



**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 Criterion Network Labs, Bengaluru
has been assessed and designated as Conformity Assessment Body (CAB)

for its facilities at

Unit #3 Ground Floor, Explorer Building, ITPL, Whitefield, Bengaluru-560 066
In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/66

Issue Date: 02/12/2020

Valid Until: 01/12/2023

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/66 dated 02/12/2020 issued to
M/s Criterion Network Labs Unit #3 Ground Floor, Explorer Building, ITPL, Whitefield,
Bengaluru-560 066**

Terms & Conditions

This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESEMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESEMENT AND CERTIFICATION OF TELECOMMUNICATION EQUIPMENT ISSUE 2 NO. TEC/DES-01/02.DEC.2017.

Some of the conditions are reiterated as under:

A. Obligations of the Designated CAB.

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

P. Kumar
02/12/2020

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- 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

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

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.

P. Kaur
02/12/2020

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Criterion Network Labs
Unit #3 Ground Floor, Explorer Building, ITPL, Whitefield,
Bengaluru-560 066

Certificate Number: TEC/MRA/CAB/IND-D/66

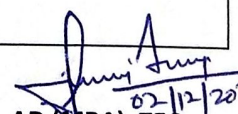
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Validity: 02/12/2020 to 01/12/2023

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-P11 (Functional Testing) IPv4 Parameters RFC 791 (Conformance Testing) IPv6 Complete Suite RFC 2460 or 8200, RFC 4861, RFC 4862, RFC 1981, RFC 4443 (Conformance Testing) BGP for IPv6 RFC 2545 (Conformance Testing) BGP4 and MBGP RFC 4271, RFC 4760 (Conformance Testing) LDP as per RFC 5036 (Conformance Testing) Manageability SNMP v2 or SNMP v3	TEC ER No. TEC 37681911


Director (MRA), TEC


AD (MRA), TEC

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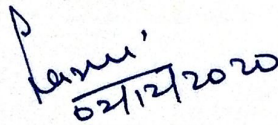
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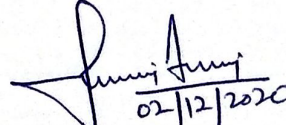
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Validity: 02/12/2020 to 01/12/2023

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	RFC 3410, RFC 3416 (Functional Testing) OSPF v2 RFC 2328 (Conformance Testing) OSPF v3 RFC 2740 (Conformance Testing) Static Routing Annex-P11 TCP Parameters RFC 793 (Conformance Testing) PPPoE RFC 2516 (Functional Testing) Radius RFC 2865 (Functional Testing)	TEC ER No. TEC 37681911


Director (MRA), TEC


AD (MRA), TEC

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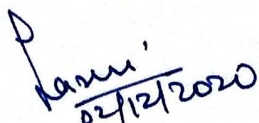
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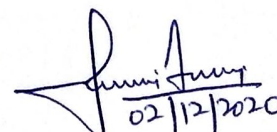
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Validity: 02/12/2020 to 01/12/2023

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Router (IPv4, IPv6, MPLS, BNG/BRAS Router)	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. TEC 37681911
		Interface- 10/100/1000 BASE-T Ethernet : Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC 37681911
		Interface 1G Optical Ethernet: Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC 37681911


02/12/2020
Director (MRA), TEC


02/12/2020
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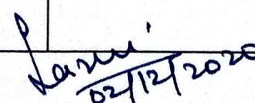
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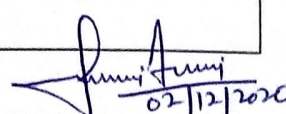
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Validity: 02/12/2020 to 01/12/2023

Last Amended on: ----

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. TEC 37681911
2.	IP Security Equipment (UTM, IPS, IDS, Firewall Equipment)	Parameters Linked with Product Variant: UTM URL Content & Anti-Virus Filtering Annex-P11 IDS Functional test Annex-P11 IPS Functional test Annex-P11 IPsec Functional test Annex-P11 IPv4 Parameters RFC 791 (Conformance Testing)	TEC ER No. TEC 34731911


Director (MRA), TEC


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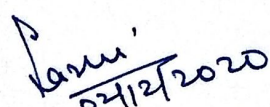
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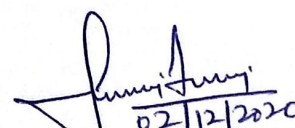
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Validity: 02/12/2020 to 01/12/2023

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IP Security Equipment (UTM, IPS, IDS, Firewall Equipment)	IPv6 RFC 2460 or 8200, RFC 4861, RFC 4862, RFC 1981, RFC 4443 (Conformance Testing) Manageability SNMP v2 or SNMP v3 RFC 3410, RFC 3416 (Functional Testing) Policy Functional test Annex-P11 NAT Functional test Annex-P11	TEC ER No. TEC 34731911
		Interface-1 G Optical Ethernet: Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC 34731911


Director (MRA), TEC


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Validity: 02/12/2020 to 01/12/2023

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	IP Security Equipment (UTM, IPS, IDS, Firewall Equipment)	Interface- 10/100/1000 BASE-T Ethernet : Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC 34731911
		Interface-10/100 BASE-T Ethernet: Link Speed and Auto negotiation Test FE IEEE 802.3	TEC ER No. TEC 34731911
		Interface- 10 G Optical Ethernet: Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3ae Cl. 52	TEC ER No. TEC 34731911


02/12/2020
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02/12/2020
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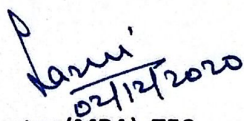
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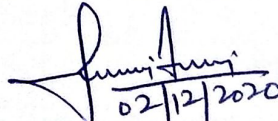
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Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
3.	PON Family of Broadband Equipment (ONT, ONU, OLT)	Parameters Linked with Product Variant: Dual IP Layer Operation RFC 4213 - Address RFC 4213 Cl. 2.1 (Conformance Testing) Dual IP Layer Operation RFC 4213 - DNS RFC 4213 Cl. 2.2 (Conformance Testing) IPv6 Extn Header Parameters RFC 2460 / RFC 8200 (Conformance Testing) IPv6 Header Parameters RFC 2460 / RFC 8200 (Conformance Testing)	TEC ER No. TEC 14761911


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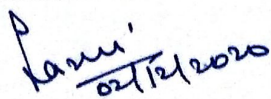
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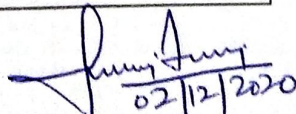
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	PON Family of Broadband Equipment (ONT, ONU, OLT)	Interface-1 G Optical Ethernet: Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3z Cl. 38	TEC ER No. TEC 14761911
		Interface- 10/100/1000 BASE-T Ethernet : Link Speed and Auto negotiation Test GE IEEE 802.3	TEC ER No. TEC 14761911
		Interface-10/100 BASE-T Ethernet: Link Speed and Auto negotiation Test FE 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


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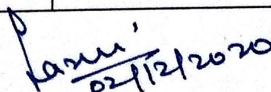
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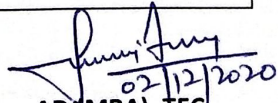
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Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
4.	LAN Switch	MAC Learning and Packet Forwarding Cl 3.1, Cl 8.2 (ix)	TEC/GR/IT/LSW- 001/05.MAR.2014
		Spanning Tree Protocol IEEE 802.1d	TEC/GR/IT/LSW- 001/05.MAR.2014
5.	LAN Switch	Interface- 10/100/1000 BASE-T Ethernet : Link Speed and Auto negotiation Test GE IEEE 802.3	TEC/IR/IT/LSW- 003/01.SEP.2014
		Interface-10/100 BASE-T Ethernet: Link Speed and Auto negotiation Test FE IEEE 802.3	TEC/IR/IT/LSW- 003/01.SEP.2014
		Interface-1 G Optical Ethernet: Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3z Cl. 38	TEC/IR/IT/LSW- 003/01.SEP.2014


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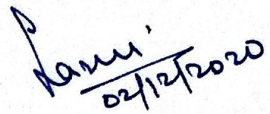
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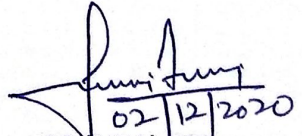
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	LAN Switch	Interface- 10 G Optical Ethernet: Average Launch Power, Receiver Sensitivity, Wavelength IEEE 802.3ae Cl. 52	TEC/IR/IT/LSW- 003/01.SEP.2014


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