



**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

Issue Date: 23/02/2024

Validity: 23/02/2024 to 22/02/2027

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

(To see the scope of designation of this laboratory, you may also visit TEC website www.tec.gov.in)

Signed for and on behalf of TEC

Signed by Vijay Dixit

Date: 23-02-2024 10:48:46

**Vijay Dixit
Director (CA)
For Designating Authority
TEC**

**Certificate No: TEC/MRA/CAB/IND-D/71 dated 23/02/2024 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: - 23/02/2024 to 22/02/2027

Terms & Conditions

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

Some of the conditions are reiterated as under:

A. Obligations of the Designated CAB.

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

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

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

B. REFERENCE TO DESIGNATION STATUS

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

C. POST-DESIGNATION SURVEILLANCE

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

D. SUSPENSION OR WITHDRAWAL OF DESIGNATION

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

E. AMENDMENT TO THE SCHEME

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

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SCOPE OF DESIGNATION **(ANNEXURE)**

**Laboratory Name: M/s Compliance International Telecom Laboratories
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X-35, 3rd Floor, Okhla Phase-II, New Delhi-110 002**

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Validity: 23/02/2024 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
1.	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	Parameters Linked with Product Variants	Dynamic Routing (Annex P-11)	TEC ER No. TEC37682308
			IPv4 Parameters RFC 791 (Conformance Testing)	TEC ER No. TEC37682308
			IPv6 Complete Suite RFC2460 or 8200, RFC 4861, RFC 4862, RFC 1981, RFC4443 (Conformance Testing)	TEC ER No. TEC37682308
			BGP for IPv6 RFC 2545 (Conformance Testing)	TEC ER No. TEC37682308
			BGP4 as per RFC 4271 and MBGP as per RFC 4760 (Conformance Testing)	TEC ER No. TEC37682308
			LDP as per RFC 5036 (Conformance Testing)	TEC ER No. TEC37682308
			Manageability SNMP v2 or v3 RFC 3410, RFC 3416 (Functional Testing)	TEC ER No. TEC37682308
			OSPF v2 RFC 2328 (Conformance Testing)	TEC ER No. TEC37682308
			OSPF v3 RFC 2740 (Conformance Testing)	TEC ER No. TEC37682308
			Static Routing Annex-P11	TEC ER No. TEC37682308
			TCP Parameters RFC 793 (Conformance Testing)	TEC ER No. TEC37682308
			Link Speed and Auto negotiation Test GE IEEE 802.3Annex-H	TEC ER No. TEC37682308
		Interface: 10/100/1000 BASE-T Ethernet		

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	Interface: 10/100 BASE-T Ethernet	Link Speed and Auto negotiation Test FE IEEE 802.3 Annex-H	TEC ER No. TEC37682308
		Interface: 1G Optical Ethernet	Average Launch Power IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC37682308
			Receiver Sensitivity IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC37682308
			Wavelength IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC37682308
		Interface: 10 G Optical Ethernet	Average Launch Power IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC37682308
			Receiver Sensitivity IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC37682308
			Wavelength IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC37682308
		Interface: 100 G Optical Ethernet	Average Launch Power IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC37682308
			Receiver Sensitivity IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC37682308
			Wavelength IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC37682308
		Interface: 40 G Optical Ethernet	Average Launch Power IEEE 802.3ba Cl. 86 87 Annex-H	TEC ER No. TEC37682308
			Receiver Sensitivity IEEE 802.3ba Cl. 86 87 Annex-H	TEC ER No. TEC37682308
			Wavelength IEEE 802.3ba Cl. 86 87 Annex-H	TEC ER No. TEC37682308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	Interface: Fast Ethernet Optical	Average Launch Power IEEE 802.3u Annex-H	TEC ER No. TEC37682308
			Receiver Sensitivity IEEE 802.3u Annex-H	TEC ER No. TEC37682308
			Wavelength IEEE 802.3u Annex-H	TEC ER No. TEC37682308
		Interface: ISDN PRI	Bit Rate Tolerance for PRI ITU-T G.703 Clause no. 11.1 Annex-I	TEC ER No. TEC37682308
			Pulse Mask ITU-T G.703 Clause no. 11.2 Annex-I	TEC ER No. TEC37682308
			Input Return Loss ITU-T G.703 Clause no. 11.3 Annex-I	TEC ER No. TEC37682308
			Output Jitter ITU-T G.823 Clause no. 5.1 Annex-I	TEC ER No. TEC37682308
			Input Jitter Tolerance ITU-T G.823 Clause no. 7.1.2 Annex-I	TEC ER No. TEC37682308
			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 Annex-D1	TEC ER No. TEC37682308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	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 Annex-D1	TEC ER No. TEC37682308
		Interface: 2 Mbps -E1	Input Jitter Tolerance ITU-T G.823 ETSI TBR-4 Annex-I	TEC ER No. TEC37682308
			Input Return Loss ITU-T G.703 Annex-I	TEC ER No. TEC37682308
			Nominal Bit Rate with Tolerance ITU-T G.703 Annex-I	TEC ER No. TEC37682308
			Output Jitter ITU-T G.823 Annex-I	TEC ER No. TEC37682308
			Pulse Mask ITU-T G.703 Annex-I	TEC ER No. TEC37682308
		Interface: 34 Mbps -E3	Input Jitter Tolerance ITU-T G.823 Annex-I	TEC ER No. TEC37682308
			Input Return Loss ITU-T G.703 Annex-I	TEC ER No. TEC37682308
			Nominal Bit Rate with Tolerance ITU-T G.703 Annex-I	TEC ER No. TEC37682308
			Output Jitter ITU-T G.823 Annex-I	TEC ER No. TEC37682308
			Pulse Mask ITU-T G.703 Annex-I	TEC ER No. TEC37682308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	Interface: 45 Mbps	DC Power	TEC ER No. TEC37682308
			ITU-T G.703 Annex-I	
			Input Jitter Tolerance	TEC ER No. TEC37682308
			ITU-T G.824 Annex-I	
			Nominal Bit Rate with Tolerance ITU-T G.703 Annex-I	TEC ER No. TEC37682308
			Output Jitter	TEC ER No. TEC37682308
			ITU-T G.824 Annex-I	
			Pulse Mask	TEC ER No. TEC37682308
			ITU-T G.703 Annex-I	
		Interface: STM-1 Electrical	Input Jitter Tolerance	TEC ER No. TEC37682308
			ITU-T G.825 Annex-K	
			Input Return Loss	TEC ER No. TEC37682308
			ITU-T G.703 Annex-K	
			Nominal Bit Rate with Tolerance	TEC ER No. TEC37682308
			ITU-T G.703 Annex-K	
			Output Jitter	TEC ER No. TEC37682308
			ITU-T G.825 Annex-K	
			Pulse Mask	TEC ER No. TEC37682308
			ITU-T G.703 Annex-K	
		Interface: STM-1 Optical	Input Jitter Tolerance	TEC ER No. TEC37682308
			ITU-T G.825 Annex-K	
			Mean Launched Power	TEC ER No. TEC37682308
			ITU-T G.957 Annex-K	
			Nominal Bit Rate with Tolerance	TEC ER No. TEC37682308
			ITU-T G.957 Annex-K	
			Operating Wavelength Range	TEC ER No. TEC37682308
			ITU-T G.957 Annex-K	

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	Interface: STM-1 Optical	Output Jitter	TEC ER No. TEC37682308
			ITU-T G.783 Annex-K	
			Receiver Overload	TEC ER No. TEC37682308
			ITU-T G.957 Annex-K	
			Receiver Sensitivity	TEC ER No. TEC37682308
			ITU-T G.957 Annex-K	
		Interface: STM-4 Optical	Input Jitter Tolerance	TEC ER No. TEC37682308
			ITU-T G.825 Annex-K	
			Mean Launched Power	TEC ER No. TEC37682308
			ITU-T G.957 Annex-K	
			Nominal Bit Rate with Tolerance	TEC ER No. TEC37682308
			ITU-T G.957 Annex-K	
			Operating Wavelength Range	TEC ER No. TEC37682308
			ITU-T G.957 Annex-K	
			Output Jitter	TEC ER No. TEC37682308
			ITU-T G.783 Annex-K	
			Receiver Overload	TEC ER No. TEC37682308
			ITU-T G.957 Annex-K	
			Receiver Sensitivity	TEC ER No. TEC37682308
			ITU-T G.957 Annex-K	
		Interface: STM-16 Optical	Input Jitter Tolerance	TEC ER No. TEC37682308
			ITU-T G.825 Annex-K	
			Mean Launched Power	TEC ER No. TEC37682308
			ITU-T G.957 Annex-K	
			Nominal Bit Rate with Tolerance	TEC ER No. TEC37682308
			ITU-T G.957 Annex-K	
			Operating Wavelength Range	TEC ER No. TEC37682308
			ITU-T G.957 Annex-K	

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	Interface: STM-16 Optical	Output Jitter ITU-T G.783 Annex-K	TEC ER No. TEC37682308
			Receiver Overload ITU-T G.957 Annex-K	TEC ER No. TEC37682308
			Receiver Sensitivity ITU-T G.957 Annex-K	TEC ER No. TEC37682308
		Interface: STM-64 Optical	Input Jitter Tolerance ITU-T G.825 Annex-K	TEC ER No. TEC37682308
			Mean Launched Power ITU-T G.957 Annex-K	TEC ER No. TEC37682308
			Operating Wavelength Range ITU-T G.691 Annex-K	TEC ER No. TEC37682308
			Output Jitter ITU-T G.783 Annex-K	TEC ER No. TEC37682308
			Receiver Overload ITU-T G.691 Annex-K	TEC ER No. TEC37682308
			Receiver Sensitivity ITU-T G.691 Annex-K	TEC ER No. TEC37682308
2	IP Security Equipment (UTM, IPS, IDS, Firewall Equipment)	Parameters Linked with Product Variant	IPv4 Parameters RFC 791 (Conformance Testing)	TEC ER No. TEC34732305
			IPV6 Complete Suite RFC 2460 or 8200, RFC 4861, RFC 4862, RFC 1981, RFC 4443 (Conformance Testing)	TEC ER No. TEC34732305
			Manageability SNMP v2 or SNMP v3 RFC 3410, RFC 3416 (Functional Testing)	TEC ER No. TEC34732305

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	IP Security Equipment (UTM, IPS, IDS, Firewall Equipment)	Interface: 1 G Optical Ethernet	Average Launch Power IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC34732305
			Receiver Sensitivity IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC34732305
			Wavelength IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC34732305
		Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3 Annex-H	TEC ER No. TEC34732305
		Interface: 10/100 BASE-T Ethernet	Link Speed and Auto negotiation Test FE IEEE 802.3 Annex-H	TEC ER No. TEC34732305
		Interface: 10 G Optical Ethernet	Average Launch Power IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC34732305
			Receiver Sensitivity IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC34732305
			Wavelength IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC34732305
		Interface: 100 G Optical Ethernet	Average Launch Power IEEE 802.3ba Cl. 86 88 Annex-H	TEC ER No. TEC34732305
			Receiver Sensitivity IEEE 802.3ba Cl. 86 88 Annex-H	TEC ER No. TEC34732305
			Wavelength IEEE 802.3ba Cl. 86 88 Annex-H	TEC ER No. TEC34732305
		Interface: 40 G Optical Ethernet	Average Launch Power IEEE 802.3ba Cl. 86 87 Annex-H	TEC ER No. TEC34732305

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	IP Security Equipment (UTM, IPS, IDS, Firewall Equipment)	Interface: 40 G Optical Ethernet	Receiver Sensitivity IEEE 802.3ba Cl. 86 87 Annex-H	TEC ER No. TEC34732305
			Wavelength IEEE 802.3ba Cl. 86 87 Annex-H	TEC ER No. TEC34732305
		Interface: Fast Ethernet Optical	Average Launch Power IEEE 802.3u Annex-H	TEC ER No. TEC34732305
			Receiver Sensitivity IEEE 802.3u Annex-H	TEC ER No. TEC34732305
			Wavelength IEEE 802.3u Annex-H	TEC ER No. TEC34732305
3.	Transmission Terminal Equipment-1	Interface: GPON	Line Test for GPON Int. IEEE 802.3ah	TEC ER No. TEC78832308
			Operating Wavelength in upstream direction for GPON Int. ITU-T G.984.2, Cl. 8.2.5.2	TEC ER No. TEC78832308
			Operating Wavelength in downstream direction for GPON Int. ITU-T G.984.2, Cl. 8.2.5.1	TEC ER No. TEC78832308
			Opt. Output Power for GPON Int. at OLT G.984.2	TEC ER No. TEC78832308
			Opt. Output Power for GPON Int. at ONT G.984.2	TEC ER No. TEC78832308
			Receiver Sensitivity for GPON Int. at OLT G.984.2	TEC ER No. TEC78832308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Transmission Terminal Equipment-1	Interface: GPON	Receiver Sensitivity for GPON Int. at ONT G.984.2	TEC ER No. TEC78832308
			Throughput for GPON Int. G.984.1, RFC 2544	TEC ER No. TEC78832308
		Interface: 2 Wire	Idle State Current for 2 wire Int. ETSI EN 300 001 ETSI TBR-21 Cl. 4.4.1 Annex D	TEC ER No. TEC78832308
			Insulation Test for 2 wire Int. ETSI EN 300 001 Annex-D	TEC ER No. TEC78832308
			Longitudinal Conversion Loss for 2W Int. Q.552 Cl. 2.2.2 Annex-D	TEC ER No. TEC78832308
			Maximum Loop Current for 2W Int. ETSI EN 300 001 ETSI TBR-21, Cl.4.4.3 Annex-D	TEC ER No. TEC78832308
			Return Loss for 2W Int. Q.552 Cl. 2.2.1.2 Annex-D	TEC ER No. TEC78832308
		Interface: 1 G Optical Ethernet	Average Launch Power IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC78832308
			Receiver Sensitivity IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC78832308
			Wavelength IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC78832308
		Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3 Annex-H	TEC ER No. TEC78832308

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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-110 002

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	Transmission Terminal Equipment-1	Interface: 10/100 BASE-T Ethernet	Link Speed and Auto negotiation Test FE IEEE 802.3	TEC ER No. TEC78832308
		Interface: 10 G Optical Ethernet	Average Launch Power IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC78832308
			Receiver Sensitivity IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC78832308
			Wavelength IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC78832308
		Interface: ISDN PRI	Bit Rate Tolerance for PRI ITU-T G.703 Clause no. 11.1 Annex-I	TEC ER No. TEC78832308
			Pulse Mask ITU-T G.703 Clause no. 11.2 Annex-I	TEC ER No. TEC78832308
			Input Return Loss ITU-T G.703 Clause no. 11.3 Annex-I	TEC ER No. TEC78832308
			Output Jitter ITU-T G.823 Clause no. 5.1 Annex-I	TEC ER No. TEC78832308
			Input Jitter Tolerance ITU-T G.823 Clause no. 7.1.2 Annex-I	TEC ER No. TEC78832308
			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 Annex-D1	TEC ER No. TEC78832308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Transmission Terminal Equipment-1	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 Annex-D1	TEC ER No. TEC78832308
		Interface: 2 Mbps-E1	Input Jitter Tolerance ITU-T G.823 ETSI TBR-4 Annex-I	TEC ER No. TEC78832308
			Input Return Loss ITU-T G.703 Annex-I	TEC ER No. TEC78832308
			Nominal Bit Rate with Tolerance ITU-T G.703 Annex-I	TEC ER No. TEC78832308
			Output Jitter ITU-T G.823 Annex-I	TEC ER No. TEC78832308
			Pulse Mask ITU-T G.703 Annex-I	TEC ER No. TEC78832308
		Interface: 34 Mbps-E3	Input Jitter Tolerance ITU-T G.823 Annex-I	TEC ER No. TEC78832308
			Input Return Loss ITU-T G.703 Annex-I	TEC ER No. TEC78832308
			Nominal Bit Rate with Tolerance ITU-T G.703 Annex-I	TEC ER No. TEC78832308
			Output Jitter ITU-T G.823 Annex-I	TEC ER No. TEC78832308
			Pulse Mask ITU-T G.703 Annex-I	TEC ER No. TEC78832308
		Interface: 45 Mbps	DC Power ITU-T G.703 Annex-I	TEC ER No. TEC78832308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Transmission Terminal Equipment-1	Interface: 45 Mbps	Input Jitter Tolerance ITU-T G.824 Annex-I	TEC ER No. TEC78832308
			Nominal Bit Rate with Tolerance ITU-T G.703 Annex-I	TEC ER No. TEC78832308
			Output Jitter ITU-T G.824 Annex-I	TEC ER No. TEC78832308
			Pulse Mask ITU-T G.703 Annex-I	TEC ER No. TEC78832308
		Interface: STM-1 Electrical	Input Jitter Tolerance ITU-T G.825 Annex-K	TEC ER No. TEC78832308
			Input Return Loss ITU-T G.703 Annex-K	TEC ER No. TEC78832308
			Nominal Bit Rate with Tolerance ITU-T G.703 Annex-K	TEC ER No. TEC78832308
			Output Jitter ITU-T G.825 Annex-K	TEC ER No. TEC78832308
			Pulse Mask ITU-T G.703 Annex-K	TEC ER No. TEC78832308
		Interface: STM-1 Optical	Input Jitter Tolerance ITU-T G.825 Annex-K	TEC ER No. TEC78832308
			Mean Launched Power ITU-T G.957 Annex-K	TEC ER No. TEC78832308
			Nominal Bit Rate with Tolerance ITU-T G.957 Annex-K	TEC ER No. TEC78832308
			Operating Wavelength Range ITU-T G.957 Annex-K	TEC ER No. TEC78832308
			Output Jitter ITU-T G.783 Annex-K	TEC ER No. TEC78832308

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	Transmission Terminal Equipment-1	Interface: STM-1 Optical	Receiver Overload	TEC ER No. TEC78832308
			ITU-T G.957 Annex-K	
		Interface: STM-4 Optical	Receiver Sensitivity	TEC ER No. TEC78832308
			ITU-T G.957 Annex-K	
			Input Jitter Tolerance	TEC ER No. TEC78832308
			ITU-T G.825 Annex-K	
			Mean Launched Power	TEC ER No. TEC78832308
			ITU-T G.957 Annex-K	
			Nominal Bit Rate with Tolerance	TEC ER No. TEC78832308
			ITU-T G.957 Annex-K	
			Operating Wavelength Range	TEC ER No. TEC78832308
			ITU-T G.957 Annex-K	
			Output Jitter	TEC ER No. TEC78832308
			ITU-T G.783 Annex-K	
			Receiver Overload	TEC ER No. TEC78832308
			ITU-T G.957 Annex-K	
			Receiver Sensitivity	TEC ER No. TEC78832308
			ITU-T G.957 Annex-K	
		Interface: STM-16 Optical	Input Jitter Tolerance	TEC ER No. TEC78832308
			ITU-T G.825 Annex-K	
			Mean Launched Power	TEC ER No. TEC78832308
			ITU-T G.957 Annex-K	
			Nominal Bit Rate with Tolerance	TEC ER No. TEC78832308
			ITU-T G.957 Annex-K	
			Operating Wavelength Range	TEC ER No. TEC78832308
			ITU-T G.957 Annex-K	
			Output Jitter	TEC ER No. TEC78832308
			ITU-T G.783 Annex-K	

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	Transmission Terminal Equipment-1	Interface: STM-16 Optical	Receiver Overload ITU-T G.957 Annex-K	TEC ER No. TEC78832308
			Receiver Sensitivity ITU-T G.957 Annex-K	TEC ER No. TEC78832308
		Interface: STM-64 Optical	Input Jitter Tolerance ITU-T G.825 Annex-K	TEC ER No. TEC78832308
			Mean Launched Power ITU-T G.691 Annex-K	TEC ER No. TEC78832308
			Operating Wavelength Range ITU-T G.691 Annex-K	TEC ER No. TEC78832308
			Output Jitter ITU-T G.783 Annex-K	TEC ER No. TEC78832308
			Receiver Overload ITU-T G.691 Annex-K	TEC ER No. TEC78832308
			Receiver Sensitivity ITU-T G.691 Annex-K	TEC ER No. TEC78832308
		Interface: OTU-1	Central Frequency ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC78832308
			Input Jitter Tolerance ITU-T G.8251 Annex-L	TEC ER No. TEC78832308
			Input Jitter Tolerance ITU-T G.8251 Annex-L	TEC ER No. TEC78832308
			Mean Total Input Power ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC78832308
			Mean Total Output Power ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC78832308
			Nominal Bit Rate with Tolerance ITU-T G.709 Annex-L	TEC ER No. TEC78832308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Transmission Terminal Equipment-1	Interface: OTU-1	Output Jitter ITU-T G.8251 Annex-L	TEC ER No. TEC78832308
			Receiver Sensitivity ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC78832308
		Interface: OTU-2	Central Frequency ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC78832308
			Input Jitter Tolerance ITU-T G.8251 Annex-L	TEC ER No. TEC78832308
			Mean Total Input Power ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC78832308
			Mean Total Output Power ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC78832308
			Receiver Overload ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC78832308
			Nominal Bit Rate with Tolerance ITU-T G.709 Annex-L	TEC ER No. TEC78832308
			Output Jitter ITU-T G.8251 Annex-L	TEC ER No. TEC78832308
			Receiver Sensitivity ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC78832308
4	Transmission Terminal Equipment-2	Parameters Linked with Product Variant	Channel spacing for 10G/40G/100G DWDM ITU-T G.694.1	TEC ER No. TEC70122308
		Interface: 1 G Optical Ethernet	Average Launch Power IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC70122308
			Receiver Sensitivity IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC70122308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Transmission Terminal Equipment-2	Interface: 1 G Optical Ethernet	Wavelength IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC70122308
		Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3 Annex-H	TEC ER No. TEC70122308
		Interface: 10/100 BASE-T Ethernet	Link Speed and Auto negotiation Test FE IEEE 802.3 Annex-H	TEC ER No. TEC70122308
		Interface: 10 G Optical Ethernet	Average Launch Power IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC70122308
			Receiver Sensitivity IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC70122308
			Wavelength IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC70122308
		Interface: 100 G Optical Ethernet	Average Launch Power IEEE 802.3ba Cl. 86 88 Annex-H	TEC ER No. TEC70122308
			Receiver Sensitivity IEEE 802.3ba Cl. 86 88 Annex-H	TEC ER No. TEC70122308
			Wavelength IEEE 802.3ba Cl. 86 88 Annex-H	TEC ER No. TEC70122308
		Interface: 40 G Optical Ethernet	Average Launch Power IEEE 802.3ba Cl. 86 87 Annex-H	TEC ER No. TEC70122308
			Receiver Sensitivity IEEE 802.3ba Cl. 86 87 Annex-H	TEC ER No. TEC70122308
			Wavelength IEEE 802.3ba Cl. 86 87 Annex-H	TEC ER No. TEC70122308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Transmission Terminal Equipment-2	Interface: ISDN PRI	
		Bit Rate Tolerance for PRI ITU-T G.703 Clause no. 11.1 Annex-I	TEC ER No. TEC70122308
		Pulse Mask ITU-T G.703 Clause no. 11.2 Annex-I	TEC ER No. TEC70122308
		Input Return Loss ITU-T G.703 Clause no. 11.3 Annex-I	TEC ER No. TEC70122308
		Output Jitter ITU-T G.823 Clause no. 5.1 Annex-I	TEC ER No. TEC70122308
		Input Jitter Tolerance ITU-T G.823 Clause no. 7.1.2 Annex-I	TEC ER No. TEC70122308
		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 Annex-D1	TEC ER No. TEC70122308
		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 Annex-D1	TEC ER No. TEC70122308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Transmission Terminal Equipment-2	Interface: STM-1 Electrical	Input Jitter Tolerance ITU-T G.825 Annex-K	TEC ER No. TEC70122308
			Input Return Loss ITU-T G.703 Annex-K	TEC ER No. TEC70122308
			Nominal Bit Rate with Tolerance ITU-T G.703 Annex-K	TEC ER No. TEC70122308
			Output Jitter ITU-T G.825 Annex-K	TEC ER No. TEC70122308
			Pulse Mask ITU-T G.703 Annex-K	TEC ER No. TEC70122308
		Interface: STM-1 Optical	Input Jitter Tolerance ITU-T G.825 Annex-K	TEC ER No. TEC70122308
			Mean Launched Power ITU-T G.957 Annex-K	TEC ER No. TEC70122308
			Nominal Bit Rate with Tolerance ITU-T G.957 Annex-K	TEC ER No. TEC70122308
			Operating Wavelength Range ITU-T G.957 Annex-K	TEC ER No. TEC70122308
			Output Jitter ITU-T G.783 Annex-K	TEC ER No. TEC70122308
			Receiver Overload ITU-T G.957 Annex-K	TEC ER No. TEC70122308
			Receiver Sensitivity ITU-T G.957 Annex-K	TEC ER No. TEC70122308
		Interface: STM-4 Optical	Input Jitter Tolerance ITU-T G.825 Annex-K	TEC ER No. TEC70122308
			Mean Launched Power ITU-T G.957 Annex-K	TEC ER No. TEC70122308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Transmission Terminal Equipment-2	Interface: STM-4 Optical	Nominal Bit Rate with Tolerance	TEC ER No. TEC70122308
			ITU-T G.957 Annex-K	
			Operating Wavelength Range	TEC ER No. TEC70122308
			ITU-T G.957 Annex-K	
			Output Jitter	TEC ER No. TEC70122308
			ITU-T G.783 Annex-K	
		Interface: STM-16 Optical	Receiver Overload	TEC ER No. TEC70122308
			ITU-T G.957 Annex-K	
			Receiver Sensitivity	TEC ER No. TEC70122308
			ITU-T G.957 Annex-K	
			Input Jitter Tolerance	TEC ER No. TEC70122308
			ITU-T G.825 Annex-K	
			Mean Launched Power	TEC ER No. TEC70122308
			ITU-T G.957 Annex-K	
			Nominal Bit Rate with Tolerance	TEC ER No. TEC70122308
			ITU-T G.957 Annex-K	
			Operating Wavelength Range	TEC ER No. TEC70122308
			ITU-T G.957 Annex-K	
			Output Jitter	TEC ER No. TEC70122308
			ITU-T G.783 Annex-K	
		Interface: STM-64 Optical	Receiver Overload	TEC ER No. TEC70122308
			ITU-T G.957 Annex-K	
			Receiver Sensitivity	TEC ER No. TEC70122308
			ITU-T G.957 Annex-K	
			Input Jitter Tolerance	TEC ER No. TEC70122308
			ITU-T G.825 Annex-K	
			Mean Launched Power	TEC ER No. TEC70122308
			ITU-T G.691 Annex-K	

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	Transmission Terminal Equipment-2	Interface: STM-64 Optical	Operating Wavelength Range	TEC ER No. TEC70122308
			ITU-T G.691 Annex-K	
			Output Jitter	TEC ER No. TEC70122308
			ITU-T G.783 Annex-K	
		Interface: OTU-1	Receiver Overload	TEC ER No. TEC70122308
			ITU-T G.691 Annex-K	
			Receiver Sensitivity	TEC ER No. TEC70122308
			ITU-T G.691 Annex-K	
			Central Frequency	TEC ER No. TEC70122308
			ITU-T G.959.1, G.693 Annex-L	
			Input Jitter Tolerance	TEC ER No. TEC70122308
			ITU-T G.8251 Annex-L	
			Input Jitter Tolerance	TEC ER No. TEC70122308
			ITU-T G.8251 Annex-L	
			Mean Total Input Power	TEC ER No. TEC70122308
			ITU-T G.959.1, G.693 Annex-L	
			Mean Total Output Power	TEC ER No. TEC70122308
			ITU-T G.959.1, G.693 Annex-L	
			Nominal Bit Rate with Tolerance	TEC ER No. TEC70122308
			ITU-T G.709 Annex-L	
		Interface: OTU-2	Output Jitter	TEC ER No. TEC70122308
			ITU-T G.8251 Annex-L	
			Receiver Sensitivity	TEC ER No. TEC70122308
			ITU-T G.959.1, G.693 Annex-L	
		Interface: OTU-2	Central Frequency	TEC ER No. TEC70122308
			ITU-T G.959.1, G.693 Annex-L	
			Input Jitter Tolerance	TEC ER No. TEC70122308
			ITU-T G.8251 Annex-L	

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



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-110 002**

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

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Transmission Terminal Equipment-2	Interface: OTU-2	Mean Total Input Power ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC70122308
			Mean Total Output Power ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC70122308
			Receiver Overload ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC70122308
			Nominal Bit Rate with Tolerance ITU-T G.709 Annex-L	TEC ER No. TEC70122308
			Output Jitter ITU-T G.8251 Annex-L	TEC ER No. TEC70122308
		Interface: OTU-3	Central Frequency ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC70122308
			Mean Total Input Power ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC70122308
			Mean Total Output Power ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC70122308
			Receiver Overload ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC70122308
			Nominal Bit Rate with Tolerance ITU-T G.709 Annex-L	TEC ER No. TEC70122308
			Receiver Sensitivity ITU-T G.959.1, G.693 Annex-L	TEC ER No. TEC70122308
		Interface: OTU-4	Central Frequency ITU-T G.959.1, G.695 Annex-L	TEC ER No. TEC70122308
			Mean Total Input Power ITU-T G.959.1, G.695 Annex-L	TEC ER No. TEC70122308
			Mean Total Output Power ITU-T G.959.1, G.695 Annex-L	TEC ER No. TEC70122308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
5	Transmission Terminal Equipment-2 PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: OTU-4	Nominal Bit Rate with Tolerance ITU-T G.709 Annex-L Receiver Sensitivity ITU-T G.959.1, G.695 Annex-L
		Parameters Linked with Product Variants	TEC ER No. TEC70122308
			TEC ER No. TEC70122308
			TEC ER No. TEC14762308
			TEC ER No. TEC14762308
			TEC ER No. TEC14762308
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			TEC ER No. TEC14762308
			TEC ER No. TEC14762308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	PON Family of Broadband Equipment (ONT, ONU, OLT)	Parameters Linked with Product Variants	Switch Fabric throughput capability OLT G.984.1	TEC ER No. TEC14762308
			Throughput of PON RFC 2544	TEC ER No. TEC14762308
			Frame loss of PON RFC 2544	TEC ER No. TEC14762308
			Latency of PON RFC 2544	TEC ER No. TEC14762308
			VLAN stacking to Network support at OLT G.984.1 IEEE 802.1Q	TEC ER No. TEC14762308
			MAC address learning and aging control G.984.1	TEC ER No. TEC14762308
			MAC learning support at OLT G.984.1	TEC ER No. TEC14762308
			Maximum Bandwidth Limiting/ Minimum Guaranteed Bandwidth in PON G.984.3-200803	TEC ER No. TEC14762308
			Minimum two Classification in PON G.984.3-200803	TEC ER No. TEC14762308
			Port ID based VLAN support at OLT G.984.1 IEEE 802.1Q	TEC ER No. TEC14762308
		Interface: EPON	Line Test for EPON Int. IEEE 802.3ah	TEC ER No. TEC14762308
			Operating Wavelength in downstream direction for EPON Int. IEEE 802.3ah	TEC ER No. TEC14762308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: EPON	Operating Wavelength in Upstream direction for EPON Int. IEEE 802.3ah	TEC ER No. TEC14762308
			Opt Output Power for EPON Int. at OLT IEEE 802.3ah	TEC ER No. TEC14762308
			Opt Output Power for EPON Int. at ONT IEEE 802.3ah	TEC ER No. TEC14762308
			Receiver Sensitivity for EPON Int. at OLT IEEE 802.3ah	TEC ER No. TEC14762308
			Receiver Sensitivity for EPON Int. at ONT IEEE 802.3ah	TEC ER No. TEC14762308
			Throughput for EPON Int. RFC 2544	TEC ER No. TEC14762308
		Interface: GPON	Line Test for GPON Int. IEEE 802.3ah	TEC ER No. TEC14762308
			Operating Wavelength in upstream direction for GPON Int. ITU-T G.984.2, Cl. 8.2.5.2	TEC ER No. TEC14762308
			Operating Wavelength in Downstream direction for GPON Int. ITU-T G.984.2, Cl. 8.2.5.1	TEC ER No. TEC14762308
			Opt Output Power for GPON Int. at OLT G.984.2	TEC ER No. TEC14762308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: GPON	Opt Output Power for GPON Int. at ONT G.984.2	TEC ER No. TEC14762308
			Receiver Sensitivity for GPON Int. at OLT G.984.2	TEC ER No. TEC14762308
			Receiver Sensitivity for GPON Int. at ONT G.984.2	TEC ER No. TEC14762308
			Throughput for GPON Int. G.984.1, RFC 2544	TEC ER No. TEC14762308
		Interface: NGPON2	Line Test for NGPON2 Int. IEEE 802.3ah	TEC ER No. TEC14762308
			Operating Wavelength in downstream direction for NGPON2 Int. G.989.2	TEC ER No. TEC14762308
			Operating Wavelength in Upstream direction for NGPON2 Int. G.989.2	TEC ER No. TEC14762308
			Opt Output Power for NGPON2 Int. at OLT G.989.2	TEC ER No. TEC14762308
			Opt Output Power for NGPON2 Int. at ONT G.989.2	TEC ER No. TEC14762308
			Receiver Sensitivity for NGPON2 Int. at OLT G.989.2	TEC ER No. TEC14762308
			Receiver Sensitivity for NGPON2 Int. at ONT G.989.2	TEC ER No. TEC14762308

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	PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: NGPON2	Throughput for NGPON2 Int. G.989.2	TEC ER No. TEC14762308
		Interface: WDMPON	Line Test for WDMPON Int. IEEE 802.3ah	TEC ER No. TEC14762308
			Operating Wavelength in downstream direction for WDMPON Int. G.694.1	TEC ER No. TEC14762308
			Operating Wavelength in upstream direction for WDMPON Int. G.694.1	TEC ER No. TEC14762308
			Opt Output Power for WDM PON Int. at OLT G.694.1	TEC ER No. TEC14762308
			Opt Output Power for WDM PON Int. at ONT G.694.1	TEC ER No. TEC14762308
			Receiver Sensitivity for WDM PON Int. at OLT G.694.1	TEC ER No. TEC14762308
			Receiver Sensitivity for WDM PON Int. at ONT G.694.1	TEC ER No. TEC14762308
			Throughput for WDM PON Int. G.694.1, RFC 2544	TEC ER No. TEC14762308
		Interface: XGPON	Line Test for XG PON Int. IEEE 802.3ah	TEC ER No. TEC14762308
			Operating Wavelength in downstream direction for XGPON Int. G.987.2	TEC ER No. TEC14762308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: XGPON	Operating Wavelength in upstream direction for XGPON Int. G.987.2	TEC ER No. TEC14762308
			Opt Output Power for XGPON Int. at OLT G.987.2	TEC ER No. TEC14762308
			Opt Output Power for XGPON Int. at ONT G.987.2	TEC ER No. TEC14762308
			Receiver Sensitivity for GPON Int. at OLT G.987.2	TEC ER No. TEC14762308
			Receiver Sensitivity for XGPON Int. at ONT G.987.2	TEC ER No. TEC14762308
			Throughput for XGPON Int. G.987.1, RFC 2544	TEC ER No. TEC14762308
		Interface: XGSPON	Line Test for XGSPON Int. IEEE 802.3ah	TEC ER No. TEC14762308
			Operating Wavelength in downstream direction for XGSPON Int. G.9807.1	TEC ER No. TEC14762308
			Operating Wavelength in upstream direction for XGSPON Int. G.9807.1	TEC ER No. TEC14762308
			Opt Output Power for XGSPON Int. at OLT G.9807.1	TEC ER No. TEC14762308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: XGSPON	Opt Output Power for XGSPON Int. at ONT G.9807.1	TEC ER No. TEC14762308
			Receiver Sensitivity for XGSPON Int. at OLT G.9807.1	TEC ER No. TEC14762308
			Receiver Sensitivity for XGSPON Int. at ONT G.9807.1	TEC ER No. TEC14762308
			Throughput for XGPON Int. G9807.1, RFC 2544	TEC ER No. TEC14762308
		Interface: 2 Wire	Idle State Current for 2 wire Int. ETSI EN 300 001 ETSI TBR-21 Cl. 4.4.1 Annex D	TEC ER No. TEC14762308
			Insulation Test for 2 wire Int. ETSI EN 300 001 Annex-D	TEC ER No. TEC14762308
			Longitudinal Conversion Loss for 2W Int. Q.552 Cl. 2.2.2 Annex-D	TEC ER No. TEC14762308
			Maximum Loop Current for 2W Int. ETSI EN 300 001 ETSI TBR-21, Cl.4.4.3 Annex-D	TEC ER No. TEC14762308
			Return Loss for 2W Int. Q.552 Cl. 2.2.1.2 Annex-D	TEC ER No. TEC14762308
		Interface: 1 G Optical Ethernet	Average Launch Power IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC14762308
			Receiver Sensitivity IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC14762308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: 1 G Optical Ethernet	Wavelength IEEE 802.3z Cl. 38 Annex-H	TEC ER No. TEC14762308
		Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3 Annex-H	TEC ER No. TEC14762308
		Interface: 10/ 100 BASE-T Ethernet	Link Speed and Auto negotiation Test FE IEEE 802.3 Annex-H	TEC ER No. TEC14762308
		Interface: 10 BASE-T Ethernet	Link Speed IEEE 802.3 Annex-H	TEC ER No. TEC14762308
		Interface: 10 G Optical Ethernet	Average Launch Power IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC14762308
			Receiver Sensitivity IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC14762308
			Wavelength IEEE 802.3ae Cl. 52 Annex-H	TEC ER No. TEC14762308
		Interface: 2 Mbps-E1	Input Jitter Tolerance ITU-T G.823 ETSI TBR-4 Annex-I	TEC ER No. TEC14762308
			Input Return Loss ITU-T G.703 Annex-I	TEC ER No. TEC14762308
			Nominal Bit Rate with Tolerance ITU-T G.703 Annex-I	TEC ER No. TEC14762308
			Output Jitter ITU-T G.823 Annex-I	TEC ER No. TEC14762308

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: 2 Mbps-E1	Pulse Mask ITU-T G.703 Annex-I	TEC ER No. TEC14762308
		Interface: STM-1 Optical	Input Jitter Tolerance ITU-T G.825 Annex-K	TEC ER No. TEC14762308
			Mean Launched Power ITU-T G.957 Annex-K	TEC ER No. TEC14762308
			Nominal Bit Rate with Tolerance ITU-T G.957 Annex-K	TEC ER No. TEC14762308
			Operating Wavelength Range ITU-T G.957 Annex-K	TEC ER No. TEC14762308
			Output Jitter ITU-T G.783 Annex-K	TEC ER No. TEC14762308
			Receiver Overload ITU-T G.957 Annex-K	TEC ER No. TEC14762308
			Receiver Sensitivity ITU-T G.957 Annex-K	TEC ER No. TEC14762308
6	PABX	Interface: Fast Ethernet Electrical	Link Speed and Auto negotiation Test FE IEEE 802.3 Annex-H	TEC ER No. TEC67292301
		Interface: Gigabit Ethernet Electrical	Link Speed and Auto negotiation Test GE IEEE 802.3 Annex-H	TEC ER No. TEC67292301
		Interface: 2-Wire Trunk	Current on Junction/ Trunk Line in PABX ETSI EN 300 001 Annex-D	TEC ER No. TEC67292301
			DC Resistance ETSI TBR-21 Clause 4.4.1 Annex-D	TEC ER No. TEC67292301

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	PABX	Interface: 2-Wire Trunk	Longitudinal Conversion Loss for 2W Trunk Int. Clause No. 2.2.2 & Figure-2 of ITU-T Q.552 Annex-D	TEC ER No. TEC67292301
			Resistance to Earth Clause No. 4.4.4 of ETSI TBR-21 Annex-D	TEC ER No. TEC67292301
			Return Loss for 2 W Trunk Int. Clause No. 2.2.1.2 & Figure-1 of ITU-T Q.552 Annex-D	TEC ER No. TEC67292301
			Transmission of DTMF Signalling Clause 6 & 7 of ITU-T Q.23 Annex-D	TEC ER No. TEC67292301
		Interface: ISDN PRI	Bit Rate Tolerance for PRI ITU-T G.703 Clause no. 11.1 Annex-I	TEC ER No. TEC67292301
			Pulse Mask ITU-T G.703 Clause no. 11.2 Annex-I	TEC ER No. TEC67292301
			Input Return Loss ITU-T G.703 Clause no. 11.3 Annex-I	TEC ER No. TEC67292301
			Output Jitter ITU-T G.823 Clause no. 5.1 Annex-I	TEC ER No. TEC67292301
			Input Jitter Tolerance ITU-T G.823 Clause no. 7.1.2 Annex-I	

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	PABX	Interface: ISDN PRI	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 Annex-D1	TEC ER No. TEC67292301
			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 Annex-D1	TEC ER No. TEC67292301
7	ISDN Customer Premises Equipment	Interface: Fast Ethernet Electrical	Link Speed and Auto negotiation Test FE IEEE 802.3 Annex-H	TEC ER No. TEC64732301
		Interface: Gigabit Ethernet Electrical	Link Speed and Auto negotiation Test GE IEEE 802.3 Annex-H	TEC ER No. TEC64732301
		Interface: 2-Wire Trunk	Current on Junction/ Trunk Line in PABX ETSI EN 300 001 Annex-D	TEC ER No. TEC64732301
			DC Resistance ETSI TBR-21 Clause 4.4.1 Annex-D	TEC ER No. TEC64732301

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	ISDN Customer Premises Equipment	Interface: 2-Wire Trunk	Longitudinal Conversion Loss for 2W Trunk Int. Clause No. 2.2.2 & Figure-2 of ITU-T Q.552 Annex-D	TEC ER No. TEC64732301
			Resistance to Earth Clause No. 4.4.4 of ETSI TBR-21 Annex-D	TEC ER No. TEC64732301
			Return Loss for 2 W Trunk Int. Clause No. 2.2.1.2 & Figure-1 of ITU-T Q.552 Annex-D	TEC ER No. TEC64732301
			Transmission of DTMF Signalling Clause 6 & 7 of ITU-T Q.23 Annex-D	TEC ER No. TEC64732301
		Interface: ISDN PRI	Bit Rate Tolerance for PRI ITU-T G.703 Clause no. 11.1 Annex-I	TEC ER No. TEC64732301
			Pulse Mask ITU-T G.703 Clause no. 11.2 Annex-I	TEC ER No. TEC64732301
			Input Return Loss ITU-T G.703 Clause no. 11.3 Annex-I	TEC ER No. TEC64732301
			Output Jitter ITU-T G.823 Clause no. 5.1 Annex-I	TEC ER No. TEC64732301
			Input Jitter Tolerance ITU-T G.823 Clause no. 7.1.2 Annex-I	TEC ER No. TEC64732301

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



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-110 002**

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

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Validity: 23/02/2024 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	ISDN Customer Premises Equipment	Interface: ISDN PRI	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 Annex-D1	TEC ER No. TEC64732301
			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 Annex-D1	TEC ER No. TEC64732301
8	2-Wire Telephone Equipment	Interface: 2 Wire	Idle State Current for 2 wire Int. ETSI EN 300 001 ETSI TBR-21 Cl. 4.4.1 Annex D	TEC ER No. TEC18352108
			Insulation Test for 2 wire Int. ETSI EN 300 001 Annex-D	TEC ER No. TEC18352108
			Longitudinal Conversion Loss for 2W Int. Q.552 Cl. 2.2.2 Annex-D	TEC ER No. TEC18352108
			Maximum Loop Current for 2W Int. ETSI EN 300 001 ETSI TBR-21, Cl.4.4.3 Annex-D	TEC ER No. TEC18352108
			Return Loss for 2W Int. Q.552 Cl. 2.2.1.2 Annex-D	TEC ER No. TEC18352108

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Validity: 23/02/2024 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
9	Conferencing Equipment	Parameters Linked with Product Variant	Voice Conference Verification (Functional Test)	TEC ER No. TEC12662108
		Interface: 2 Wire	Idle State Current for 2 wire Int. ETSI EN 300 001 ETSI TBR-21 Cl. 4.4.1 Annex D	TEC ER No. TEC12662108
			Insulation Test for 2 wire Int. ETSI EN 300 001 Annex-D	TEC ER No. TEC12662108
			Longitudinal Conversion Loss for 2W Int. Q.552 Cl. 2.2.2 Annex-D	TEC ER No. TEC12662108
			Maximum Loop Current for 2W Int. ETSI EN 300 001 ETSI TBR-21, Cl.4.4.3 Annex-D	TEC ER No. TEC12662108
			Return Loss for 2W Int. Q.552 Cl. 2.2.1.2 Annex-D	TEC ER No. TEC12662108
10	Cordless Telephone	Interface: 2 Wire	Idle State Current for 2 wire Int. ETSI EN 300 001 ETSI TBR-21 Cl. 4.4.1 Annex D	TEC ER No. TEC12672301
			Insulation Test for 2 wire Int. ETSI EN 300 001 Annex-D	TEC ER No. TEC12672301
			Longitudinal Conversion Loss for 2W Int. Q.552 Cl. 2.2.2 Annex-D	TEC ER No. TEC12672301
			Maximum Loop Current for 2W Int. ETSI EN 300 001 ETSI TBR-21, Cl.4.4.3 Annex-D	TEC ER No. TEC12672301

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Validity: 23/02/2024 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Cordless Telephone	Interface: 2 Wire	Return Loss for 2W Int. Q.552 Cl. 2.2.1.2 Annex-D	TEC ER No. TEC12672301
11	Feedback device	Parameters Linked with Product Variant	IPv6 as per RFC 2460 RFC 2460 / RFC 8200	TEC ER No. TEC23232106
			IPv6 Dual Stack as per RFC 4213	TEC ER No. TEC23232106

**Signed by Sanjay Bhardwaj
Date: 23-02-2024 11:03:07**

AD (CA), TEC

***The validity of Certificate is up to 22/02/2027 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. 1-50/2024-सी.ए./टी. ई. सी.

Dated: 21.03.2025

To,
M/s Compliance International Telecom Laboratories
(a Unit of Compliance International Pvt. Ltd.)
X -35, 3rd Floor, Okhla Phase –II, Delhi-110020.
Mob: +91- 9811156939
Email ID:- yadav@typeapproval.com

[Kind attention to Mr. Tukaram Yadav, Director]]

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 dated 23.02.2024.

2. Your application for enhancement of Scope of CAB Designation vide Application no. SW6876438150 dated 07.08.2024 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 dated 23.02.2024, valid upto 22.02.2027, submitted vide Application no. SW6876438150 dated 07.08.2024 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 “PABX, IoT Gateway, Soft switch, Session Board Controller & Equipment's Operating in 2.4 GHz and 5 GHz Band (Wi-Fi interface) and ECR Testing for PON Family of Broadband Equipment” 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 dated 23.02.2024 shall remain unchanged.

4. This is issued with the approval of Competent Authority.

Encl: as above

Digitally signed by
Sanjeev Kumar Arya
Date: 21-03-2025
14:53:37
(Sanjeev Kumar Arya)
Director (CA), TEC

Copy to:

1. DDG (NGN), DDG (IoT), DDG (MT) & DDG (FA), TEC, New Delhi for kind information and necessary action please.
2. DDG (NR)/DDG(ER)/DDG (WR)/DDG (SR) TEC for kind information please.

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(ANNEXURE)

Laboratory Name: M/s Compliance International Telecom Laboratories, New Delhi
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Certificate Number: TEC/MRA/CAB/IND-D/71

Page 1 of 10

Validity: 21/03/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
1.	IoT Gateway	Interface: LTE or LTE-A	Operating Frequency for LTE or LTE-A Interface NFAP. Annex-F
		Maximum Output Power 3GPP TS 36.521-1 Clause- 6.2.2/ EN 301 908-13 (LTE)Clause- 4.2.2	TEC ER No. TEC24492408
		Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 36.521-1 Clause- 7.5/ EN 301 908-13 (LTE)Clause- 4.2.6	TEC ER No. TEC24492408
		Receiver In-Band Blocking 3GPP TS 36.521-1 Clause- 7.6.1/ EN 301 908-13 (LTE)Clause- 4.2.7	TEC ER No. TEC24492408
		Receiver Reference Sensitivity Level 3GPP TS 36.521-1 Clause- 7.3/ EN 301 908-13 (LTE) Clause- 4.2.12	TEC ER No. TEC24492408
		Receiver Spurious Emission (Conducted) 3GPP TS 36.521-1 Clause- 7.9/ EN 301 908-13 (LTE) Clause- 4.2.10	TEC ER No. TEC24492408
		Spectrum Emissions Mask 3GPP TS 36.521-1 Clause- 6.6.2.1/ EN 301 908-13 (LTE) Clause- 4.2.3	TEC ER No. TEC24492408

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SCOPE OF DESIGNATION **(ANNEXURE)**

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

Page 2 of 10

Validity: 21/03/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	IoT Gateway	Interface: LTE or LTE-A	Spurious Emissions 3GPP TS 36.521-1 Clause- 6.6.3.1, 6.6.3.2, 6.6.3.3/ EN 301 908-13 (LTE) Clause- 4.2.4
		Interface: WCDMA or HSPA	Operating Frequency for WCDMA or HSPA Interface NFAP Annex F
			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/ EN 301 908-2 (UMTS) Clause- 4.2.7
			Receiver Reference sensitivity Level 3GPP TS 34.121-1 Clause- 6.2/ EN 301 908-2 (UMTS) Clause- 4.2.13
			Receiver Spurious Emissions 3GPP TS 34.121-1 Clause- 6.8/ EN 301 908-2 (UMTS) Clause- 4.2.10

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

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Validity: 21/03/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	IoT Gateway	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	TEC ER No. TEC24492408
		Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause- 5.4.3/ EN 301 908-2 (UMTS) Clause- 4.2.5	TEC ER No. TEC24492408
		Transmitter Spectrum Emissions Mask 3GPP TS 34.121-1 Clause- 5.9/ EN 301 908-2 (UMTS) Clause- 4.2.3	TEC ER No. TEC24492408
		Transmitter Spurious Emissions (Conducted) 3GPP TS 34.121-1 Clause- 5.11/ EN 301 908-2 (UMTS) Clause 4.2.4	TEC ER No. TEC24492408
		Interface: GSM or GPRS or EDGE Operating Frequency for GSM or GPRS or EDGE Interface NFAP. Annex-F	TEC ER No. TEC24492408
		Adjacent Channel Rejection (Speech Channels) 3GPP TS 51 010-1 Clause- 14.5.1/ EN 301 511 (GSM) Clause- 4.2.38	TEC ER No. TEC24492408

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Compliance International Telecom Laboratories, New Delhi
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X-35, 3rd Floor, Okhla Phase – II, Delhi- 110020.

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

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Validity: 21/03/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	IoT Gateway	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
			Frequency Error and Phase Error 3GPP TS 51 010-1 Clause- 13.16.1/ EN 301 511 (GSM) Clause- 4.2.4
			Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.4/ EN 301 511 (GSM) Clause- 4.2.6
			Output RF Spectrum 3GPP TS 51 010-1 Clause- 13.16.3/ EN 301 511 (GSM) Clause- 4.2.11
			Receiver blocking 3GPP TS 51 010-1 Clause- 14.7.1/ EN 301 511 (GSM) Clause- 4.2.20
			Reference Sensitivity Level (Speech Channels) 3GPP TS 51 010-1 Clause- 14.2.1/ EN 301 511 (GSM) Clause- 4.2.42
			Spurious Emissions (MS allocated a Channel) 3GPP TS 51 010-1 Clause- 12.1.1/ EN 301 511 (GSM) Clause- 4.2.12
			Spurious Emission (MS in Idle Mode) 3GPP TS 51 010-1 Clause- 12.1.2/ EN 301 511 (GSM) Clause- 4.2.13

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

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Validity: 21/03/2025 to 22/02/2027

Last Amended on: ----

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- 13.3/ EN 301 511 (GSM) Clause- 4.2.5	TEC ER No. TEC24492408
			Transmitter Maximum Output Power 3GPP TS 51 010-1 Clause- 13.16.2/ EN 301 511 (GSM) Clause- 4.2.10	TEC ER No. TEC24492408
		Parameters Linked with Product Variant	IoT Dev - Non-0 IMEI or MEID or Unique MAC Annex-M	TEC ER No. TEC24492408
			IPV6 Extn. Header Fragment Header RFC 8200, Clause-4.5	TEC ER No. TEC24492408
			PV6 Packet Size Issues Parameter RFC 8200, Clause-5	TEC ER No. TEC24492408
			IP V 4 Parameters SET-B RFC 791, Annex-P6	TEC ER No. TEC24492408
2.	Equipment's Operating in 2.4 GHz and 5 GHz Band	Interface: Wi-Fi	RF Output Power (Conducted Mode only) ETSI EN 300 328 V2.2.2 (2019 - 07), Clause-4.3.2.2	TEC ER No. TEC59432407
			Power Spectral Density (Conducted Mode only) ETSI EN 300 328 V2.2.2 (2019 - 07), Clause-4.3.2.3	TEC ER No. TEC59432407

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Validity: 21/03/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Equipment's Operating in 2.4 GHz and 5 GHz Band	Interface: Wi-Fi	
		Duty Cycle, Tx Sequence, Tx gap (Conducted Mode only) ETSI EN 300 328 V2.2.2 (2019-07) Clause - 4.3.2.4	TEC ER No. TEC59432407
		Medium Utilization (MU) Factor (Conducted Mode only) ETSI EN 300 328 V2.2.2 (2019-07) Clause - 4.3.2.5	TEC ER No. TEC59432407
		Adaptivity (Conducted Mode only) ETSI EN 300 328 V2.2.2 (2019-07) Clause - 4.3.2.6	TEC ER No. TEC59432407
		Occupied Channel Bandwidth (Conducted Mode only) EN 300 328 V2.2.2 (2019-07) Clause - 4.3.2.7	TEC ER No. TEC59432407
		Transmitter Unwanted Emission in OOB Domain (Conducted Mode only) ETSI EN 300 328 V2.2.2 (2019-07) Clause - 4.3.2.8	TEC ER No. TEC59432407
		Transmitter Unwanted Emissions in the Spurious Domain (Conducted Mode only) ETSI EN 300 328 V2.2.2 (2019-07) Clause - 4.3.2.9	TEC ER No. TEC59432407
		Receiver Spurious Emissions (Conducted Mode only) ETSI EN 300 328 V2.2.2 (2019-07) Clause- 4.3.2.10	TEC ER No. TEC59432407

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Validity: 21/03/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Equipment's Operating in 2.4 GHz and 5 GHz Band	Interface: Wi-Fi	
		Receiver Blocking (Conducted Mode only) ETSI EN 300 328 V2.2.2 (2019-07) Clause- 4.3.2.11	TEC ER No. TEC59432407
		Carrier Frequencies (Conducted Mode only) ETSI EN 301 893 V2.1.1 (2017-05) Clause- 4.2.1	TEC ER No. TEC59432407
		Nominal and Occupied Channel Bandwidth (Conducted Mode only) ETSI EN 301 893 V2.1.1 (2017-05) Clause - 4.2.2	TEC ER No. TEC59432407
		RF Output Power, Transmit Power Control (TPC), Power Density (Conducted Mode only) ETSI EN 301 893 V2.1.1 (2017-05) Clause - 4.2.3	TEC ER No. TEC59432407
		Transmitter Unwanted Emissions outside the 5 GHz RLAN Bands (Conducted Mode only) ETSI EN 301 893 V2.1.1 (2017-05) Clause - 4.2.4	TEC ER No. TEC59432407
		Transmitter Unwanted Emissions within the 5 GHz RLAN Bands (Conducted Mode only) ETSI EN 301 893 V2.1.1 (2017-05) Clause - 4.2.4	TEC ER No. TEC59432407

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Validity: 21/03/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Equipment's Operating in 2.4 GHz and 5 GHz Band	Interface: Wi-Fi	
		Receiver spurious emissions (Conducted Mode only) ETSI EN 301 893 V2.1.1 (2017-05) Clause- 4.2.5	TEC ER No. TEC59432407
		Adaptivity (Conducted Mode only) ETSI EN 301 893 V2.1.1 (2017-05) Clause - 4.2.7	TEC ER No. TEC59432407
		Receiver Blocking (Conducted Mode only) ETSI EN 301 893 V2.1.1 (2017-05); Clause- 4.2.8	TEC ER No. TEC59432407
		Designation of Center Frequencies and Frequency Error(Conducted Mode only) ETSI EN 302 502 V2.1.1 (2017-03) Clause-4.2.1	TEC ER No. TEC59432407
		Transmitter RF Output Power, EIRP, TPC and EIRP Spectral Density (Conducted Mode only) ETSI EN 302 502 V2.1.1 (2017-03) Clause 4.2.2, 4.2.4	TEC ER No. TEC59432407
		Transmitter Unwanted Emissions outside the 5725 MHz to 5875 MHz Band (Conducted Mode only) ETSI EN 302 502 V2.1.1 (2017-03) Clause - 4.2.3	TEC ER No. TEC59432407

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Validity: 21/03/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Equipment's Operating in 2.4 GHz and 5 GHz Band	Interface: Wi-Fi	
		Transmitter Unwanted Emissions within the 5725 MHz to 5875 MHz Band (Conducted Mode only) ETSI EN 302 502 V2.1.1 (2017-03) Clause - 4.2.3	TEC ER No. TEC59432407
		Receiver Spurious Emissions (Conducted Mode only) ETSI EN 302 502 V2.1.1 (2017-03) Clause-4.2.5	TEC ER No. TEC59432407
		Receiver Blocking (Conducted Mode only) ETSI EN 302 502 V2.1.1 (2017-03) Clause - 4.2.7	TEC ER No. TEC59432407
		Dynamic Frequency Selection (DFS) ETSI EN 302 502 V2.1.1 (2017-03) Clause - 4.2.6	TEC ER No. TEC59432407
		Dynamic Frequency Selection (DFS) ETSI EN 301 893 V2.1.1 (2017-05) Clause - 4.2.6	TEC ER No. TEC59432407
		User Access Restrictions ETSI EN 301 893 V2.1.1 (2017-05) Clause - 4.2.9	TEC ER No. TEC59432407
		User Access Restrictions ETSI EN 302 502 V2.1.1 (2017-03) Clause - 4.2.8	TEC ER No. TEC59432407

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

Page 10 of 10

Validity: 21/03/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
3.	Private Automatic Branch Exchange	Interface: - Gigabit Ethernet Electrical	DTMF Parameters Set-C RFC 4733. Annex-P8
			UDP Parameters RFC 768. Annex-P5
4.	Softswitch	Parameters Linked with Product Variants	IPV4 Parameters Set-C RFC 791, Annex-P6
5.	Session Border Controller	Parameters Linked with Product Variant	IPV4 Parameters Set-B RFC 791, Annex-P6
6.	PON Family of Broadband Equipment	Parameters Linked with Product Variant	ECR Testing TEC 74046 Annex-R

Digitally signed by
Rajeev Ranjan
Date: 21-03-2025
14:57:08

AD (CA), TEC

***The validity of Certificate is up to 22/02/2027 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. 1-98/2024-सी.ए./टी. ई. सी.

Dated: 16.04.2025

To,
M/s Compliance International Telecom Laboratories
(a Unit of Compliance International Pvt. Ltd.)
X -35, 3rd Floor, Okhla Phase –II, Delhi-110020.
Mob: +91- 9811156939
Email ID:- yadav@typeapproval.com

[Kind attention to Mr. Tukaram Yadav, Director]]

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 dated 23.02.2024.

2. Your application for enhancement of Scope of CAB Designation vide Application no. SW6876438150-M008_D001_A194-1729507637962 dated 21.10.2024 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 dated 23.02.2024, valid upto 22.02.2027, submitted vide Application no. SW6876438150-M008_D001_A194-1729507637962 dated 21.10.2024 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 “PON Family of Broadband Equipment-Inter-Operability Testing and Session Border Controller (SBC)” 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 dated 23.02.2024 shall remain unchanged.

4. This is issued with the approval of Competent Authority.

Encl: as above

Digitally signed by
Sanjeev Kumar Arya
Date: 16-04-2025
16:56:01

(Sanjeev Kumar Arya)
Director (CA), TEC

Copy to:

1. DDG (NGN), DDG (IoT), DDG (MT) & DDG (FA), TEC, New Delhi for kind information and necessary action please.
2. DDG (NR)/DDG(ER)/DDG (WR)/DDG (SR) TEC for kind information please.

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
(A Unit of M/s Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase – II, New Delhi- 110020.

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

Page 1 of 8

Validity: 16/04/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/ Specification
1.	PON Family of Broadband Equipment-Inter-Operability Testing	Interface: OLT & ONU	ONT must discover automatically on the OLT after connecting fiber having -9 dBm to -28 dBm optical Power ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Interface: OLT	ONT SN can be added manually without connecting fiber. ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Interface: OLT	ONT can be added and removed from the OLT. ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Interface: OLT	ONT can be activated and deactivated from the OLT/EMS /Third Party Database. ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Interface: OLT & ONU	Update of OMCI config for ONT ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
			ONT configuration via OMCI (All Standard ME Support) ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
			MIB reset functionality to be incorporated for any changes performed through OMCI ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
			ONT PON Tx power can be seen on the OLT after successful registration ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
			ONT PON Rx power can be seen on the OLT after successful registration ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407

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

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Validity: 16/04/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	PON Family of Broadband Equipment-Inter-Operability Testing	Interface: OLT & ONU ONT must report interface statistics related POTS, VEIP, Ethernet, FE /GE (number and type of Ethernet port ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Multi-Services with a Combination of TC-1, TC-2, TC-4, TC-3 and TC-5 (All kind of TCONT to be supported) ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Single UNI Port. Uni-VLAN based (No Translation). ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Multiport. Uni-VLAN Based (without translation) ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Multiport. No Uni-VLAN. One service per UNI port. C ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Voice service and IP host configuration using OMCI and verify E2E phone call using Pots ports ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Verify the configurability and support of Forward Error Correction for each type of ONT ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407

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

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Validity: 16/04/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	PON Family of Broadband Equipment-Inter-Operability Testing	Interface: OLT & ONU Verify the configurability and support of ONT operations for each type of ONT. (Supports all standard ME's for ONT management) ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Verify the configurability and support of ONT UNI port operations for each type of ONT. ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Verify the support of various Frame sizes 64- 1500 to Jumbo frame support using RFC-2544 ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Verify the support of configuration and working of AES on ONT ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Configure PPPoE service and verify bidirectional traffic of end-to-end PPPoE(with single TAG and Double TAG) ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Configure IPoE service and verify bidirectional traffic of end-to-end IPoE ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Multiservice on the Different UNI port (one untagged and many tagged services on each port) ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407

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SCOPE OF DESIGNATION **(ANNEXURE)**

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

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Validity: 16/04/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	PON Family of Broadband Equipment-Inter-Operability Testing	Interface: OLT & ONU	Verify Port Optical Characteristics on EMS ITU-T Rec G.984.x ; G.988 and TR-255
			Creation of Voice interfaces of ONT over OMCI ITU-T Rec G.984.x ; G.988 and TR-255
			Voice Sip Configuration profile, User Profile Creation, IP Host and POTS association to voice service. ITU-T Rec G.984.x ; G.988 and TR-255
			Voice Service Activation ITU-T Rec G.984.x ; G.988 and TR-255
			Voice Service Verification ITU-T Rec G.984.x ; G.988 and TR-255
			Deactivation of Voice service and IP host Modification/Update restrictions as applicable ITU-T Rec G.984.x ; G.988 and TR-255
			Sip profile Modification/Update ITU-T Rec G.984.x ; G.988 and TR-255
			Voice port and profiles deletion ITU-T Rec G.984.x ; G.988 and TR-255
			Configuration and update of static IP on IP Host Interface of ONT ITU-T Rec G.984.x ; G.988 and TR-255
			Basic 2-way call ITU-T Rec G.984.x ; G.988 and TR-255

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Validity: 16/04/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	PON Family of Broadband Equipment-Inter-Operability Testing	Interface: OLT & ONU Verify Call Disconnect by calling and called party ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Verify No Answer ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Verify short and long 2-way call ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		LOAa_06: PON cable Plug IN/OUT and SFP removal should initiate the message Transmission b/w OLT and ONU and ONU is not sending back to OLT and alarm is generated. ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Verify the configurability and support of ONU Single Homing on Type-B ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Verify the configurability and support of ONU IPv4 Traffic (Bridging or Routing) IPv4 Address allocation through DHCP Discover ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Verify the stability of All services (VoIP, Internet, IPTV) application service & SIP user data features in OLT/ONT activate/deactivate, reboot and power cycle ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407

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Validity: 16/04/2025 to 22/02/2027

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	PON Family of Broadband Equipment-Inter-Operability Testing	Interface: OLT & ONU	EMS /OLT should support One-to-one firmware upgrade for own & third party ONT's. Any S/W up gradation performed on ONT should not impact the existing configuration of ONT including services. ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Interface: OLT	All type of ONT which includes own manufactured along with the third party manufactured should be configured and operated through common EMS system ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		RG (Residential Gateway) Mode Test Case		
		Interface: OLT & ONU	Multi-Services with a Combination of (Committed, Assured and Non-assured components) and Triple play service with TCONT type of services. ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
			Verify Port Optical Characteristics on EMS (with ONT Monitor) ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
			Verify ONT Alarms at EMS like ONT LOS, Dying Gasp. ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
			Verify ONT events on EMS for every operation performed on ONT (Reboot, deactivate, delete, re-add, reactivate) ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407

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Validity: 16/04/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	PON Family of Broadband Equipment-Inter-Operability Testing	Interface: OLT & ONU Verify the configurability and support of Forward Error Correction for each type of ONT. (upstream and downstream enable and disable) ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Verify the configurability and support of ONT operations for each type of ONT. ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Verify the configurability and support of ONU IPv4 Traffic (Routing) IPv4 Address allocation through DHCP. ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Verify the support of various Frame sizes 64- 1500 or till 9k to Jumbo frame support using RFC-2544 ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Verify the support of configuration and working of AES on ONT ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Demonstrate Configuration of IPoE and verify IPoE capabilities ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407
		Verify the configurability and support of ONT operations of ONT. (Add, Activate, Edit, Reboot, Deactivate, Delete) based on serial number and registration ID ITU-T Rec G.984.x ; G.988 and TR-255	TEC ER No. TEC14762407

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Page 8 of 8

Validity: 16/04/2025 to 22/02/2027

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	PON Family of Broadband Equipment-Inter-Operability Testing	Interface: OLT & ONU	Verify the configurability and support of ONT port operations of ONT. (Activate, Edit, Deactivate) based on serial number and registration ID ITU-T Rec G.984.x ; G.988 and TR-255 TEC ER No. TEC14762407
			Verify Bi-directional traffic by assigning following WAN connection types: IPv4/IPv6/Static IP add and VLAN. ITU-T Rec G.984.x ; G.988 and TR-255 TEC ER No. TEC14762407
2.	Session Border Controller (SBC)	Parameters linked with Product Variant	RTCP Parameters Set-B RFC 3551. Annex-P3 TEC ER No. TEC67222401
			RTP Parameters Set-C RFC 3550. Annex-P2 TEC ER No. TEC67222401
			SCTP Parameters Set-B RFC 4960. Annex-P9 TEC ER No. TEC67222401
			SIP Parameters Set-C RFC 3261. Annex-P1 TEC ER No. TEC67222401

Digitally signed by
Rajeev Ranjan
Date: 16-04-2025
17:13:50

AD (CA), TEC

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