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ISO 9001:2015

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 Compliance International Telecom Laboratories
(A unit of Compliance International Pvt. Ltd.)
has been assessed and designated as Conformity Assessment Body (CAB)
for its facilities at

X-35, 3rd Floor, Okhla Phase-II, New Delhi-110 002

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/71-II

Issue Date: 31/03/2022 **Valid Until: 30/03/2025**

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 (MTCTE)
For Designating Authority
TEC

Certificate No: TEC/MRA/CAB/IND-D/71-II dated 31/03/2022 issued to
M/s Compliance International Telecom Laboratories
(A unit of Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase-II, New Delhi-110 002

Validity: 31/03/2022 to 30/03/2025

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Terms & Conditions

This certificate is issued as per the terms and conditions stipulated in the TEC Scheme for Designating Domestic Conformity Assessment Bodies and Certification Bodies for Conformity Assessment 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 out 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 two 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 of the Designated CABs to ensure that Standards of practices are maintained as well as to investigate complaints made against them.

D. SUSPENSION OR WITHDRAWAL OF DESIGNATION

1. DA shall suspend or withdraw the designation of a CAB if
   a. Its accreditation is withdrawn.
   b. It is found that the CAB is not complying with the stipulated criteria or requirements.
   c. It is guilty of any offence involving fraud or dishonesty.
   d. DA concludes that there is a just cause for withdrawing the designation.

2. A CAB whose designation, and recognition in case of MRA, has been suspended or withdrawn shall be removed from the list of designated CABs, in case it fails to take corrective measures.

3. DA shall keep the designation of a Designated CAB under suspension, until the completion of formal review process.

E. AMENDMENT TO THE SCHEME

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

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SCOPE OF DESIGNATION
(Annexure)

Laboratory Name: **M/s Compliance International Telecom Laboratories**
(A unit of Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase-II, New Delhi-110002

Certificate Number: TEC/MRA/CAB/IND-D/71-II **Page 1 of 32**

Validity: 31/03/2022 to 30/03/2025* **Last Amended on: ___**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
1.	IP Terminal	Parameters Linked with Product Variants	IP V6 Header Parameters RFC 2460/8200, Annex- P7 (Conformance testing)	TEC ER No. TEC67472003
			Dual IP layer Operation RFC 4213, Annex- P6	TEC ER No. TEC67472003
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Cl. 38	TEC ER No. TEC67472003
			Receiver Sensitivity IEEE 802.3z Cl. 38	TEC ER No. TEC67472003
			Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC67472003
		Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC67472003
		Interface: 10/100 BASE-T Ethernet	Link Speed and Auto negotiation Test FE IEEE 802.3	TEC ER No. TEC67472003

Director (CA), TEC **AD (CA), TEC**

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(Annexure)

Laboratory Name: M/s Compliance International Telecom Laboratories
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X-35, 3rd Floor, Okhla Phase-II, New Delhi-110002

Certificate Number: TEC/MRA/CAB/IND-D/71-II **Page 2 of 32**

Validity: 31/03/2022 to 30/03/2025* **Last Amended on: ___**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
2.	Media Gateway	Parameters Linked with Product Variants	CCS7 MTP-2 Parameters ITU-T Q.781	TEC ER No. TEC 66492003
			CCS7 MTP-3 Parameters ITU-T Q.782	TEC ER No. TEC 66492003
			IP V4 Parameters RFC 791, Annex- P 6 (Conformance Testing)	TEC ER No. TEC 66492003
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Cl. 38	TEC ER No. TEC 66492003
			Receiver Sensitivity IEEE 802.3z Cl. 38	TEC ER No. TEC 66492003
			Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC 66492003
		Interface: 10/100 BASE-T Ethernet	Link Speed and Auto negotiation Test FE IEEE 802.3	TEC ER No. TEC 66492003
		Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC 66492003

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Validity: 31/03/2022 to 30/03/2025* **Last Amended on: ___**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Media Gateway	**Interface: 10 G Optical Ethernet**	Average Launch Power IEEE 802.3ae Cl. 52	TEC ER No. TEC 66492003
			Receiver Sensitivity IEEE 802.3ae Cl. 52	TEC ER No. TEC 66492003
			Wavelength IEEE 802.3ae Cl. 52	TEC ER No. TEC 66492003
		Interface: 2 Mbps - E1	Nominal Bit Rate with Tolerance. ITU-T G.703	TEC ER No. TEC 66492003
			Input Jitter Tolerance ITU-T G.823	TEC ER No. TEC 66492003
			Input Return Loss ITU-T G.703	TEC ER No. TEC 66492003
			Output Jitter ITU-T G.823	TEC ER No. TEC 66492003
			Pulse Mask ITU-T G.703	TEC ER No. TEC 66492003

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Validity: 31/03/2022 to 30/03/2025* **Last Amended on: ___**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Media Gateway	**Interface: STM-1 Electrical**	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC 66492003
			Input Return Loss ITU-T G.703	TEC ER No. TEC 66492003
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER No. TEC 66492003
			Output Jitter ITU-T G.825	TEC ER No. TEC 66492003
			Pulse Mask ITU-T G.703	TEC ER No. TEC 66492003
		Interface: STM-1 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC 66492003
			Mean Launched Power ITU-T G.957	TEC ER No. TEC 66492003
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC 66492003
			Operating Wavelength Range ITU-T G.957	TEC ER No. TEC 66492003

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Validity: 31/03/2022 to 30/03/2025* **Last Amended on: ___**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Media Gateway	**Interface: STM-1 Optical**	Output Jitter ITU-T G.783	TEC ER No. TEC 66492003
			Receiver Overload ITU-T G.957	TEC ER No. TEC 66492003
			Receiver Sensitivity ITU-T G.957	TEC ER No. TEC 66492003
		Interface: 2W Trunk	Transmission of DTMF Signalling Q.23 Clause 6 and 7	TEC ER No. TEC 66492003
			DC Resistance ETSI TBR-21 Clause 4.4.1	TEC ER No. TEC 66492003
			Longitudinal Conversion Loss for 2 W Trunk Int. Q.552 Clause 2.2.2 and Figure-2	TEC ER No. TEC 66492003
			Minimum Current on Junction/ Trunk Line ETSI EN 300 001	TEC ER No. TEC 66492003
			Resistance to Earth ETSI TBR-21 Clause 4.4.4	TEC ER No. TEC 66492003
			Return Loss for 2 W Trunk Int. Q.552 Clause 2.2.1.2 and Figure-1	TEC ER No. TEC 66492003

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Validity: 31/03/2022 to 30/03/2025* **Last Amended on: ___**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Media Gateway	**Interface: ISDN PRI**	
		Input Jitter Tolerance ITU-T G.823	TEC ER No. TEC 66492003
		Input Return Loss ITU-T G.703 Clause no. 11.3	TEC ER No. TEC 66492003
		Nominal Bit Rate Tolerance for ISDN PRI ITU-T G.703 Clause no. 11.1	TEC ER No. TEC 66492003
		Pulse Mask for PRI ITU-T G.703 Clause no. 11.2	TEC ER No. TEC 66492003
		Output Jitter for PRI ITU-T G.823 Clause no. 5.1	TEC ER No. TEC 66492003
		Layer-III PRI Specification - Call Setup ITU-T Q.931 Clause no. 3.1.1, 3.1.2, 3.1.3, 3.1.14, 3.1.15, 3.1.5, 3.1.9, 3.1.10, 4.5.5, 4.5.8, 4.5.10, 4.5.13, Table 6-5 for all call clearing message	TEC ER No. TEC 66492003

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Media Gateway	**Interface: ISDN PRI**	Layer-III PRI Specification – Call Clearing ITU-T Q.931 Clause no. 3.1.1, 3.1.2, 3.1.3, 3 .1.14, 3.1.15, 3.1.5, 3.1.9, 3.1.10, 4.5.5, 4.5.8, 4.5.10, 4.5.13, Table 6-5 for all call clearing message	TEC ER No. TEC 66492003
3.	**Soft Switch**	**Interface: 1G Optical Ethernet**	Average Launch Power IEEE 802.3z Cl. 38	TEC ER No. TEC 67792003
			Receiver Sensitivity IEEE 802.3z Cl. 38	TEC ER No. TEC 67792003
			Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC 67792003
		Interface: 10 G Optical Ethernet	Average Launch Power IEEE 802.3ae Cl. 52	TEC ER No. TEC 67792003
			Receiver Sensitivity IEEE 802.3ae Cl. 52	TEC ER No. TEC 67792003
			Wavelength IEEE 802.3ae Cl. 52	TEC ER No. TEC 67792003

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Certificate Number: TEC/MRA/CAB/IND-D/71-II **Page 8 of 32**

Validity: 31/03/2022 to 30/03/2025* **Last Amended on:** ___

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Soft Switch	Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC 67792003
4.	Signaling Gateway	Parameters Linked with Product Variants	CCS7 MTP-2 Parameters ITU-T Q.781	TEC ER No. TEC 67492003
			CCS7 MTP-3 Parameters ITU-T Q.782	TEC ER No. TEC 67492003
			IPv4 Parameters RFC 791, Annex- P 6 (Conformance Testing)	TEC ER No. TEC 67492003
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Cl. 38	TEC ER No. TEC 67492003
			Receiver Sensitivity IEEE 802.3z Cl. 38	TEC ER No. TEC 67492003
			Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC 67492003
		Interface: 10 G Optical Ethernet	Average Launch Power IEEE 802.3ae Cl. 52	TEC ER No. TEC 67492003

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Validity: 31/03/2022 to 30/03/2025* **Last Amended on: ___**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Signaling Gateway	Interface: 10 G Optical Ethernet	Receiver Sensitivity IEEE 802.3ae Cl. 52	TEC ER No. TEC 67492003
			Wavelength IEEE 802.3ae Cl. 52	TEC ER No. TEC 67492003
		Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC 67492003
		Interface: 2 Mbps - E1	Nominal Bit Rate with Tolerance. ITU-T G.703	TEC ER No. TEC 67492003
			Input Jitter Tolerance ITU-T G.823	TEC ER No. TEC 67492003
			Input Return Loss ITU-T G.703	TEC ER No. TEC 67492003
			Output Jitter ITU-T G.823	TEC ER No. TEC 67492003
			Pulse Mask ITU-T G.703	TEC ER No. TEC 67492003

Director (CA), TEC

AD (CA), TEC

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SCOPE OF DESIGNATION
(Annexure)

Laboratory Name: **M/s Compliance International Telecom Laboratories**
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Certificate Number: TEC/MRA/CAB/IND-D/71-II **Page 10 of 32**

Validity: 31/03/2022 to 30/03/2025* **Last Amended on: ___**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Signaling Gateway	**Interface: STM-1 Optical**	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC 67492003
			Mean Launched Power ITU-T G.957	TEC ER No. TEC 67492003
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC 67492003
			Operating Wavelength Range ITU-T G.957	TEC ER No. TEC 67492003
			Output Jitter ITU-T G.783	TEC ER No. TEC 67492003
			Receiver Overload ITU-T G.957	TEC ER No. TEC 67492003
			Receiver Sensitivity ITU-T G.957	TEC ER No. TEC 67492003
5.	**Session Border Controller**	**Parameters Linked with Product Variants**	IP V6 Header Parameters RFC 2460/8200, Annex- P 7 (Conformance testing)	TEC ER No. TEC 67222003
			Dual IP layer Operation RFC 4213, Annex- P 6	TEC ER No. TEC 67222003
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Cl. 38	TEC ER No. TEC 67222003
			Receiver Sensitivity IEEE 802.3z Cl. 38	TEC ER No. TEC 67222003

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Certificate Number: TEC/MRA/CAB/IND-D/71-II **Page 11 of 32**

Validity: 31/03/2022 to 30/03/2025* **Last Amended on: ___**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Session Border Controller	**Interface: 1G Optical Ethernet**	Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC 67222003
		Interface: 10 G Optical Ethernet	Average Launch Power IEEE 802.3ae Cl. 52	TEC ER No. TEC 67222003
			Receiver Sensitivity IEEE 802.3ae Cl. 52	TEC ER No. TEC 67222003
			Wavelength IEEE 802.3ae Cl. 52	TEC ER No. TEC 67222003
6.	**PABX**	**Interface: Fast Ethernet Electrical**	IP V4 Parameters Set-A RFC 791, Annex- P 6 (Conformance Testing)	TEC ER No. TEC 67292002
		Interface: Gigabit Ethernet Electrical	IP V4 Parameters Set-A RFC 791, Annex- P 6 (Conformance Testing)	TEC ER No. TEC 67292002

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Validity: 31/03/2022 to 30/03/2025* **Last Amended on: ___**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
7.	LAN Switch	Parameters Linked with Product Variant	Spanning Tree Protocol IEEE 802.1d, Annex –P 11	TEC ER No. TEC 37942007
			Dynamic Routing Annex P-11	TEC ER No. TEC 37942007
			IP V4 Parameters RFC 791, Annex- P 11 (Conformance Testing)	TEC ER No. TEC 37942007
			IP V6 Parameters RFC 2460/8200, Annex- P 11	TEC ER No. TEC 37942007
			Manageability SNMP v2 or v3 RFC 3410, RFC 3416, Annex- P11 (Functional Testing)	TEC ER No. TEC 37942007
			Static Routing, Annex- P11	TEC ER No. TEC 37942007
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Cl. 38	TEC ER No. TEC 37942007
			Receiver Sensitivity IEEE 802.3z Cl. 38	TEC ER No. TEC 37942007
			Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC 37942007

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Validity: 31/03/2022 to 30/03/2025* **Last Amended on: ___**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	LAN Switch	**Interface: 10 G Optical Ethernet**	Average Launch Power IEEE 802.3ae Cl. 52	TEC ER No. TEC 37942007
			Receiver Sensitivity IEEE 802.3ae Cl. 52	TEC ER No. TEC 37942007
			Wavelength IEEE 802.3ae Cl. 52	TEC ER No. TEC 37942007
		Interface: 10/100 BASE-T Ethernet	Link Speed and Auto negotiation Test FE IEEE 802.3	TEC ER No. TEC 37942007
		Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC 37942007
		Interface: 40 G Optical Ethernet	Average Launch Power IEEE 802.3ba Cl. 86 87	TEC ER No. TEC 37942007
			Receiver Sensitivity IEEE 802.3ba Cl. 86 87	TEC ER No. TEC 37942007

Director (CA), TEC **AD (CA), TEC**

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Validity: 31/03/2022 to 30/03/2025* **Last Amended on: ___**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	LAN Switch	**Interface: 40 G Optical Ethernet**	Wavelength IEEE 802.3ba Cl. 86 87	TEC ER No. TEC 37942007
		Interface: 100 G Optical Ethernet	Average Launch Power IEEE 802.3ba Cl. 86 88	TEC ER No. TEC 37942007
			Receiver Sensitivity IEEE 802.3ba Cl. 86 88	TEC ER No. TEC 37942007
			Wavelength IEEE 802.3ba Cl. 86 88	TEC ER No. TEC 37942007
		Interface: 2 Mbps-E1	Input Jitter Tolerance ITU-T G.823	TEC ER No. TEC 37942007
			Input Return Loss ITU-T G.703	TEC ER No. TEC 37942007
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER No. TEC 37942007
			Output Jitter ITU-T G.823	TEC ER No. TEC 37942007
			Pulse Mask ITU-T G.703	TEC ER No. TEC 37942007

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SCOPE OF DESIGNATION
(Annexure)

Laboratory Name: M/s Compliance International Telecom Laboratories
(A unit of Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase-II, New Delhi-110002

Certificate Number: TEC/MRA/CAB/IND-D/71-II

Validity: 31/03/2022 to 30/03/2025*

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	LAN Switch	Interface: STM-1 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC 37942007
			Mean Launched Power ITU-T G.957	TEC ER No. TEC 37942007
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC 37942007
			Operating Wavelength Range ITU-T G.957	TEC ER No. TEC 37942007
			Output Jitter ITU-T G.783	TEC ER No. TEC 37942007
			Receiver Overload ITU-T G.957	TEC ER No. TEC 37942007
			Receiver Sensitivity ITU-T G.957	TEC ER No. TEC 37942007
		Interface: STM-4 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC 37942007
			Mean Launched Power ITU-T G.957	TEC ER No. TEC 37942007
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC 37942007

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	LAN Switch	**Interface: STM-4 Optical**	Operating Wavelength Range ITU-T G.957	TEC ER No. TEC 37942007
			Output Jitter ITU-T G.783	TEC ER No. TEC 37942007
			Receiver Overload ITU-T G.957	TEC ER No. TEC 37942007
			Receiver Sensitivity ITU-T G.957	TEC ER No. TEC 37942007
		Interface: STM- 16 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC 37942007
			Mean Launched Power ITU-T G.957	TEC ER No. TEC 37942007
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC 37942007
			Operating Wavelength Range ITU-T G.957	TEC ER No. TEC 37942007
			Output Jitter ITU-T G.783	TEC ER No. TEC 37942007
			Receiver Overload ITU-T G.957	TEC ER No. TEC 37942007

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	LAN Switch	**Interface: STM- 16 Optical**	Receiver Sensitivity ITU-T G.957	TEC ER No. TEC 37942007
7.	**Router**	**Interface: STM-64 Optical**	Nominal Bit Rate with Tolerance ITU-T G.707	TEC ER No. TEC 37682111
8.	**Transmission Terminal Equipment**	**Interface: STM-64 Optical**	Nominal Bit Rate with Tolerance ITU-T G.707	TEC ER No. TEC 78832108
9.	**Mobile User Equipment**	**Parameters Linked with Product Variants**	IPV6 Extn. Header Parameters RFC 2460 / RFC 8200, Annex- P 7 (Conformance Testing)	TEC ER No. TEC 47722108
			IPV6 Header Parameters RFC 2460 / RFC 8200, Annex- P 7 (Conformance Testing)	TEC ER No. TEC 47722108
			Dual IP Layer Operation RFC 4213 – Address, Annex- P 6 RFC 4213 Cl. 2.1 (Conformance Testing)	TEC ER No. TEC 47722108

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Validity: 31/03/2022 to 30/03/2025* **Last Amended on:** ___

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Mobile User Equipment	Parameters Linked with Product Variants	Dual IP Layer Operation RFC 4213 – DNS, Annex- P 6 RFC 4213 Cl. 2.2 (Conformance Testing)	TEC ER No. TEC 47722108
10.	IoT Gateway	Parameters Linked with Product Variants	IPV6 Extn. Header Parameters RFC 2460 / RFC 8200, Annex- P 7 (Conformance Testing)	TEC ER No. TEC 24492108
			IPV6 Header Parameters RFC 2460 / RFC 8200, Annex- P 7 (Conformance Testing)	TEC ER No. TEC 24492108
			Dual IP Layer Operation RFC 4213 – Address, Annex- P 6 RFC 4213 Cl. 2.1 (Conformance Testing)	TEC ER No. TEC 24492108
			Dual IP Layer Operation RFC 4213 – DNS, Annex- P 6 RFC 4213 Cl. 2.2 (Conformance Testing)	TEC ER No. TEC 24492108

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	IoT Gateway	**Interface: 10/100 BASE-T Ethernet**	Link Speed and Auto negotiation Test FE IEEE 802.3	TEC ER No. TEC 24492108
		Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC 24492108
		Interface: 40 G Optical Ethernet	Average Launch Power IEEE 802.3ba Cl. 86 87	TEC ER No. TEC 24492108
			Receiver Sensitivity IEEE 802.3ba Cl. 86 87	TEC ER No. TEC 24492108
			Wavelength IEEE 802.3ba Cl. 86 87	TEC ER No. TEC 24492108
		Interface: 100 G Optical Ethernet	Average Launch Power IEEE 802.3ba Cl. 86 88	TEC ER No. TEC 24492108
			Receiver Sensitivity IEEE 802.3ba Cl. 86 88	TEC ER No. TEC 24492108
			Wavelength IEEE 802.3ba Cl. 86 88	TEC ER No. TEC 24492108

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(Annexure)

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
11.	Tracking Device	Parameters Linked with Product Variants	IPV6 Extn. Header Parameters RFC 2460 / RFC 8200, Annex- P 7 (Conformance Testing)	TEC ER No. TEC 28732108
			IPV6 Header Parameters RFC 2460 / RFC 8200, Annex- P 7 (Conformance Testing)	TEC ER No. TEC 28732108
			Dual IP Layer Operation RFC 4213 – Address, Annex- P 6 RFC 4213 Cl. 2.1 (Conformance Testing)	TEC ER No. TEC 28732108
			Dual IP Layer Operation RFC 4213 – DNS, Annex- P 6 RFC 4213 Cl. 2.2 (Conformance Testing)	TEC ER No. TEC 28732108
12.	Smart Watch	Parameters Linked with Product Variants	IPV6 Extn. Header Parameters RFC 2460 / RFC 8200, Annex- P 7 (Conformance Testing)	TEC ER No. TEC 28982110

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Watch	Parameters Linked with Product Variants	IPV6 Header Parameters RFC 2460 / RFC 8200, Annex- P 7 (Conformance Testing)	TEC ER No. TEC 28982110
			Dual IP Layer Operation RFC 4213 – Address, Annex- P 6 RFC 4213 Cl. 2.1 (Conformance Testing)	TEC ER No. TEC 28982110
			Dual IP Layer Operation RFC 4213 – DNS, Annex- P 6 RFC 4213 Cl. 2.2 (Conformance Testing)	TEC ER No. TEC 28982110
13.	Smart Camera	Parameters Linked with Product Variants	IPV6 Extn. Header Parameters RFC 2460 / RFC 8200, Annex- P 7 (Conformance Testing)	TEC ER No. TEC 28822108
			IPV6 Header Parameters RFC 2460 / RFC 8200, Annex- P 7 (Conformance Testing)	TEC ER No. TEC 28822108
			Dual IP Layer Operation RFC 4213 – Address, Annex- P 6 RFC 4213 Cl. 2.1 (Conformance Testing)	TEC ER No. TEC 28822108

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Smart Camera	**Parameters Linked with Product Variants**	Dual IP Layer Operation RFC 4213 – DNS, Annex- P 6 RFC 4213 Cl. 2.2 (Conformance Testing)	TEC ER No. TEC 28822108
14.	**Equipment Operating in 2.4 GHz and 5 GHz Band**	**Parameters Linked with Product Variants**	IPV6 Extn. Header Parameters RFC 2460 / RFC 8200, Annex- P 7 (Conformance Testing)	TEC ER No. TEC 59432108
			IPV6 Header Parameters RFC 2460 / RFC 8200, Annex- P 7 (Conformance Testing)	TEC ER No. TEC 59432108
			Dual IP Layer Operation RFC 4213 – Address, Annex- P 6 RFC 4213 Cl. 2.1 (Conformance Testing)	TEC ER No. TEC 59432108
			Dual IP Layer Operation RFC 4213 – DNS, Annex- P 6 RFC 4213 Cl. 2.2 (Conformance Testing)	TEC ER No. TEC 59432108

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Equipment Operating in 2.4 GHz and 5 GHz Band	**Interface: 10/100 BASE-T Ethernet**	Link Speed and Auto negotiation Test FE IEEE 802.3	TEC ER No. TEC 59432108
		Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC 59432108
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Cl. 38	TEC ER No. TEC 59432108
			Receiver Sensitivity IEEE 802.3z Cl. 38	TEC ER No. TEC 59432108
			Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC 59432108
		Interface: 10 G Optical Ethernet	Average Launch Power IEEE 802.3ae Cl. 52	TEC ER No. TEC 59432108
			Receiver Sensitivity IEEE 802.3ae Cl. 52	TEC ER No. TEC 59432108
			Wavelength IEEE 802.3ae Cl. 52	TEC ER No. TEC 59432108

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Certificate Number: TEC/MRA/CAB/IND-D/71-II

Validity: 31/03/2022 to 30/03/2025* **Last Amended on: ___**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Equipment Operating in 2.4 GHz and 5 GHz Band	**Interface: 2 Mbps - E1**	Nominal Bit Rate with Tolerance. ITU-T G.703	TEC ER No. TEC 59432108
			Input Jitter Tolerance ITU-T G.823	TEC ER No. TEC 59432108
			Input Return Loss ITU-T G.703	TEC ER No. TEC 59432108
			Output Jitter ITU-T G.823	TEC ER No. TEC 59432108
			Pulse Mask ITU-T G.703	TEC ER No. TEC 59432108
		Interface: STM-1 Electrical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC 59432108
			Input Return Loss ITU-T G.703	TEC ER No. TEC 59432108
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER No. TEC 59432108
			Output Jitter ITU-T G.825	TEC ER No. TEC 59432108
			Pulse Mask ITU-T G.703	TEC ER No. TEC 59432108

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Equipment Operating in 2.4 GHz and 5 GHz Band	**Interface: STM-1 Optical**	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC 59432108
			Mean Launched Power ITU-T G.957	TEC ER No. TEC 59432108
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC 59432108
			Operating Wavelength Range ITU-T G.957	TEC ER No. TEC 59432108
			Output Jitter ITU-T G.783	TEC ER No. TEC 59432108
			Receiver Overload ITU-T G.957	TEC ER No. TEC 59432108
			Receiver Sensitivity ITU-T G.957	TEC ER No. TEC 59432108
		Interface: STM-4 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC 59432108
			Mean Launched Power ITU-T G.957	TEC ER No. TEC 59432108

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Equipment Operating in 2.4 GHz and 5 GHz Band	**Interface: STM-4 Optical**	Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC 59432108
			Operating Wavelength Range ITU-T G.957	TEC ER No. TEC 59432108
			Output Jitter ITU-T G.783	TEC ER No. TEC 59432108
			Receiver Overload ITU-T G.957	TEC ER No. TEC 59432108
			Receiver Sensitivity ITU-T G.957	TEC ER No. TEC 59432108
		Interface: STM- 16 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC 59432108
			Mean Launched Power ITU-T G.957	TEC ER No. TEC 59432108
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC 59432108
			Operating Wavelength Range ITU-T G.957	TEC ER No. TEC 59432108
			Output Jitter ITU-T G.783	TEC ER No. TEC 59432108
			Receiver Overload ITU-T G.957	TEC ER No. TEC 59432108

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Equipment Operating in 2.4 GHz and 5 GHz Band	**Interface: STM- 16 Optical**	Receiver Sensitivity ITU-T G.957	TEC ER No. TEC 59432108
15.	**PTP PMP Microwave Fixed Radio Systems**	**Interface: 10/100 BASE-T Ethernet**	Link Speed and Auto negotiation Test FE IEEE 802.3	TEC ER No. TEC 56422005
		Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC 56422005
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Cl. 38	TEC ER No. TEC 56422005
			Receiver Sensitivity IEEE 802.3z Cl. 38	TEC ER No. TEC 56422005
			Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC 56422005

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	PTP PMP Microwave Fixed Radio Systems	**Interface: 2 Mbps - E1**	Nominal Bit Rate with Tolerance. ITU-T G.703	TEC ER No. TEC 56422005
			Input Jitter Tolerance ITU-T G.823	TEC ER No. TEC 56422005
			Input Return Loss ITU-T G.703	TEC ER No. TEC 56422005
			Output Jitter ITU-T G.823	TEC ER No. TEC 56422005
			Pulse Mask ITU-T G.703	TEC ER No. TEC 56422005
		Interface: STM-1 Electrical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC 56422005
			Input Return Loss ITU-T G.703	TEC ER No. TEC 56422005
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER No. TEC 56422005
			Output Jitter ITU-T G.825	TEC ER No. TEC 56422005
			Pulse Mask ITU-T G.703	TEC ER No. TEC 56422005

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	PTP PMP Microwave Fixed Radio Systems	**Interface: STM-1 Optical**	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC 56422005
			Mean Launched Power ITU-T G.957	TEC ER No. TEC 56422005
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC 56422005
			Operating Wavelength Range ITU-T G.957	TEC ER No. TEC 56422005
			Output Jitter ITU-T G.783	TEC ER No. TEC 56422005
			Receiver Overload ITU-T G.957	TEC ER No. TEC 56422005
			Receiver Sensitivity ITU-T G.957	TEC ER No. TEC 56422005
		Interface: STM-4 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC 56422005
			Mean Launched Power ITU-T G.957	TEC ER No. TEC 56422005
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC 56422005
			Operating Wavelength Range ITU-T G.957	TEC ER No. TEC 56422005

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	PTP PMP Microwave Fixed Radio Systems	**Interface: STM-4 Optical**	Output Jitter ITU-T G.783	TEC ER No. TEC 56422005
			Receiver Overload ITU-T G.957	TEC ER No. TEC 56422005
			Receiver Sensitivity ITU-T G.957	TEC ER No. TEC 56422005
		Interface: STM- 16 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC 56422005
			Mean Launched Power ITU-T G.957	TEC ER No. TEC 56422005
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC 56422005
			Operating Wavelength Range ITU-T G.957	TEC ER No. TEC 56422005
			Output Jitter ITU-T G.783	TEC ER No. TEC 56422005
			Receiver Overload ITU-T G.957	TEC ER No. TEC 56422005
			Receiver Sensitivity ITU-T G.957	TEC ER No. TEC 56422005

Director (CA), TEC **AD (CA), TEC**

***The validity of Certificate is up to 30/03/2025 or the continued validity of NABL Accreditation, whichever is earlier.**

GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS
TELECOMMUNICATION ENGINEERING CENTRE
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

ISO 9001:2015

SCOPE OF DESIGNATION
(Annexure)

Laboratory Name: **M/s Compliance International Telecom Laboratories**
(A unit of Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase-II, New Delhi-110002

Certificate Number: TEC/MRA/CAB/IND-D/71-II **Page 31 of 32**

Validity: 31/03/2022 to 30/03/2025* **Last Amended on: ___**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
16.	Point of Sale Devices	Interface: 2 Wire	Longitudinal Conversion Loss for 2W Int. Q.552 Cl. 2.2.2	TEC ER No. TEC 17672201
			Return Loss for 2W Int. Q.552 Cl. 2.2.1.2	TEC ER No. TEC 17672201
			DC Resistance ETSI TBR-21 Clause 4.4.1	TEC ER No. TEC 17672201
			Resistance to Earth ETSI TBR-21 Clause 4.4.4	TEC ER No. TEC 17672201
			Minimum Current on Junction/ Trunk Line ETSI EN 300 001, Annex-D	TEC ER No. TEC 17672201
17.	Compact Cellular Network	Parameters Linked with Product Variants	IPV6 Extn. Header Parameters RFC 2460 / RFC 8200, Annex- P 7 (Conformance Testing)	TEC ER No. TEC 42272108
			IPV6 Header Parameters RFC 2460 / RFC 8200, Annex- P 7 (Conformance Testing)	TEC ER No. TEC 42272108

Director (CA), TEC **AD (CA), TEC**

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SCOPE OF DESIGNATION
(Annexure)

Laboratory Name: M/s Compliance International Telecom Laboratories
(A unit of Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase-II, New Delhi-110002

Certificate Number: TEC/MRA/CAB/IND-D/71-II

Validity: 31/03/2022 to 30/03/2025* **Last Amended on:** ___

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Compact Cellular Network	Parameters Linked with Product Variants	Dual IP Layer Operation RFC 4213 – Address, Annex- P 6 RFC 4213 Cl. 2.1 (Conformance Testing)	TEC ER No. TEC 42272108
			Dual IP Layer Operation RFC 4213 – DNS, Annex- P 6 RFC 4213 Cl. 2.2 (Conformance Testing)	TEC ER No. TEC 42272108

Director (CA), TEC

AD (CA), 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-110001

CERTIFICATE OF DESIGNATION

M/s Compliance International Telecom Laboratories, New Delhi
(A unit of Compliance International Pvt. Ltd.)

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

X-35, 3rd Floor, Okhla Phase-II, New Delhi-110020

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/71-III

Issue Date: 23/09/2022 **Valid until: 22/09/2025**

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

Nitin Jain
Deputy Director General (CA)
For Designating Authority
TEC

Certificate No: TEC/MRA/CAB/IND-D/71-III dated 23/09/2022 issued to
M/s Compliance International Telecom Laboratories, New Delhi
(A unit of Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase-2, New Delhi-110 020

ISO 9001:2015

Validity: - 23/09/2022 to 22/09/2025

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.

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: **M/s Compliance International Telecom Laboratories, New Delhi**
(A unit of Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase-2, New Delhi-110 020.

Certificate Number: TEC/MRA/CAB/IND-D/71-III **Page 1 of 1**

Validity: 23/09/2022 to 22/09/2025 **Last Amended on: ----**

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
1.	**Router**	PPPoE RFC 2516@ Annex P 11	TEC ER No. TEC37682204
		Radius RFC 2865@ Annex P 11	TEC ER No. TEC37682204
2.	**IP Security Equipment**	IPSec Functional Test @ Annex P 11	TEC ER No. TEC34731911
		Policy Functional Test @ Annex P 11	TEC ER No. TEC34731911
		NAT Functional Test @ Annex P 11	TEC ER No. TEC34731911
3.	**LAN Switch**	Mac Learning and Packet Forwarding @ Annex P 11	TEC ER No. TEC37942207

Director (CA), TEC

AD (CA), TEC

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