.4.3	TEC ER No. TEC47722105


Director (MRA), TEC


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SCOPE OF DESIGNATION
(ANNEXURE)

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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface : Wi-Fi	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. TEC47722105
		Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2	TEC ER No. TEC47722105	
		Occupied Channel Bandwidth ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.7	TEC ER No. TEC47722105	
		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. TEC47722105	


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SCOPE OF DESIGNATION
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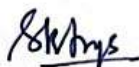
Certificate Number: TEC/MRA/CAB/IND-D/78

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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile User Equipment	Interface : Wi-Fi	Transmitter Unwanted Emissions in the Spurious Domain (conductive testing only) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.9
			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
			Carrier frequencies ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.2
			TEC ER No. TEC47722105
			TEC ER No. TEC47722105
			TEC ER No. TEC47722105
			TEC ER No. TEC47722105



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**GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE**



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION
(ANNEXURE)

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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	Mobile User Equipment	Interface : Wi-Fi	Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.3	TEC ER No. TEC47722105
			Power Spectral Density ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.4	TEC ER No. TEC47722105
			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. TEC47722105
			Transmitter unwanted emissions within 5 GHz RLAN bands ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.6	TEC ER No. TEC47722105


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface : Wi-Fi	Adaptivity ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.9	TEC ER No. TEC47722105
		Receiver Blocking ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.10	TEC ER No. TEC47722105	
		Maximum conducted output power FCC CFR 47 Subpart C Cl. 15.247(b), Cl. 15.407(a)	TEC ER No. TEC47722105	
		6 dB Bandwidth FCC CFR 47 Subpart C Cl. 15.247(b)	TEC ER No. TEC47722105	
		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. TEC47722105	


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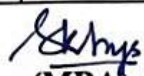
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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	Mobile User Equipment	Interface : Wi-Fi	Band Edge Compliance (Emissions in the Non Restricted Frequency Band) FCC CFR 47 Subpart C Cl. 15.247(d)	TEC ER No. TEC47722105
			Bandwidth Occupancy (20db Bandwidth) FCC CFR 47 Subpart C Cl.15.247(a)(1)/ 15.215 (c)	TEC ER No. TEC47722105
			Number of hopping channel FCC CFR 47 Subpart C Cl. 15.247 (a)(1)(ii)	TEC ER No. TEC47722105
			Carrier frequency separation FCC CFR 47 Subpart C Cl. 15.247(a)(1)	TEC ER No. TEC47722105


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile User Equipment	Interface : Wi-Fi	EIRP for WIFI Interface Annex G-2.16 and G-2.17	TEC ER No. TEC47722105
			Frequency for Wi-Fi equipment Annex G-1.7	TEC ER No. TEC47722105
		Interface : Bluetooth Low Energy (BLE)	EIRP for BLE Interface ETSI EN 300 328 V2.1.1.(2016-11) WPC GSR 45(E)	TEC ER No. TEC47722105
			Frequency of Operation for BLE Interface WPC GSR 45(E)	TEC ER No. TEC47722105
14.	End Point Device for Environmental Monitoring	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. TEC23732002



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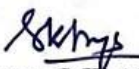
Certificate Number: TEC/MRA/CAB/IND-D/78


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Validity: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	End Point Device for Environmental Monitoring	Interface : GSM or GPRS or EDGE Transmitter Maximum output power 3GPP TS 51 010-1 Clause 13.16.2 EN 301 511 (GSM) Clause 4.2.10	TEC ER No. TEC23732002
		Output RF Spectrum 3GPP TS 51 010-1 Clause 13.4 EN 301 511 (GSM) Clause 4.2.6	TEC ER No. TEC23732002
		Output RF Spectrum 3GPP TS 51 010-1 Clause 13.16.3 EN 301 511 (GSM) Clause 4.2.11	TEC ER No. TEC23732002
		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. TEC23732002


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SCOPE OF DESIGNATION
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Certificate Number: TEC/MRA/CAB/IND-D/78

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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	End Point Device for Environmental Monitoring	Interface : GSM or GPRS or EDGE	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. TEC23732002
			Frequency Error and Phase error 3GPP TS 51 010-1 Clause 13.1 EN 301 511 (GSM) Clause 4.2.1	TEC ER No. TEC23732002
			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. TEC23732002


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SCOPE OF DESIGNATION (ANNEXURE)

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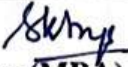
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Validity: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	End Point Device for Environmental Monitoring	Interface : GSM or GPRS or EDGE	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. TEC23732002
			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. TEC23732002
			Receiver blocking 3GPP TS 51 010-1 Clause 14.7.1 EN 301 511 (GSM) Clause 4.2.20	TEC ER No. TEC23732002
		Interface : LTE or LTE-A	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. TEC23732002


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Validity: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	End Point Device for Environmental Monitoring	Interface : LTE or LTE-A	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. TEC23732002
			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. TEC23732002
			Receiver spurious emission 3GPP TS 36.521-1 Clause 7.9 EN 301 908-13 (LTE) Clause 4.2.10	TEC ER No. TEC23732002
			Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause 7.3 EN 301 908-13 (LTE) Clause 4.2.12	TEC ER No. TEC23732002


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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	End Point Device for Environmental Monitoring	Interface : LTE or LTE-A	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. TEC23732002
			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. TEC23732002
		Interface : WCDMA or HSPA	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. TEC23732002
			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. TEC23732002


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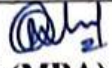
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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	End Point Device for Environmental Monitoring	Interface : WCDMA or HSPA	Transmitter spurious emissions 3GPP TS 34.121-1 Clause 5.11 EN 301 908-2 (UMTS) Clause 4.2.4	TEC ER No. TEC23732002
			Receiver spurious emission 3GPP TS 34.121-1 Clause 6.8 EN 301 908-2 (UMTS) Clause 4.2.10	TEC ER No. TEC23732002
			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. TEC23732002
			Receiver Reference sensitivity level 3GPP TS 34.121-1 Clause 6.2 EN 301 908-2 (UMTS) Clause 4.2.13	TEC ER No. TEC23732002


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SCOPE OF DESIGNATION (ANNEXURE)

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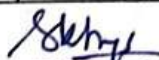
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	End Point Device for Environmental Monitoring	Interface : WCDMA or HSPA	Receiver Adjacent Channel Selectivity(ACS) 3GPP TS 34.121-1 Clause 6.4 EN 301 908-2 (UMTS) Clause 4.2.6	TEC ER No. TEC23732002
			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. TEC23732002
15.	PON Family of Broadband Equipment	Parameters Linked with Product Variant	Over Voltage Current Protection on 2W ITU-T K.21	TEC ER No. TEC14762108
		Interface: 2 Wire	Insulation Test for 2 wire Int. ETSI EN 300 001	TEC ER No. TEC14762108
		Interface : Wi-Fi	RF Output Power ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2	TEC ER No. TEC14762108


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	PON Family of Broadband Equipment	Interface : Wi-Fi	Power Spectral Density ETSI EN 300 328 V2.1.1.(2016-11) Clause 5.4.3 TEC ER No. TEC14762108
		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. TEC14762108	
		Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2 TEC ER No. TEC14762108	
		Occupied Channel Bandwidth ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.7 TEC ER No. TEC14762108	


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	PON Family of Broadband Equipment	Interface : Wi-Fi	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. TEC14762108
			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. TEC14762108
			Receiver Spurious Emission(conductive testing only) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.10	TEC ER No. TEC14762108
			Receiver Blocking ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.11	TEC ER No. TEC14762108


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Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	PON Family of Broadband Equipment	Interface : Wi-Fi	Carrier frequencies ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.2	TEC ER No. TEC14762108
			Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.3	TEC ER No. TEC14762108
			Power Spectral Density ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.4	TEC ER No. TEC14762108
			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. TEC14762108



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AD (MRA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Delhi Test House,
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:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	PON Family of Broadband Equipment	Interface : Wi-Fi	Transmitter unwanted emissions within 5 GHz RLAN bands ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.6	TEC ER No. TEC14762108
			Adaptivity ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.9	TEC ER No. TEC14762108
			Receiver Blocking ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.10	TEC ER No. TEC14762108
			Maximum conducted output power FCC CFR 47 Subpart C Cl. 15.247(b), Cl. 15.407(a)	TEC ER No. TEC14762108
			6 dB Bandwidth FCC CFR 47 Subpart C Cl. 15.247(b)	TEC ER No. TEC14762108


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Behind Parnami Hospital, Kundli, Sonipat- 131 028

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

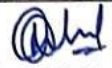
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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	PON Family of Broadband Equipment	Interface : Wi-Fi	Maximum power spectral density TEC ER No. TEC14762108
			FCC CFR 47 Subpart C Cl. 15.247(e), FCC CFR 47 Subpart E Cl. 15.407 (a)
			Band Edge Compliance (Emissions in the Non Restricted Frequency Band) FCC CFR 47 Subpart C Cl. 15.247(d)
			Bandwidth Occupancy (20db Bandwidth) FCC CFR 47 Subpart C Cl.15.247(a)(1)/ 15.215 (c)
			Number of hopping channel FCC CFR 47 Subpart C Cl. 15.247 (a)(1)(ii) TEC ER No. TEC14762108


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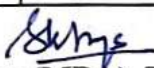
Certificate Number: TEC/MRA/CAB/IND-D/78

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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	PON Family of Broadband Equipment	Interface : Wi-Fi	Carrier frequency separation FCC CFR 47 Subpart C Cl. 15.247(a)(1) TEC ER No. TEC14762108
			EIRP for WIFI Interface Annex G-2.16 and G-2.17 TEC ER No. TEC14762108
			Frequency for Wi-Fi equipment Annex G-1.7 TEC ER No. TEC14762108
16.	DSL Equipment	Parameters Linked with Product Variant	Over Voltage Current Protection on 2W ITU-T K.21 TEC ER No. TEC13751911
		Interface: 2 Wire	Insulation Test for 2 wire Int. ETSI EN 300 001 TEC ER No. TEC13751911
		Interface : Wi-Fi	RF Output Power ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2 TEC ER No. TEC13751911


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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	DSL Equipment	Interface : Wi-Fi	Power Spectral Density ETSI EN 300 328 V2.1.1.(2016-11) Clause 5.4.3	TEC ER No. TEC13751911
		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. TEC13751911	
		Medium Utilization (MU) Factor (Non-Adaptive Equipment) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.2	TEC ER No. TEC13751911	
		Occupied Channel Bandwidth ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.7	TEC ER No. TEC13751911	


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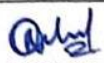
Validity: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	DSL Equipment	Interface : Wi-Fi	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. TEC13751911
			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. TEC13751911
			Receiver Spurious Emission(conductive testing only) ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.10	TEC ER No. TEC13751911
			Receiver Blocking ETSI EN 300 328 V2.1.1(2016-11) Clause 5.4.11	TEC ER No. TEC13751911


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

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Validity: 01/11/2021 to 31/10/2024

Last Amended on: _____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	DSL Equipment	Interface : Wi-Fi	Carrier frequencies ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.2
		Occupied Channel Bandwidth ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.3	TEC ER No. TEC13751911
		Power Spectral Density ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.4	TEC ER No. TEC13751911
		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. TEC13751911



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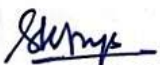
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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	DSL Equipment	Interface : Wi-Fi	Transmitter unwanted emissions within 5 GHz RLAN bands ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.6	TEC ER No. TEC13751911
			Adaptivity ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.9	TEC ER No. TEC13751911
			Receiver Blocking ETSI EN 301 893 V2.1.1(2017-05) Clause 5.4.10	TEC ER No. TEC13751911
			Maximum conducted output power FCC CFR 47 Subpart C Cl. 15.247(b), Cl. 15.407(a)	TEC ER No. TEC13751911
			6 dB Bandwidth FCC CFR 47 Subpart C Cl. 15.247(b)	TEC ER No. TEC13751911


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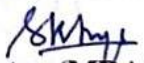
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Validity: 01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	DSL Equipment	Interface : Wi-Fi	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. TEC13751911
		Band Edge Compliance (Emissions in the Non Restricted Frequency Band) FCC CFR 47 Subpart C Cl. 15.247(d)	TEC ER No. TEC13751911	
		Bandwidth Occupancy (20db Bandwidth) FCC CFR 47 Subpart C Cl.15.247(a)(1)/ 15.215 (c)	TEC ER No. TEC13751911	
		Number of hopping channel FCC CFR 47 Subpart C Cl. 15.247 (a)(1)(ii)	TEC ER No. TEC13751911	


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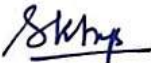
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Validity:01/11/2021 to 31/10/2024

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	DSL Equipment	Interface : Wi-Fi	Carrier frequency separation FCC CFR 47 Subpart C Cl. 15.247(a)(1) TEC ER No. TEC13751911
			EIRP for WIFI Interface Annex G-2.16 and G-2.17 TEC ER No. TEC13751911
			Frequency for Wi-Fi equipment Annex G-1.7 TEC ER No. TEC13751911
17.	Media Gateway	Interface: 2 Wire	Insulation Test for 2 wire Int. ETSI EN 300 001 TEC ER No. TEC66492003
18.	Router	Interface: 2 Wire	Insulation Test for 2 wire Int. ETSI EN 300 001 TEC ER No. TEC37682110
19.	Transmission Terminal Equipment	Interface: 2 Wire	Insulation Test for 2 wire Int. ETSI EN 300 001 TEC ER No. TEC78832109



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