



**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: 23/02/2021

Valid Until: 22/02/2024

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

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

Signed for and on behalf of TEC


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

Certificate No: TEC/MRA/CAB/IND-D/71 dated 23/02/2021 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

Terms & Conditions

This certificate is issued as per the terms and conditions stipulated in the TEC Scheme for Designating Domestic Conformity Assessment Bodies and Certification Bodies for Conformity Assessment and Certification of Telecommunication Equipment Issue 2 No. TEC/DES-01/02.DEC.2017.

Some of the conditions are reiterated as under:

A. Obligations of the Designated CAB.

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

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



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

B. REFERENCE TO DESIGNATION STATUS

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

C. POST-DESIGNATION SURVEILLANCE

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

D. SUSPENSION OR WITHDRAWAL OF DESIGNATION

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

E. AMENDMENT TO THE SCHEME

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



SCOPE OF DESIGNATION
(Annexure)

Laboratory Name: M/s Compliance International Telecom Laboratories
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Validity: 23/02/2021 to 22/02/2024*

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. TEC37681911
		IPv4 Parameters	TEC ER No. TEC37681911
		RFC 791 (Conformance Testing)	TEC ER No. TEC37681911
		IPv6 Complete Suite	TEC ER No. TEC37681911
		RFC2460 or 8200, RFC4861, RFC 4862, RFC 1981, RFC 4443 (Conformance Testing)	TEC ER No. TEC37681911
		BGP for IPv6 RFC 2545 (Conformance Testing)	TEC ER No. TEC37681911
		BGP4 as per RFC 4271 and MBGP as per RFC 4760 (Conformance Testing)	TEC ER No. TEC37681911
		LDP as per RFC 5036 (Conformance Testing)	TEC ER No. TEC37681911
		Manageability SNMP v2 or v3 RFC 3410, RFC 3416 (Functional Testing)	TEC ER No. TEC37681911


Director (MRA), TEC


AD (MRA), TEC

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	Parameters Linked with Product Variants	OSPF v2 RFC 2328 (Conformance Testing)	TEC ER No. TEC37681911
			OSPF v3 RFC 2740 (Conformance Testing)	TEC ER No. TEC37681911
			Static Routing (Annex-P11)	TEC ER No. TEC37681911
			TCP Parameters RFC 793 (Conformance Testing)	TEC ER No. TEC37681911
		Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC37681911
		Interface: 10/100 BASE-T Ethernet	Link Speed and Auto negotiation Test FE IEEE 802.3	TEC ER No. TEC37681911
		Interface: 1G Optical Ethernet	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC37681911


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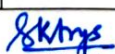
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	Interface: 10 G Optical Ethernet	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3ae Cl. 52	TEC ER No. TEC37681911
		Interface: 100 G Optical Ethernet	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3ba Cl. 86 88	TEC ER No. TEC37681911
		Interface: 40 G Optical Ethernet	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3ba Cl. 86 87	TEC ER No. TEC37681911
		Interface: Fast Ethernet Optical	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3u	TEC ER No. TEC37681911


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	Interface: ISDN PRI	Bit Rate Tolerance for PRI ITU-T G.703 Clause no. 11.1	TEC ER No. TEC37681911
			Pulse Mask ITU-T G.703 Clause no. 11.2	TEC ER No. TEC37681911
			Input Return Loss ITU-T G.703 Clause no. 11.3	TEC ER No. TEC37681911
			Output Jitter ITU-T G.823 Clause no. 5.1	TEC ER No. TEC37681911
			Input Jitter Tolerance ITU-T G.823 Clause no. 7.1.2	TEC ER No. TEC37681911



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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 Setup ITU-T Q.931 Clause no.3.1.1, 3.1.2, 3.1.3, 3.1.14, 3.1.15, 3.1.5, 3.1.9, 3.1.10, 4.5.5, 4.5.8, 4.5.10, 4.5.13, Table 6-5 for all call clearing message	TEC ER No. TEC37681911
			Layer-III PRI Specification - Call Clearing ITU-T Q.931 Clause no.3.1.1, 3.1.2, 3.1.3, 3.1.14, 3.1.15, 3.1.5, 3.1.9, 3.1.10, 4.5.5, 4.5.8, 4.5.10, 4.5.13, Table 6-5 for all call clearing message	TEC ER No. TEC37681911
		Interface: 2 Mbps - E1	Input Jitter Tolerance ITU-T G.823	TEC ER No. TEC37681911
			Input Return Loss ITU-T G.703	TEC ER No. TEC37681911
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER No. TEC37681911


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	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	Interface: 2 Mbps - E1	Output Jitter ITU-T G.823	TEC ER No. TEC37681911
			Pulse Mask ITU-T G.703	TEC ER No. TEC37681911
		Interface: 34 Mbps - E3	Input Jitter Tolerance ITU-T G.823	TEC ER No. TEC37681911
			Input Return Loss ITU-T G.703	TEC ER No. TEC37681911
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER No. TEC37681911
			Output Jitter ITU-T G.823	TEC ER No. TEC37681911
			Pulse Mask ITU-T G.703	TEC ER No. TEC37681911


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	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	Interface: 45 Mbps	DC Power ITU-T G.703	TEC ER No. TEC37681911
			Input Jitter Tolerance ITU-T G.824	TEC ER No. TEC37681911
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER No. TEC37681911
			Output Jitter ITU-T G.824	TEC ER No. TEC37681911
			Pulse Mask ITU-T G.703	TEC ER No. TEC37681911
		Interface: STM-1 Electrical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC37681911
			Input Return Loss ITU-T G.703	TEC ER No. TEC37681911
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER No. TEC37681911
			Output Jitter ITU-T G.825	TEC ER No. TEC37681911


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Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	Interface: STM-1 Electrical	Pulse Mask ITU-T G.703	TEC ER No. TEC37681911
	Interface: STM-1 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC37681911
		Mean Launched Power ITU-T G.957	TEC ER No. TEC37681911
		Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC37681911
		Operating Wavelength Range ITU-T G.957	TEC ER No. TEC37681911
		Output Jitter ITU-T G.783	TEC ER No. TEC37681911
		Receiver Overload ITU-T G.957	TEC ER No. TEC37681911
		Receiver Sensitivity ITU-T G.957	TEC ER No. TEC37681911


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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-4 Optical	
		Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC37681911
		Mean Launched Power ITU-T G.957	TEC ER No. TEC37681911
		Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC37681911
		Operating Wavelength Range ITU-T G.957	TEC ER No. TEC37681911
		Output Jitter ITU-T G.783	TEC ER No. TEC37681911
		Receiver Overload ITU-T G.957	TEC ER No. TEC37681911
		Receiver Sensitivity ITU-T G.957	TEC ER No. TEC37681911


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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	
		Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC37681911
		Mean Launched Power ITU-T G.957	TEC ER No. TEC37681911
		Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC37681911
		Operating Wavelength Range ITU-T G.957	TEC ER No. TEC37681911
		Output Jitter ITU-T G.783	TEC ER No. TEC37681911
		Receiver Overload ITU-T G.957	TEC ER No. TEC37681911
		Receiver Sensitivity ITU-T G.957	TEC ER No. TEC37681911


Director (MRA), TEC


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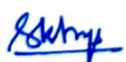
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	Interface: STM-64 Optical	Input Jitter Tolerance ITU-T G.825 TEC ER No. TEC37681911
			Mean Launched Power ITU-T G.957 TEC ER No. TEC37681911
			Operating Wavelength Range ITU-T G.691 TEC ER No. TEC37681911
			Output Jitter ITU-T G.783 TEC ER No. TEC37681911
			Receiver Overload ITU-T G.691 TEC ER No. TEC37681911
			Receiver Sensitivity ITU-T G.691 TEC ER No. TEC37681911


Director (MRA), TEC


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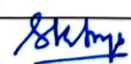
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
2.	IP Security Equipment (UTM, IPS, IDS, Firewall Equipment)	Parameters Linked with Product Variant	IPv4 Parameters RFC 791 (Conformance Testing)	TEC ER No. TEC34731911
			IPv6 Complete Suite RFC 2460 or 8200, RFC 4861, RFC 4862, RFC 1981, RFC 4443 (Conformance Testing)	TEC ER No. TEC34731911
		Parameters Linked with Product Variant	Manageability SNMP v2 or SNMP v3 RFC 3410, RFC 3416 (Functional Testing)	TEC ER No. TEC34731911
		Interface: 1 G Optical Ethernet	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC34731911
		Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC34731911


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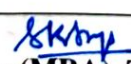
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	IP Security Equipment (UTM, IPS, IDS, Firewall Equipment)	Interface: 10/100 BASE-T Ethernet	Link Speed and Auto negotiation Test FE IEEE 802.3	TEC ER No. TEC34731911
		Interface: 10 G Optical Ethernet	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3ae Cl. 52	TEC ER No. TEC34731911
		Interface: 100 G Optical Ethernet	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3ba Cl. 86 88	TEC ER No. TEC34731911
		Interface: 40 G Optical Ethernet	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3ba Cl. 86 87	TEC ER No. TEC34731911
		Interface: Fast Ethernet Optical	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3u	TEC ER No. TEC34731911


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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
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3.	Transmission Terminal Equipment (SDH, DWDM, Multiplexing Equipment and DXC)	Parameters Linked with Product Variant	Channel spacing for 10G/40G/100G DWDM ITU-T G.658.1	TEC ER No. TEC78831911
		Interface: GPON	Line Test for GPON Int. IEEE 802.3ah	TEC ER No. TEC78831911
			Operating Wavelength Recv. for GPON Int. G.984.2 Cl. 8.2.5.2	TEC ER No. TEC78831911
			Operating Wavelength Trans. for GPON Int. G.984.2 Cl. 8.2.5.1	TEC ER No. TEC78831911
			Opt. Output Power for GPON Int. at OLT G.984.2	TEC ER No. TEC78831911
			Opt. Output Power for GPON Int. at ONT G.984.2	TEC ER No. TEC78831911
			Receiver Sensitivity for GPON Int. at OLT G.984.2	TEC ER No. TEC78831911


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Transmission Terminal Equipment (SDH, DWDM, Multiplexing Equipment and DXC)	Interface: GPON	Receiver Sensitivity for GPON Int. at ONT G.984.2	TEC ER No. TEC78831911
			Throughput for GPON Int. G.984.1, RFC 2544	TEC ER No. TEC78831911
		Interface: 2 Wire	Idle State Current for 2 wire Int. ETSI EN 300 001 ETSI TBR-21 Cl. 4.4.1	TEC ER No. TEC78831911
			Insulation Test for 2 wire Int. ETSI EN 300 001	TEC ER No. TEC78831911
			Longitudinal Conversion Loss for 2W Int. Q.552 Cl. 2.2.2.	TEC ER No. TEC78831911
			Maximum Loop Current for 2W Int. ETSI EN300 001 ETSI TBR-21 Cl.4.4.3	TEC ER No. TEC78831911
			Return Loss for 2W Int. Q.552 Cl. 2.2.1.2	TEC ER No. TEC78831911
		Interface: 1G Optical Ethernet	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC78831911


Director (MRA), TEC

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AD (MRA), TEC

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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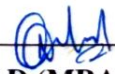
Validity: 23/02/2021 to 22/02/2024*

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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Transmission Terminal Equipment (SDH, DWDM, Multiplexing Equipment and DXC)	Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC78831911
	Interface: 10/100 BASE-T Ethernet	Link Speed and Auto negotiation Test FE IEEE 802.3	TEC ER No. TEC78831911
	Interface: 10 G Optical Ethernet	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3ae Cl. 52	TEC ER No. TEC78831911
	Interface: 100 G Optical Ethernet	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3ba Cl. 86 88	TEC ER No. TEC78831911
	Interface: 40 G Optical Ethernet	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3ba Cl. 86 87	TEC ER No. TEC78831911


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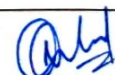
Validity: 23/02/2021 to 22/02/2024*

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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Transmission Terminal Equipment (SDH, DWDM, Multiplexing Equipment and DXC)	Interface: ISDN PRI	Bit Rate Tolerance for PRI ITU-T G.703 Clause no. 11.1	TEC ER No. TEC78831911
		Pulse Mask ITU-T G.703 Clause no. 11.2	TEC ER No. TEC78831911
		Input Return Loss ITU-T G.703 Clause no. 11.3	TEC ER No. TEC78831911
		Output Jitter ITU-T G.823 Clause no. 5.1	TEC ER No. TEC78831911
		Input Jitter Tolerance ITU-T G.823 Clause no. 7.1.2	TEC ER No. TEC78831911
		Layer-III PRI Specification - Call Setup ITU-T Q.931 Clause no. 3.1.1, 3.1.2, 3.1.3, 3.1.14, 3.1.15, 3.1.5, 3.1.9, 3.1.10, 4.5.5, 4.5.8, 4.5.10, 4.5.13, Table 6-5 for all call clearing message	TEC ER No. TEC78831911


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Validity: 23/02/2021 to 22/02/2024*

Last Amended on: ____

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Transmission Terminal Equipment (SDH, DWDM, Multiplexing Equipment and DXC)	Interface: ISDN PRI	Layer-III PRI Specification – Call Clearing ITU-T Q.931 Clause no. 3.1.1, 3.1.2, 3.1.3, 3.1.14, 3.1.15, 3.1.5, 3.1.9, 3.1.10, 4.5.5, 4.5.8, 4.5.10, 4.5.13, Table 6-5 for all call clearing message	TEC ER No. TEC78831911
			Interface: 2 Mbps-E1	Input Jitter Tolerance ITU-T G.823
		Interface: 2 Mbps-E1	Input Return Loss ITU-T G.703	TEC ER No. TEC78831911
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER No. TEC78831911
			Output Jitter ITU-T G.823	TEC ER No. TEC78831911
		Interface: 34 Mbps-E3	Pulse Mask ITU-T G.703	TEC ER No. TEC78831911
			Input Jitter Tolerance ITU-T G.823	TEC ER No. TEC78831911
			Input Return Loss ITU-T G.703	TEC ER No. TEC78831911


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	Transmission Terminal Equipment (SDH, DWDM, Multiplexing Equipment and DXC)	Interface: 34 Mbps-E3	Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER No. TEC78831911
			Output Jitter ITU-T G.823	TEC ER No. TEC78831911
			Pulse Mask ITU-T G.703	TEC ER No. TEC78831911
		Interface: 45 Mbps	DC Power ITU-T G.703	TEC ER No. TEC78831911
			Input Jitter Tolerance ITU-T G.824	TEC ER No. TEC78831911
		Interface: 45 Mbps	Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER No. TEC78831911
			Output Jitter ITU-T G.824	TEC ER No. TEC78831911
			Pulse Mask ITU-T G.703	TEC ER No. TEC78831911
		Interface: STM-1 Electrical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC78831911


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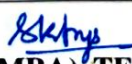
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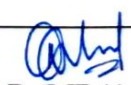
Validity: 23/02/2021 to 22/02/2024*

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	Transmission Terminal Equipment (SDH, DWDM, Multiplexing Equipment and DXC)	Interface: STM-1 Electrical	Input Return Loss ITU-T G.703	TEC ER No. TEC78831911
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER No. TEC78831911
			Output Jitter ITU-T G.825	TEC ER No. TEC78831911
			Pulse Mask ITU-T G.703	TEC ER No. TEC78831911
		Interface: STM-1 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC78831911
			Mean Launched Power ITU-T G.957	TEC ER No. TEC78831911
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC78831911
			Operating Wavelength Range ITU-T G.957	TEC ER No. TEC78831911
			Output Jitter ITU-T G.783	TEC ER No. TEC78831911
			Receiver Overload ITU-T G.957	TEC ER No. TEC78831911


Director (MRA), TEC


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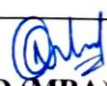
Validity: 23/02/2021 to 22/02/2024*

Last Amended on: ____

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
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Transmission Terminal Equipment (SDH, DWDM, Multiplexing Equipment and DXC)	Interface: STM-1 Optical	Receiver Sensitivity ITU-T G.957	TEC ER No. TEC78831911
	Interface: STM-4 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC78831911
		Mean Launched Power ITU-T G.957	TEC ER No. TEC78831911
		Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC78831911
		Operating Wavelength Range ITU-T G.957	TEC ER No. TEC78831911
		Output Jitter ITU-T G.783	TEC ER No. TEC78831911
		Receiver Overload ITU-T G.957	TEC ER No. TEC78831911
		Receiver Sensitivity ITU-T G.957	TEC ER No. TEC78831911
	Interface: STM-16 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC78831911


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	Transmission Terminal Equipment (SDH, DWDM, Multiplexing Equipment and DXC)	Interface: STM-16 Optical	Mean Launched Power ITU-T G.957	TEC ER No. TEC78831911
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC78831911
			Operating Wavelength Range ITU-T G.957	TEC ER No. TEC78831911
			Output Jitter ITU-T G.783	TEC ER No. TEC78831911
			Receiver Overload ITU-T G.957	TEC ER No. TEC78831911
			Receiver Sensitivity ITU-T G.957	TEC ER No. TEC78831911
		Interface: STM-64 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC78831911
			Mean Launched Power ITU-T G.691	TEC ER No. TEC78831911
			Operating Wavelength Range ITU-T G.691	TEC ER No. TEC78831911
			Output Jitter ITU-T G.783	TEC ER No. TEC78831911


Director (MRA), TEC


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SCOPE OF DESIGNATION **(Annexure)**

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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
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	Transmission Terminal Equipment (SDH, DWDM, Multiplexing Equipment and DXC)	Interface: STM-64 Optical	Receiver Overload ITU-T G.691	TEC ER No. TEC78831911
			Receiver Sensitivity ITU-T G.691	TEC ER No. TEC78831911
		Interface: OTU-1	Central Frequency ITU-T G.959.1, G.693	TEC ER No. TEC78831911
			Input Jitter Tolerance ITU-T G.8251	TEC ER No. TEC78831911
			Input Jitter Tolerance ITU-T G.8251	TEC ER No. TEC78831911
			Mean Total Input Power ITU-T G.959.1, G.693	TEC ER No. TEC78831911
			Mean Total Output Power ITU-T G.959.1, G.693	TEC ER No. TEC78831911
			Nominal Bit Rate with Tolerance ITU-T G.709	TEC ER No. TEC78831911
			Output Jitter ITU-T G.8251	TEC ER No. TEC78831911
			Receiver Sensitivity ITU-T G.959.1, G.693	TEC ER No. TEC78831911


Director (MRA), TEC


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

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	Transmission Terminal Equipment (SDH, DWDM, Multiplexing Equipment and DXC)	Interface: OTU-2	Central Frequency ITU-T G.959.1, G.693	TEC ER No. TEC78831911
			Input Jitter Tolerance ITU-T G.8251	TEC ER No. TEC78831911
			Mean Total Input Power ITU-T G.959.1, G.693	TEC ER No. TEC78831911
			Mean Total Output Power ITU-T G.959.1, G.693	TEC ER No. TEC78831911
			Receiver Overload ITU-T G.959.1, G.693	TEC ER No. TEC78831911
			Nominal Bit Rate with Tolerance ITU-T G.709	TEC ER No. TEC78831911
			Output Jitter ITU-T G.8251	TEC ER No. TEC78831911
			Receiver Sensitivity ITU-T G.959.1, G.693	TEC ER No. TEC78831911
		Interface: OTU-3	Central Frequency ITU-T G.959.1, G.693	TEC ER No. TEC78831911
			Mean Total Input Power ITU-T G.959.1, G.693	TEC ER No. TEC78831911


Director (MRA), TEC


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Laboratory Name: M/s Compliance International Telecom Laboratories
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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Transmission Terminal Equipment (SDH, DWDM, Multiplexing Equipment and DXC)	Interface: OTU-3	Mean Total Output Power ITU-T G.959.1, G.693	TEC ER No. TEC78831911
		Receiver Overload ITU-T G.959.1, G.693	TEC ER No. TEC78831911
		Nominal Bit Rate with Tolerance ITU-T G.709	TEC ER No. TEC78831911
		Receiver Sensitivity ITU-T G.959.1, G.693	TEC ER No. TEC78831911
	Interface: OTU-4	Central Frequency ITU-T G.959.1, G.695	TEC ER No. TEC78831911
		Mean Total Input Power ITU-T G.959.1, G.695	TEC ER No. TEC78831911
		Mean Total Output Power ITU-T G.959.1, G.695	TEC ER No. TEC78831911
		Nominal Bit Rate with Tolerance ITU-T G.709	TEC ER No. TEC78831911
		Receiver Sensitivity ITU-T G.959.1, G.695	TEC ER No. TEC78831911


Director (MRA), TEC


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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
4.	PON Family of Broadband Equipment (ONT, ONU, OLT)	Parameters Linked with Product Variants	
		Dual IP Layer Operation RFC 4213 – Address RFC 4213 Cl. 2.1 (Conformance Testing)	TEC ER No. TEC14761911
		Dual IP Layer Operation RFC 4213 – DNS RFC 4213 Cl. 2.2 (Conformance Testing)	TEC ER No. TEC14761911
		IPV4 Parameters Set-A RFC 791 Conformance Testing)	TEC ER No. TEC14761911
		IPV6 Extn. Header Parameters RFC 2460 / RFC 8200 (Conformance Testing)	TEC ER No. TEC14761911
		IPV6 Header Parameters RFC 2460 / RFC 8200 (Conformance Testing)	TEC ER No. TEC14761911
		MAC Address Limitation in PON IEEE 802.3	TEC ER No. TEC14761911
		Password based authentication in PON G.984.3	TEC ER No. TEC14761911


Director (MRA), TEC


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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
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	PON Family of Broadband Equipment (ONT, ONU, OLT)	Parameters Linked with Product Variants	DOS prevention SSHv1-2 for CLI in PON G.984.3	TEC ER No. TEC14761911
			MAC based 802.1x authentication in PON IEEE 802.1x	TEC ER No. TEC14761911
			Switch Fabric throughput capability OLT G.984.1	TEC ER No. TEC14761911
			Throughput of PON RFC 2544	TEC ER No. TEC14761911
			Frame loss of PON RFC 2544	TEC ER No. TEC14761911
			Latency of PON RFC 2544	TEC ER No. TEC14761911
			VLAN stacking to Network support at OLT G.984.1 IEEE 802.1Q	TEC ER No. TEC14761911


Director (MRA), TEC

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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	
		MAC address learning and aging control G.984.1	TEC ER No. TEC14761911
		MAC learning support at OLT G.984.1	TEC ER No. TEC14761911
		Maximum Bandwidth Limiting/ Minimum Guaranteed Bandwidth in PON G.984.3-200803	TEC ER No. TEC14761911
		Minimum two Classification in PON G.984.3-200803	TEC ER No. TEC14761911
		Port ID based VLAN support at OLT G.984.1 IEEE 802.1Q	TEC ER No. TEC14761911


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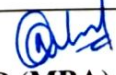
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: EPON	
		Line Test for EPON Int. IEEE 802.3ah	TEC ER No. TEC14761911
		Operating Wavelength Recv. for EPON Int. IEEE 802.3ah	TEC ER No. TEC14761911
		Operating Wavelength Trans for EPON Int. IEEE 802.3ah	TEC ER No. TEC14761911
		Opt Output Power for EPON Int. at OLT IEEE 802.3ah	TEC ER No. TEC14761911
		Opt Output Power for EPON Int. at ONT IEEE 802.3ah	TEC ER No. TEC14761911
		Receiver Sensitivity for EPON Int. at OLT IEEE 802.3ah	TEC ER No. TEC14761911
		Receiver Sensitivity for EPON Int. at ONT IEEE 802.3ah	TEC ER No. TEC14761911
		Throughput for EPON Int. RFC 2544	TEC ER No. TEC14761911


Director (MRA), TEC


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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	
		Line Test for GPON Int. IEEE 802.3ah	TEC ER No. TEC14761911
		Operating Wavelength Recv. for GPON Int. G.984.2 Cl. 8.2.5.2	TEC ER No. TEC14761911
		Operating Wavelength Trans for GPON Int. G.984.2 Cl. 8.2.5.1	TEC ER No. TEC14761911
		Opt Output Power for GPON Int. at OLT G.984.2	TEC ER No. TEC14761911
		Opt Output Power for GPON Int. at ONT G.984.2	TEC ER No. TEC14761911
		Receiver Sensitivity for GPON Int. at OLT G.984.2	TEC ER No. TEC14761911
		Receiver Sensitivity for GPON Int. at ONT G.984.2	TEC ER No. TEC14761911
		Throughput for GPON Int. G.984.1, RFC 2544	TEC ER No. TEC14761911


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: NGPON2	Line Test for NGPON2 Int. IEEE 802.3ah	TEC ER No. TEC14761911
			Operating Wavelength Recv. for NGPON2 Int. G.989.2	TEC ER No. TEC14761911
			Operating Wavelength Trans for NGPON2 Int. G.989.2	TEC ER No. TEC14761911
			Opt Output Power for NGPON2 Int. at OLT G.989.2	TEC ER No. TEC14761911
			Opt Output Power for NGPON2 Int. at ONT G.989.2	TEC ER No. TEC14761911
			Receiver Sensitivity for NGPON2 Int. at OLT G.989.2	TEC ER No. TEC14761911
			Receiver Sensitivity for NGPON2 Int. at ONT G.989.2	TEC ER No. TEC14761911
			Throughput for NGPON2 Int. G.989.2	TEC ER No. TEC14761911


Director (MRA), TEC


AD (MRA), TEC

***The validity of Certificate is up to 22/02/2024 or the continued validity of NABL Accreditation, whichever is earlier.**

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: 23/02/2021 to 22/02/2024*

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: WDMPON	Line Test for WDMPON Int. IEEE 802.3ah	TEC ER No. TEC14761911
		Operating Wavelength Recv. for WDMPON Int. G.694.1	TEC ER No. TEC14761911
		Operating Wavelength Trans for WDMPON Int. G.694.1	TEC ER No. TEC14761911
		Opt Output Power for WDM PON Int. at OLT G.694.1	TEC ER No. TEC14761911
		Opt Output Power for WDM PON Int. at ONT G.694.1	TEC ER No. TEC14761911
		Receiver Sensitivity for WDM PON Int. at OLT G.694.1	TEC ER No. TEC14761911
		Receiver Sensitivity for WDM PON Int. at ONT G.694.1	TEC ER No. TEC14761911
		Throughput for WDM PON Int. G.694.1, RFC 2544	TEC ER No. TEC14761911


Director (MRA), TEC


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SCOPE OF DESIGNATION
(Annexure)

Laboratory Name: M/s Compliance International Telecom Laboratories
(A unit of Compliance International Pvt. Ltd.)
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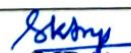
Certificate Number: TEC/MRA/CAB/IND-D/71

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: XGPON	Line Test for XG PON Int. IEEE 802.3ah
			TEC ER No. TEC14761911
			Operating Wavelength Recv. for XGPON Int. G.987.2
			TEC ER No. TEC14761911
			Operating Wavelength Trans for XGPON Int. G.987.2
			TEC ER No. TEC14761911
			Opt Output Power for XGPON Int. at OLT G.987.2
			TEC ER No. TEC14761911
			Opt Output Power for XGPON Int. at ONT G.987.2
			TEC ER No. TEC14761911
			Receiver Sensitivity for GPON Int. at OLT G.987.2
			TEC ER No. TEC14761911
			Receiver Sensitivity for XGPON Int. at ONT G.987.2
			TEC ER No. TEC14761911
			Throughput for XGPON Int. G.987.1, RFC 2544
			TEC ER No. TEC14761911


Director (MRA), TEC


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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: 23/02/2021 to 22/02/2024*

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: XGSPON	Line Test for XGSPON Int. IEEE 802.3ah	TEC ER No. TEC14761911
		Operating Wavelength Recv for XGSPON Int. G.9807.1	TEC ER No. TEC14761911
		Operating Wavelength Trans for XGSPON Int. G.9807.1	TEC ER No. TEC14761911
		Opt Output Power for XGSPON Int. at OLT G.9807.1	TEC ER No. TEC14761911
		Opt Output Power for XGSPON Int. at ONT G.9807.1	TEC ER No. TEC14761911
		Receiver Sensitivity for XGSPON Int. at OLT G.9807.1	TEC ER No. TEC14761911
		Receiver Sensitivity for XGSPON Int. at ONT G.9807.1	TEC ER No. TEC14761911
		Throughput for XGPON Int. G9807.1, RFC 2544	TEC ER No. TEC14761911


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION
(Annexure)

Laboratory Name: M/s Compliance International Telecom Laboratories
(A unit of Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase-II, New Delhi-110 002

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

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Validity: 23/02/2021 to 22/02/2024*

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
	PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: 2 Wire	Idle State Current for 2 wire Int. ETSI EN 300 001 ETSI TBR-21 Cl. 4.4.1	TEC ER No. TEC14761911
			Insulation Test for 2 wire Int. ETSI EN 300 001	TEC ER No. TEC14761911
			Longitudinal Conversion Loss for 2W Int. Q.552 Cl. 2.2.2.	TEC ER No. TEC14761911
			Maximum Loop Current for 2W Int. ETSI EN 300 001 ETSI TBR-21 Cl.4.4.3	TEC ER No. TEC14761911
			Return Loss for 2W Int. Q.552 Cl. 2.2.1.2	TEC ER No. TEC14761911
		Interface: 1 G Optical Ethernet	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC14761911
		Interface: 10/100/1000 BASE-T Ethernet	Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC14761911


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION
(Annexure)

Laboratory Name: M/s Compliance International Telecom Laboratories
(A unit of Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase-II, New Delhi-110 002

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

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Validity: 23/02/2021 to 22/02/2024*

Last Amended on: _____

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
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	PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: 10/ 100 BASE-T Ethernet	Link Speed and Auto negotiation Test FE IEEE 802.3	TEC ER No. TEC14761911
		Interface: 10 BASE-T Ethernet	Link Speed IEEE 802.3	TEC ER No. TEC14761911
		Interface: 10 G Optical Ethernet	Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3ae Cl. 52	TEC ER No. TEC14761911
		Interface: 2 Mbps-E1	Input Jitter Tolerance ITU-T G.823	TEC ER No. TEC14761911
			Input Return Loss ITU-T G.703	TEC ER No. TEC14761911
			Nominal Bit Rate with Tolerance ITU-T G.703	TEC ER No. TEC14761911
			Output Jitter ITU-T G.823	TEC ER No. TEC14761911
			Pulse Mask ITU-T G.703	TEC ER No. TEC14761911


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION
(Annexure)

Laboratory Name: M/s Compliance International Telecom Laboratories
(A unit of Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase-II, New Delhi-110 002

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Validity: 23/02/2021 to 22/02/2024*

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface: STM-1 Optical	Input Jitter Tolerance ITU-T G.825	TEC ER No. TEC14761911
			Mean Launched Power ITU-T G.957	TEC ER No. TEC14761911
			Nominal Bit Rate with Tolerance ITU-T G.957	TEC ER No. TEC14761911
			Operating Wavelength Range ITU-T G.957	TEC ER No. TEC14761911
			Output Jitter ITU-T G.783	TEC ER No. TEC14761911
			Receiver Overload ITU-T G.957	TEC ER No. TEC14761911
			Receiver Sensitivity ITU-T G.957	TEC ER No. TEC14761911
5.	PABX	Interface: Fast Ethernet Electrical (for PABX)	Link Speed and Auto negotiation Test FE IEEE 802.3	TEC ER No. TEC 67291911


Director (MRA), TEC


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SCOPE OF DESIGNATION (Annexure)

Laboratory Name: M/s Compliance International Telecom Laboratories
(A unit of Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase-II, New Delhi-110 002

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Validity: 23/02/2021 to 22/02/2024*

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	PABX	Interface: Gigabit Ethernet Electrical (for PABX)	Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC 67291911
		Interface: 2-Wire Trunk	Current on Junction/ Trunk Line in PABX ETSI EN 300 001	TEC ER No. TEC 67291911
			DC Resistance ETSI TBR-21 Clause 4.4.1	TEC ER No. TEC 67291911
			Longitudinal Conversion Loss for 2 W Trunk Int. Q.552 Clause 2.2.2 and Figure-2	TEC ER No. TEC 67291911
			Resistance to Earth ETSI TBR-21 Clause 4.4.4	TEC ER No. TEC 67291911
			Return Loss for 2 W Trunk Int. Q.552 Clause 2.2.1.2 and Figure-1	TEC ER No. TEC 67291911
			Transmission of DTMF Signals Q.23 Clause 6 and 7	TEC ER No. TEC 67291911
		Interface: ISDN PRI	Bit Rate Tolerance for PRI ITU-T G.703 Clause no. 11.1	TEC ER No. TEC 67291911



Director (MRA), TEC



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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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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	PABX	Interface: ISDN PRI	Pulse Mask ITU-T G.703 Clause no. 11.2	TEC ER No. TEC 67291911
			Input Return Loss ITU-T G.703 Clause no. 11.3	TEC ER No. TEC 67291911
			Output Jitter ITU-T G.823 Clause no. 5.1	TEC ER No. TEC 67291911
			Input Jitter Tolerance ITU-T G.823 Clause no. 7.1.2	TEC ER No. TEC 67291911
			Layer-III PRI Specification - Call Setup ITU-T Q.931 Clause no.3.1.1, 3.1.2, 3.1.3, 3.1.14, 3.1.15, 3.1.5, 3.1.9, 3.1.10, 4.5.5, 4.5.8, 4.5.10, 4.5.13, Table 6-5 for all call clearing message	TEC ER No. TEC 67291911

Director (MRA), TEC

AD (MRA), TEC

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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

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

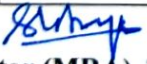
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Validity: 23/02/2021 to 22/02/2024*

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	PABX	Interface: ISDN PRI	Layer-III PRI Specification - Call Clearing ITU-T Q.931 Clause no.3.1.1, 3.1.2, 3.1.3, 3.1.14, 3.1.15, 3.1.5, 3.1.9, 3.1.10, 4.5.5, 4.5.8, 4.5.10, 4.5.13, Table 6-5 for all call clearing message	TEC ER No. TEC 67291911
6.	ISDN Customer Premises Equipment	Interface: Fast Ethernet Electrical	Link Speed and Auto negotiation Test FE IEEE 802.3	TEC ER No. TEC 64731911
		Interface: Gigabit Ethernet Electrical	Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC 64731911
		Interface: 2-Wire Trunk	Current on Junction/ Trunk Line in PABX ETSI EN 300 001	TEC ER No. TEC 64731911
			DC Resistance ETSI TBR-21 Clause 4.4.1	TEC ER No. TEC 64731911


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION
(Annexure)

Laboratory Name: M/s Compliance International Telecom Laboratories
(A unit of Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase-II, New Delhi-110 002

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

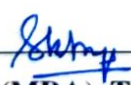
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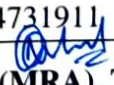
Validity: 23/02/2021 to 22/02/2024*

Last Amended on: ____

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	ISDN Customer Premises Equipment	Interface: 2-Wire Trunk	Longitudinal Conversion Loss for 2 W Trunk Int. Q.552 Clause 2.2.2 and Figure-2	TEC ER No. TEC 64731911
			Resistance to Earth ETSI TBR-21 Clause 4.4.4	TEC ER No. TEC 64731911
			Return Loss for 2 W Trunk Int. Q.552 Clause 2.2.1.2 and Figure-1	TEC ER No. TEC 64731911
			Transmission of DTMF Signals Q.23 Clause 6 and 7	TEC ER No. TEC 64731911
		Interface: ISDN PRI	Bit Rate Tolerance for PRI ITU-T G.703 Clause no. 11.1	TEC ER No. TEC 64731911
			Pulse Mask ITU-T G.703 Clause no. 11.2	TEC ER No. TEC 64731911
			Input Return Loss ITU-T G.703 Clause no. 11.3	TEC ER No. TEC 64731911
			Output Jitter ITU-T G.823 Clause no. 5.1	TEC ER No. TEC 64731911
			Input Jitter Tolerance ITU-T G.823 Clause no. 7.1.2	TEC ER No. TEC 64731911


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION **(Annexure)**

Laboratory Name: M/s Compliance International Telecom Laboratories
(A unit of Compliance International Pvt. Ltd.)
X-35, 3rd Floor, Okhla Phase-II, New Delhi-110 002

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Validity: 23/02/2021 to 22/02/2024*

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
		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
7.	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
		Interface: 2 Wire	Insulation Test for 2 wire Int. ETSI EN 300 001
		Interface: 2 Wire	Longitudinal Conversion Loss for 2W Int. Q.552 Cl. 2.2.2

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

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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	2-Wire Telephone Equipment	Interface: 2 Wire	Maximum Loop Current for 2W Int. ETSI EN 300 001 ETSI TBR-21 Cl.4.4.3	TEC ER No. TEC 18352006
			Return Loss for 2W Int. Q.552 Cl. 2.2.1.2	TEC ER No. TEC 18352006
8.	Conferencing Equipment	Parameters Linked with Product Variant	Voice Conference Verification (Functional Test)	TEC ER No. TEC 12661911
		Interface: 2 Wire	Idle State Current for 2 wire Int. ETSI EN 300 001 ETSI TBR-21 Cl. 4.4.1	TEC ER No. TEC 12661911
			Insulation Test for 2 wire Int. ETSI EN 300 001	TEC ER No. TEC 12661911
			Longitudinal Conversion Loss for 2W Int. Q.552 Cl. 2.2.2	TEC ER No. TEC 12661911
			Maximum Loop Current for 2W Int. ETSI EN 300 001 ETSI TBR-21 Cl.4.4.3	TEC ER No. TEC 12661911


Director (MRA), TEC


AD (MRA), TEC

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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

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

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Validity: 23/02/2021 to 22/02/2024*

Last Amended on: ____

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Conferencing Equipment	Interface: 2 Wire	Return Loss for 2W Int. Q.552 Cl. 2.2.1.2
9.	Cordless Telephone	Interface: 2 Wire	Idle State Current for 2 wire Int. ETSI EN 300 001 ETSI TBR-21 Cl. 4.4.1
			Insulation Test for 2 wire Int. ETSI EN 300 001
			Longitudinal Conversion Loss for 2W Int. Q.552 Cl. 2.2.2
			Maximum Loop Current for 2W Int. ETSI EN 300 001 ETSI TBR-21 Cl.4.4.3
			Return Loss for 2W Int. Q.552 Cl. 2.2.1.2
10.	Feedback device	Parameters Linked with Product Variant	IPv6 as per RFC 2460 RFC 2460 / RFC 8200
			IPv6 Dual Stack as per RFC 4213



Director (MRA), TEC



AD (MRA), TEC

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

No. 1-50/2018-MRA/TEC

Date: 03.09.2021

CORRIGENDUM

In partial modification of this office CAB Designation Certificate No. TEC/MRA/CAB/IND-D/71 dated 23.02.2021, Annexure (Scope of Designation), the test parameter "*Channel Spacing for 10G/40G/100G/DWDM ITU-T G.658.1*" applicable for Transmission Terminal Equipment ER (TEC 78831911) mentioned at Sl. no. 3 of page no. 14, may be read as "**Channel Spacing for 10G/40G/100G/DWDM ITU-T G.694.1**".

All other text of the CAB Designation Certificate, Scope of Designation and terms & conditions will remain unchanged.


(AD, MRA)

TEC, New Delhi
Tele no.: 23328691

To,

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