



**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-110 020

In the field of Testing

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

Issue Date: 27/03/2025

Validity: 31/03/2025 to 30/03/2028

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

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

**Certificate No: TEC/MRA/CAB/IND-D/71-II dated 27/03/2025 issued to
M/s Compliance International Telecom Laboratories
(A Unit of Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase-II, New Delhi-110 020**



Validity: - 31/03/2025 to 30/03/2028

Terms & Conditions

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

Some of the conditions are reiterated as under:

A. Obligations of the Designated CAB.

1. It shall ensure that it maintains its accreditation status from any recognized 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 Organizational 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: TEC/MRA/CAB/IND-D/71-II dated 27/03/2025 issued to
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
1.	IP Terminal	Parameters linked with Product Variants	IPV6 Header Parameters RFC 2460/8200, Annex-P7 (Conformance Testing)	TEC ER NO. TEC67472407
			Dual IP Layer Operation RFC 4213, Annex-P6	TEC ER NO. TEC67472407
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Clause- 38	TEC ER NO. TEC67472407
			Receiver Sensitivity IEEE 802.3z Clause-38	TEC ER NO. TEC67472407
			Wavelength IEEE 802.3z Clause-38	TEC ER NO. TEC67472407
		Interface: 10/100/1000 Base-T Ethernet	Link Speed and Auto Negotiation Test GE IEEE 802.3	TEC ER NO. TEC67472407
		Interface: 10/100 Base-T Ethernet	Link Speed and Auto Negotiation FE IEEE 802.3	TEC ER NO. TEC67472407
2.	Media Gateway	Parameters linked with Product Variants	CCS7 MTP-2 Parameters ITU-T Q.781	TEC ER NO. TEC66492401
			CCS7 MTP-3 Parameters ITU-T Q.782	TEC ER NO. TEC66492401
			IPV4 Parameters RFC 791, Annex-P6 (Conformance Testing)	TEC ER NO. TEC66492401
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Clause-38	TEC ER NO. TEC66492401
			Receiver Sensitivity IEEE 802.3z Clause-38	TEC ER NO. TEC66492401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Media Gateway	Interface: 1G Optical Ethernet	Wavelength IEEE 802.3z Clause-38 TEC ER NO. TEC66492401
		Interface: 10/100 Base-T Ethernet	Link Speed and Auto Negotiation Test FE IEEE 802.3 TEC ER NO. TEC66492401
		Interface: 10/100/1000 Base-T Ethernet	Link Speed and Auto Negotiation GE IEEE 802.3 TEC ER NO. TEC66492401
		Interface: 10G Optical Ethernet	Average Launch Power IEEE 802.3ae Clause-52 TEC ER NO. TEC66492401
			Receiver Sensitivity IEEE 802.3ae Clause-52 TEC ER NO. TEC66492401
			Wavelength IEEE 802.3ae Clause-52 TEC ER NO. TEC66492401
		Interface: 2 Mbps-E1	Nominal Bit Rate with Tolerance ITU-T G.703 TEC ER NO. TEC66492401
			Input Jitter Tolerance ITU-T G.823 TEC ER NO. TEC66492401
			Input Return Loss ITU-T G.703 TEC ER NO. TEC66492401
			Output Jitter ITU-T G.823 TEC ER NO. TEC66492401
			Pulse Mask ITU-T G.703 TEC ER NO. TEC66492401
		Interface: STM-1 Electrical	Input Jitter Tolerance ITU-T G.825 TEC ER NO. TEC66492401

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	Media Gateway	Interface: STM-1 Electrical	Input Return Loss ITU-T G.703	TEC ER NO. TEC66492401
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER NO. TEC66492401
			Output Jitter ITU-T G.825	TEC ER NO. TEC66492401
			Pulse Mask ITU-T G.703	TEC ER NO. TEC66492401
		Interface: STM-1 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER NO. TEC66492401
			Mean Launched Power ITU-T G.957	TEC ER NO. TEC66492401
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER NO. TEC66492401
			Operating Wavelength Range ITU-T G.957	TEC ER NO. TEC66492401
			Output Jitter ITU-T G.783	TEC ER NO. TEC66492401
			Receiver Overload ITU-T G.957	TEC ER NO. TEC66492401
			Receiver Sensitivity ITU-T G.957	TEC ER NO. TEC66492401
		Interface: 2W Trunk	Transmission of DTMF Signalling Q.23 Clause-6,7	TEC ER NO. TEC66492401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification	
	Media Gateway	Interface: 2W Trunk	DC Resistance ETSI TBR-21 Clause-4.4.1	TEC ER NO. TEC66492401
			Longitudinal Conversion Loss for 2W Trunk Int. Q.552 Clause-2.2.2 and Figure-2	TEC ER NO. TEC66492401
			Minimum Current on Junction/Trunk Line ETSI EN 300 001	TEC ER NO. TEC66492401
			Resistance to Earth ETSI TBR-21 Clause-4.4.4	TEC ER NO. TEC66492401
			Return Loss for 2W Int Q.552 Clause-2.2.1.2 and Figure-1	TEC ER NO. TEC66492401
		Interface: ISDN PRI	Input Jitter Tolerance ITU-T G.823	TEC ER NO. TEC66492401
			Input Return Loss ITU-T G.703 Clause-11.3	TEC ER NO. TEC66492401
			Nominal Bit Rate Tolerance for ISDN PRI ITU-T G.703 Clause-11.1	TEC ER NO. TEC66492401
			Pulse Mask for PRI ITU-T G.703 Clause-11.2	TEC ER NO. TEC66492401
			Output Jitter for PRI ITU-T G.823 Clause-5.1	TEC ER NO. TEC66492401

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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 Setup ITU-T Q.931 Clause- 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. TEC66492401
			Layer-III PRI Specification- Call Clearing ITU-T Q.931 Clause- 3.1.1, 3.1.2, 3.1.3, 3.1.14, 3.1.15, 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. TEC66492401
3.	Soft Switch	Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Clause-38	TEC ER NO. TEC67792401
			Receiver Sensitivity IEEE 802.3z Clause-38	TEC ER NO. TEC67792401
			Wavelength IEEE 802.3z Clause-38	TEC ER NO. TEC67792401
		Interface: 10G Optical Ethernet	Average Launch Power IEEE 802.3ae Clause-52	TEC ER NO. TEC67792401
			Receiver Sensitivity IEEE 802.3ae Clause-52	TEC ER NO. TEC67792401
			Wavelength IEEE 802.3ae Clause-52	TEC ER NO. TEC67792401

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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. TEC67792401
4.	Signalling Gateway	Parameters linked with Product Variants	CCS7 MTP-2 Parameters ITU-T Q.781 TEC ER NO. TEC67492401
			CCS7 MTP-3 Parameters ITU-T Q.782 TEC ER NO. TEC67492401
			IPV4 Parameters RFC 791, Annex-P6 (Conformance Testing) TEC ER NO. TEC67492401
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Clause- 38 TEC ER NO. TEC67492401
			Receiver Sensitivity IEEE 802.3z Clause-38 TEC ER NO. TEC67492401
			Wavelength IEEE 802.3z Clause-38 TEC ER NO. TEC67492401
		Interface: 10/100/1000 Base-T Ethernet	Link Speed and Auto Negotiation GE IEEE 802.3 TEC ER NO. TEC67492401
		Interface: 10G Optical Ethernet	Average Launch Power IEEE 802.3ae Clause-52 TEC ER NO. TEC67492401
			Receiver Sensitivity IEEE 802.3ae Clause-52 TEC ER NO. TEC67492401
			Wavelength IEEE 802.3ae Clause-52 TEC ER NO. TEC67492401
		Interface: 2 Mbps-E1	Nominal Bit Rate with Tolerance ITU-T G.703 TEC ER NO. TEC67492401

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification	
	Signalling Gateway	Interface: 2 Mbps-E1	Input Jitter Tolerance ITU-T G.823	TEC ER NO. TEC67492401
			Input Return Loss ITU-T G.703	TEC ER NO. TEC67492401
			Output Jitter ITU-T G.823	TEC ER NO. TEC67492401
			Pulse Mask ITU-T G.703	TEC ER NO. TEC67492401
		Interface: STM-1 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER NO. TEC67492401
			Mean Launched Power ITU-T G.957	TEC ER NO. TEC67492401
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER NO. TEC67492401
			Operating Wavelength Range ITU-T G.957	TEC ER NO. TEC67492401
			Output Jitter ITU-T G.783	TEC ER NO. TEC67492401
			Receiver Overload ITU-T G.957	TEC ER NO. TEC67492401
			Receiver Sensitivity ITU-T G.957	TEC ER NO. TEC67492401
			5.	Session Border Controller

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification		
	Session Border Controller	Parameters linked with Product Variants	Dual IP Layer Operation RFC 4213, Annex-P6 TEC ER NO. TEC67222401		
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Clause- 38	TEC ER NO. TEC67222401	
			Receiver Sensitivity IEEE 802.3z Clause-38	TEC ER NO. TEC67222401	
			Wavelength IEEE 802.3z Clause-38	TEC ER NO. TEC67222401	
		Interface: 10G Optical Ethernet	Average Launch Power IEEE 802.3ae Clause- 52	TEC ER NO. TEC67222401	
			Receiver Sensitivity IEEE 802.3ae Clause-52	TEC ER NO. TEC67222401	
			Wavelength IEEE 802.3ae Clause-52	TEC ER NO. TEC67222401	
		6.	PABX	Interface: Fast Ethernet Electrical	IPV4 Parameters Set-A RFC 791, Annex-P6 (Conformance Testing) TEC ER NO. TEC67292002
				Interface: Gigabit Ethernet Electrical	IPV4 Parameters Set-A RFC 791, Annex-P6 (Conformance Testing) TEC ER NO. TEC67292002
7.	LAN Switch	Parameters Linked with Product Variant	Spanning Tree Protocol IEEE 802.1d Annex-P 11 TEC ER NO. TEC37942410		
			Dynamic Routing Annex-P 11 TEC ER NO. TEC37942410		
			IPV4 Parameters RFC 791 Annex-P 11 (Conformance Testing) TEC ER NO. TEC37942410		

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification	
	LAN Switch	Parameters Linked with Product Variant	IPV6 Parameters RFC 2460/8200 Annex-P 11	TEC ER NO. TEC37942410
			Manageability SNMP v2 or v3 RFC 3410, RFC 3416 Annex-P 11 (Functional Testing)	TEC ER NO. TEC37942410
			Static Routing Annex- P 11	TEC ER NO. TEC37942410
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Clause- 38	TEC ER NO. TEC37942410
			Receiver Sensitivity IEEE 802.3z Clause-38	TEC ER NO. TEC37942410
			Wavelength IEEE 802.3z Clause-38	TEC ER NO. TEC37942410
		Interface: 10G Optical Ethernet	Average Launch Power IEEE 802.3ae Clause- 52	TEC ER NO. TEC37942410
			Receiver Sensitivity IEEE 802.3ae Clause-52	TEC ER NO. TEC37942410
			Wavelength IEEE 802.3ae Clause-52	TEC ER NO. TEC37942410
		Interface: 10/100 Base-T Ethernet	Link Speed and Auto Negotiation Test FE IEEE 802.3	TEC ER NO. TEC37942410
		Interface: 10/100/1000 Base-T Ethernet	Link Speed and Auto Negotiation Test GE IEEE 802.3	TEC ER NO. TEC37942410

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification	
	LAN Switch	Interface: 40G Optical Ethernet	Average Launch Power IEEE 802.3ba Clause- 86,87	TEC ER NO. TEC37942410
			Receiver Sensitivity IEEE 802.3ba Clause-86,87	TEC ER NO. TEC37942410
			Wavelength IEEE 802.3ba Clause-86,87	TEC ER NO. TEC37942410
		Interface: 100G Optical Ethernet	Average Launch Power IEEE 802.3ba Clause- 86,88	TEC ER NO. TEC37942410
			Receiver Sensitivity IEEE 802.3ba Clause-86,88	TEC ER NO. TEC37942410
			Wavelength IEEE 802.3ba Clause-86,88	TEC ER NO. TEC37942410
		Interface: 2 Mbps-E1	Input Jitter Tolerance ITU-T G.823	TEC ER NO. TEC37942410
			Input Return Loss ITU-T G.703	TEC ER NO. TEC37942410
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER NO. TEC37942410
	Output Jitter ITU-T G.823		TEC ER NO. TEC37942410	
	Pulse Mask ITU-T G.703		TEC ER NO. TEC37942410	

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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. TEC37942410
			Mean Launched Power ITU-T G.957	TEC ER NO. TEC37942410
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER NO. TEC37942410
			Operating Wavelength Range ITU-T G.957	TEC ER NO. TEC37942410
			Output Jitter ITU-T G.783	TEC ER NO. TEC37942410
			Receiver Overload ITU0T G.957	TEC ER NO. TEC37942410
			Receiver Sensitivity ITU-T G.957	TEC ER NO. TEC37942410
		Interface: STM-4 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER NO. TEC37942410
			Mean Launched Power ITU-T G.957	TEC ER NO. TEC37942410
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER NO. TEC37942410
			Operating Wavelength Range ITU-T G.957	TEC ER NO. TEC37942410
			Output Jitter ITU-T G.783	TEC ER NO. TEC37942410

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	LAN Switch	Interface: STM-4 Optical	Receiver Overload ITU0T G.957	TEC ER NO. TEC37942410
			Receiver Sensitivity ITU-T G.957	TEC ER NO. TEC37942410
		Interface: STM-16 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER NO. TEC37942410
			Mean Launched Power ITU-T G.957	TEC ER NO. TEC37942410
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER NO. TEC37942410
			Operating Wavelength Range ITU-T G.957	TEC ER NO. TEC37942410
			Output Jitter ITU-T G.783	TEC ER NO. TEC37942410
			Receiver Overload ITU0T G.957	TEC ER NO. TEC37942410
			Receiver Sensitivity ITU-T G.957	TEC ER NO. TEC37942410
		Interface: 25G Optical Ethernet	Average Launch Power IEEE 802.3 - 2018 Clause-114	TEC ER NO. TEC37942410
			Receiver Sensitivity IEEE 802.3 - 2018 Clause-114	TEC ER NO. TEC37942410
			Wavelength IEEE 802.3 - 2018 Clause-114	TEC ER NO. TEC37942410

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SCOPE OF DESIGNATION

(ANNEXURE)

Laboratory Name: TEC/MRA/CAB/IND-D/71-II dated 27/03/2025 issued to
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X-35, 3rd Floor, Okhla Phase-II, New Delhi- 110 020

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Validity: 31/03/2025 to 30/03/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification	
	LAN Switch	Interface: 50G Optical Ethernet	Average Launch Power IEEE 802.3cn Clause- 139	TEC ER NO. TEC37942410
			Receiver Sensitivity IEEE 802.3cn Clause- 139	TEC ER NO. TEC37942410
			Wavelength IEEE 802.3cn Clause- 139	TEC ER NO. TEC37942410
		Interface: 200G Optical Ethernet	Average Launch Power IEEE 802.3cn Clause- 121, 122	TEC ER NO. TEC37942410
			Receiver Sensitivity IEEE 802.3cn Clause- 121, 122	TEC ER NO. TEC37942410
			Wavelength IEEE 802.3cn Clause- 121, 122	TEC ER NO. TEC37942410
		Interface: 400G Optical Ethernet	Average Launch Power IEEE 802.3cn Clause-122, 124	TEC ER NO. TEC37942410
			Receiver Sensitivity IEEE 802.3cn Clause-122, 124	TEC ER NO. TEC37942410
			Wavelength IEEE 802.3cn Clause-122, 124	TEC ER NO. TEC37942410
8.	Router	Interface: STM-64 Optical	Nominal Bit Rate with Tolerance ITU-T G.707	TEC ER NO. TEC37682410

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Validity: 31/03/2025 to 30/03/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
9.	Transmission Terminal Equipment	Interface: STM-64 Optical	Nominal Bit Rate with Tolerance ITU-T G.707 TEC ER NO. TEC78832401
10.	Mobile User Equipment	Parameters Linked with Product Variants	IPV6 Extn. Header Parameters RFC 2460/ RFC 8200 Annex- P7 (Conformance Testing) TEC ER NO. TEC47722408
			IPV6 Header Parameters RFC 2460/RFC 8200 Annex-P7 (Conformance Testing) TEC ER NO. TEC47722408
			Dual IP Layer Operation RFC 4213- Address Annex-P6 RFC 4213 Clause-2.1 (Conformance Testing) TEC ER NO. TEC47722408
			Dual IP Layer Operation RFC 4213-DNS Annex-P6 RFC 4213 Clause-2.2 (Conformance Testing) TEC ER NO. TEC47722408
11.	IoT Gateway	Parameters Linked with Product Variants	IPV6 Extn. Header Parameters RFC 2460/ RFC 8200 Annex- P7 (Conformance Testing) TEC ER NO. TEC24492408

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Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Parameters Linked with Product Variants	IPV6 Header Parameters RFC 2460/ RFC 8200 Annex-P7 (Conformance Testing)	TEC ER NO. TEC24492408
			Dual IP Layer Operation RFC 4213- Address Annex-P6 RFC 4213 Clause-2.1 (Conformance Testing)	TEC ER NO. TEC24492408
			Dual IP Layer Operation RFC 4213-DNS Annex-P6 RFC 4213 Clause-2.2 (Conformance Testing)	TEC ER NO. TEC24492408
		Interface: 10/100 Base-T Ethernet	Link Speed and Auto Negotiation Test FE IEEE 802.3	TEC ER NO. TEC24492408
		Interface: 10/100/1000 Base-T Ethernet	Link Speed and Auto Negotiation Test GE IEEE 802.3	TEC ER NO. TEC24492408
		Interface: 40G Optical Ethernet	Average Launch Power IEEE 802.3ba Clause- 86,87	TEC ER NO. TEC24492408
			Receiver Sensitivity IEEE 802.3ba Clause-86,87	TEC ER NO. TEC24492408
			Wavelength IEEE 802.3ba Clause-86,87	TEC ER NO. TEC24492408

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Validity: 31/03/2025 to 30/03/2028

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: 100G Optical Ethernet	Average Launch Power IEEE 802.3ba Clause- 86,88	TEC ER NO. TEC24492408
			Receiver Sensitivity IEEE 802.3ba Clause-86,88	TEC ER NO. TEC24492408
			Wavelength IEEE 802.3ba Clause-86,88	TEC ER NO. TEC24492408
12.	Tracking Device	Parameters Linked with Product Variants	IPV6 Extn. Header Parameters RFC 2460/ RFC 8200 Annex- P7 (Conformance Testing)	TEC ER NO. TEC28732408
			IPV6 Header Parameters RFC 2460/RFC 8200 Annex-P7 (Conformance Testing)	TEC ER NO. TEC28732408
			Dual IP Layer Operation RFC 4213- Address Annex-P6 RFC 4213 Clause-2.1 (Conformance Testing)	TEC ER NO. TEC28732408
			Dual IP Layer Operation RFC 4213-DNS Annex-P6 RFC 4213 Clause-2.2 (Conformance Testing)	TEC ER NO. TEC28732408

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Validity: 31/03/2025 to 30/03/2028

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification	
13.	Smart Watch	Parameters Linked with Product Variants	IPV6 Extn. Header Parameters RFC 2460/ RFC 8200 Annex- P7 (Conformance Testing)	TEC ER NO. TEC28982407
			IPV6 Header Parameters RFC 2460/RFC 8200 Annex-P7 (Conformance Testing)	TEC ER NO. TEC28982407
			Dual IP Layer Operation RFC 4213- Address Annex-P6 RFC 4213 Clause-2.1 (Conformance Testing)	TEC ER NO. TEC28982407
			Dual IP Layer Operation RFC 4213-DNS Annex-P6 RFC 4213 Clause-2.2 (Conformance Testing)	TEC ER NO. TEC28982407
14.	Smart Camera	Parameters Linked with Product Variants	IPV6 Extn. Header Parameters RFC 2460/ RFC 8200 Annex- P7 (Conformance Testing)	TEC ER NO. TEC28822407
			IPV6 Header Parameters RFC 2460/RFC 8200 Annex-P7 (Conformance Testing)	TEC ER NO. TEC28822407

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Last Amended on: ----

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- Address Annex- P6 RFC 4213 Clause-2.1 (Conformance Testing)	TEC ER NO. TEC28822407
			Dual IP Layer Operation RFC 4213-DNS Annex-P6 RFC 4213 Clause-2.2 (Conformance Testing)	TEC ER NO. TEC28822407
15.	Equipment Operating in 2.4 GHz and 5 GHz Band	Parameters Linked with Product Variants	IPV6 Extn. Header Parameters RFC 2460/ RFC 8200 Annex- P7 (Conformance Testing)	TEC ER NO. TEC59432407
			IPV6 Header Parameters RFC 2460/RFC 8200 Annex-P7 (Conformance Testing)	TEC ER NO. TEC59432407
			Dual IP Layer Operation RFC 4213- Address Annex- P6 RFC 4213 Clause-2.1 (Conformance Testing)	TEC ER NO. TEC59432407
			Dual IP Layer Operation RFC 4213-DNS Annex-P6 RFC 4213 Clause-2.2 (Conformance Testing)	TEC ER NO. TEC59432407

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Validity: 31/03/2025 to 30/03/2028

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: 10/100 Base-T Ethernet	Link Speed and Auto Negotiation Test FE IEEE 802.3 TEC ER NO. TEC59432407
		Interface: 10/100/1000 Base-T Ethernet	Link Speed and Auto Negotiation Test GE IEEE 802.3 TEC ER NO. TEC59432407
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Clause- 38 TEC ER NO. TEC59432407
			Receiver Sensitivity IEEE 802.3z Clause-38 TEC ER NO. TEC59432407
			Wavelength IEEE 802.3z Clause-38 TEC ER NO. TEC59432407
		Interface: 10G Optical Ethernet	Average Launch Power IEEE 802.3ae Clause- 52 TEC ER NO. TEC59432407
			Receiver Sensitivity IEEE 802.3ae Clause-52 TEC ER NO. TEC59432407
			Wavelength IEEE 802.3ae Clause-52 TEC ER NO. TEC59432407
		Interface: 2 Mbps-E1	Nominal Bit Rate with Tolerance ITU-T G.703 TEC ER NO. TEC59432407
			Input Jitter Tolerance ITU-T G.823 TEC ER NO. TEC59432407
			Input Return Loss ITU-T G.703 TEC ER NO. TEC59432407
			Output Jitter ITU-T G.823 TEC ER NO. TEC59432407
			Pulse Mask ITU-T G.703 TEC ER NO. TEC59432407

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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: STM-1 Electrical	Input Jitter Tolerance ITU-T G.825	TEC ER NO. TEC59432407
			Input Return Loss ITU-T G.703	TEC ER NO. TEC59432407
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER NO. TEC59432407
			Output Jitter ITU-T G.825	TEC ER NO. TEC59432407
			Pulse Mask ITU-T G.703	TEC ER NO. TEC59432407
		Interface: STM-1 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER NO. TEC59432407
			Mean Launched Power ITU-T G.957	TEC ER NO. TEC59432407
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER NO. TEC59432407
			Operating Wavelength Range ITU-T G.957	TEC ER NO. TEC59432407
			Output Jitter ITU-T G.783	TEC ER NO. TEC59432407
			Receiver Overload ITU-T G.957	TEC ER NO. TEC59432407
			Receiver Sensitivity ITU-T G.957	TEC ER NO. TEC59432407
		Interface: STM-4 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER NO. TEC59432407

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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: STM-4 Optical	Mean Launched Power ITU-T G.957	TEC ER NO. TEC59432407
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER NO. TEC59432407
			Operating Wavelength Range ITU-T G.957	TEC ER NO. TEC59432407
			Output Jitter ITU-T G.783	TEC ER NO. TEC59432407
			Receiver Overload ITU-T G.957	TEC ER NO. TEC59432407
			Receiver Sensitivity ITU-T G.957	TEC ER NO. TEC59432407
		Interface: STM-16 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER NO. TEC59432407
			Mean Launched Power ITU-T G.957	TEC ER NO. TEC59432407
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER NO. TEC59432407
			Operating Wavelength Range ITU-T G.957	TEC ER NO. TEC59432407
			Output Jitter ITU-T G.783	TEC ER NO. TEC59432407
			Receiver Overload ITU-T G.957	TEC ER NO. TEC59432407

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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. TEC59432407	
16.	PTP PMP Microwave Fixed Radio	Interface: 10/100 Base-T Ethernet	Link Speed and Auto Negotiation Test FE IEEE 802.3 TEC ER NO. TEC56422308	
		Interface: 10/100/1000 Base-T Ethernet	Link Speed and Auto Negotiation Test GE IEEE 802.3 TEC ER NO. TEC56422308	
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Clause- 38	TEC ER NO. TEC56422308
			Receiver Sensitivity IEEE 802.3z Clause-38	TEC ER NO. TEC56422308
			Wavelength IEEE 802.3z Clause-38	TEC ER NO. TEC56422308
		Interface: 2 Mbps-E1	Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER NO. TEC56422308
			Input Jitter Tolerance ITU-T G.823	TEC ER NO. TEC56422308
			Input Return Loss ITU-T G.703	TEC ER NO. TEC56422308
			Output Jitter ITU-T G.823	TEC ER NO. TEC56422308
				Pulse Mask ITU-T G.703

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification	
	PTP PMP Microwave Fixed Radio	Interface: STM-1 Electrical	Input Jitter Tolerance ITU-T G.825	TEC ER NO. TEC56422308
			Input Return Loss ITU-T G.703	TEC ER NO. TEC56422308
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER NO. TEC56422308
			Output Jitter ITU-T G.825	TEC ER NO. TEC56422308
			Pulse Mask ITU-T G.703	TEC ER NO. TEC56422308
		Interface: STM-1 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER NO. TEC56422308
			Mean Launched Power ITU-T G.957	TEC ER NO. TEC56422308
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER NO. TEC56422308
			Operating Wavelength Range ITU-T G.957	TEC ER NO. TEC56422308
			Output Jitter ITU-T G.783	TEC ER NO. TEC56422308
			Receiver Overload ITU-T G.957	TEC ER NO. TEC56422308
			Receiver Sensitivity ITU-T G.957	TEC ER NO. TEC56422308

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Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification	
	PTP PMP Microwave Fixed Radio	Interface: STM-4 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER NO. TEC56422308
			Mean Launched Power ITU-T G.957	TEC ER NO. TEC56422308
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER NO. TEC56422308
			Operating Wavelength Range ITU-T G.957	TEC ER NO. TEC56422308
			Output Jitter ITU-T G.783	TEC ER NO. TEC56422308
			Receiver Overload ITU-T G.957	TEC ER NO. TEC56422308
			Receiver Sensitivity ITU-T G.957	TEC ER NO. TEC56422308
		Interface: STM-16 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER NO. TEC56422308
			Mean Launched Power ITU-T G.957	TEC ER NO. TEC56422308
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER NO. TEC56422308
			Operating Wavelength Range ITU-T G.957	TEC ER NO. TEC56422308
			Output Jitter ITU-T G.783	TEC ER NO. TEC56422308

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Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification	
	PTP PMP Microwave Fixed Radio	Interface: STM-16 Optical	Receiver Overload ITU-T G.957	TEC ER NO. TEC56422308
			Receiver Sensitivity ITU-T G.957	TEC ER NO. TEC56422308
17.	Point of Sale Devices	Interface: 2 Wire	Longitudinal Conversion Loss for 2 W Int. Q.552 Clause-2.2.2	TEC ER NO. TEC17672407
			Return Loss for 2W Int. Q.552 Clause-2.2.1.2	TEC ER NO. TEC17672407
			DC Resistance ETSI TBR-21 Clause-4.4.1	TEC ER NO. TEC17672407
			Resistance to Earth ETSI TBR-21 Clause-4.4.4	TEC ER NO. TEC17672407
			Minimum Current on Junction/Trunk Line ETSI EN 300 001 Annex-D	TEC ER NO. TEC17672407
18.	Compact Cellular Network	Parameters Linked with Product Variants	IPV6 Extn. Header Parameters RFC 2460/ RFC 8200 Annex- P7 (Conformance Testing)	TEC ER NO. TEC42272301
			IPV6 Header Parameters RFC 2460/RFC 8200 Annex-P7 (Conformance Testing)	TEC ER NO. TEC42272301

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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-P6 RFC 4213 Clause-2.1 (Conformance Testing)	TEC ER NO. TEC42272301
			Dual IP Layer Operation RFC 4213-DNS Annex-P6 RFC 4213 Clause-2.2 (Conformance Testing)	TEC ER NO. TEC42272301
19.	Infiniband Switch	Parameters Linked with Product Variant	Subnet Manager Annex-P11 Appendix-II Test No. 44	TEC ER NO. TEC30012410

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



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

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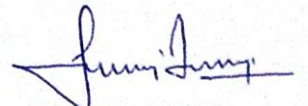
Validity: 23/09/2022 to 22/09/2025

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

***The validity of Certificate is up to 22/09/2025 or the continued validity of NABL Accreditation, whichever is earlier.**

Government of India
Department of Telecommunications
Telecommunication Engineering Centre
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi-110001

No. 1-98/2023-CA/TEC

Dated: 24.04.2024

To,
M/s Compliance International Telecom Laboratories
(A unit of Compliance International Pvt. Ltd.), Delhi
X-35, 3rd Floor, Okhla Phase-II, New Delhi -110020
Mob: +91-9811156939, E-Mail Id: yadav@typeapproval.com

Subject: Enhancement of Scope of CAB Designation of M/s Compliance International Telecom Laboratories (A unit of Compliance International Pvt. Ltd.), Delhi.

Ref: 1. TEC CAB Designation Certificate no. TEC/MRA/CAB/IND-D/71-III
2. Your application for enhancement of Scope of CAB Designation vide Application no. SW6876438150 dated 14.02.2024 submitted on NSWS CAB Designation Portal.

This is in reference to your application for enhancement of Scope of CAB Designation of Certificate No. TEC/MRA/CAB/IND-D/71-III dated 29.09.2022, valid upto 22.09.2025, submitted vide Application no. SW6876438150 dated 14.02.2024 in online mode on NSWS CAB Designation Portal.

2. In reference to the recommendations of Site visit assessment team, the scope of designation of CAB Certificate no. referred above is hereby enhanced in respect of test parameters of IP Terminal as per detail mentioned in Annexure attached.
3. All other details, terms and conditions and validity of CAB Designation Certificate no. TEC/MRA/CAB/IND-D/71-III dated 23.09.2022 shall remain unchanged.
4. This is issued with the approval of Competent Authority.

Signed by Vijay Dixit
Date: 24-04-2024 13:18:21

Encl: as above

(Vijay Dixit)
Director (CA), TEC

Copy to:

1. DDG (TC), TEC, New Delhi for kind information and necessary action
2. DDG (NR)/DDG(ER)/DDG (WR)/DDG (SR) TEC for kind information

**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 Compliance International Telecom Laboratories, Delhi
X-35, 3rd floor, Okhla Phase-2, New Delhi-110020

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

Page 1 of 1

Validity: 24/04/2024 to 22/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment / Product	Test Parameter or Type of Testing	Standard/ Specification
1.	IP Terminal	SIP Parameters Set-A-RFC 3261, Annex-P1	TEC ER No. TEC67472401
		RTP Parameters Set-A-RFC 3550, Annex-P2	TEC ER No. TEC67472401
		RTCP Parameters Set-A-RFC 3551, Annex-P3	TEC ER No. TEC67472401

Signed by Sanjay Bhardwaj
Date: 24-04-2024 13:24:34
AD (CA), TEC

***The validity of Certificate is up to 22/09/2025 or the continued validity of NABL Accreditation, whichever is earlier.**