



**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

[Signature]
02/12/2020 Page 1 of 2

- 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

[Signature]
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

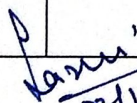
Certificate Number: TEC/MRA/CAB/IND-D/66

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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

*The validity of Certificate is upto 01/12/2023 or the continued validity of NABL Accreditation, whichever is earlier.

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
	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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(ANNEXURE)

Laboratory Name: M/s Criterion Network Labs
Unit #3 Ground Floor, Explorer Building, ITPL, Whitefield,
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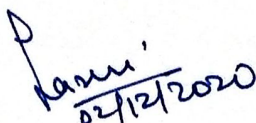
Certificate Number: TEC/MRA/CAB/IND-D/66

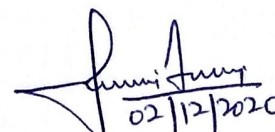
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Validity: 02/12/2020 to 01/12/2023

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	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
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02/12/2020
AD (MRA), TEC

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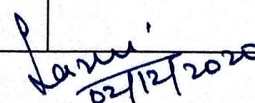
Certificate Number: TEC/MRA/CAB/IND-D/66

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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
	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


AD (MRA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Criterion Network Labs
Unit #3 Ground Floor, Explorer Building, ITPL, Whitefield,
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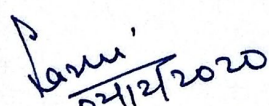
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Validity: 02/12/2020 to 01/12/2023

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


AD (MRA), TEC

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(ANNEXURE)

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

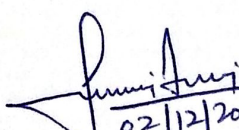
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Validity: 02/12/2020 to 01/12/2023

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	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
Director (MRA), TEC


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AD (MRA), TEC

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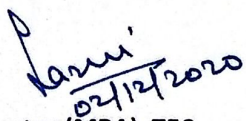
Certificate Number: TEC/MRA/CAB/IND-D/66

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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
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


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Criterion Network Labs
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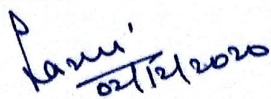
Certificate Number: TEC/MRA/CAB/IND-D/66

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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
	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


Director (MRA), TEC


AD (MRA), TEC

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SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s Criterion Network Labs
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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
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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02/12/2020
Director (MRA), TEC

AD (MRA), TEC
02/12/2020
AD (MRA), TEC

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SCOPE OF DESIGNATION
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Laboratory Name: M/s Criterion Network Labs
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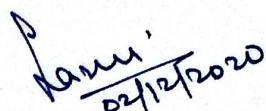
Certificate Number: TEC/MRA/CAB/IND-D/66

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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
	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


02/12/2020

Director (MRA), TEC


02/12/2020
AD (MRA), TEC

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



No. 1-47/2023-CA/TEC.

Dated: 11.10.2023

To,
M/s Criterion Network Labs, Bengaluru,
Unit #3 Ground Floor Explorer Building
International Tech Park Whitefield Karnataka,
Bengaluru- 560066
Mob: +91-9667361700, E-Mail: purohit@cnlabs.in

[Kind attention to Mr. Jayesh Purohit –MTCTE Program Manager)]

Subject: Enhancement of Scope of CAB Designation of M/s Criterion Network Labs, Bengaluru.

Ref: 1. TEC CAB Designation Certificate no. TEC/MRA/CAB/IND-D/66 dated 02.12.2020
2. Your application for enhancement of Scope of CAB Designation vide Application no. No. SW9264001416 dated 13.06.2023 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/66 dated 02.12.2020, valid upto 01.12.2023, submitted vide Application No. SW9264001416 dated 13.06.2023 in online mode on NSWS CAB Designation Portal.

2. In reference to Clause No. 11.2 of TEC CAB Designation Scheme TEC 04019:2023, the Scope of Designation of CAB Certificate no. referred above is hereby enhanced in respect of test parameters 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/66 dated 02.12.2020 shall remain unchanged.

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

Signed by Vijay Dixit
Date: 11-10-2023 16:04:17
Reason: Approved

Encl: as above.

(Vijay Dixit)
Director (CA), TEC

Copy to:

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

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



SCOPE OF DESIGNATION **(ANNEXURE)**

Laboratory Name: M/s Criterion Network Labs, Bengaluru
Unit #3 Ground Floor Explorer Building
International, Tech Park Whitefield Karnataka,
Bengaluru- 560066

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

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Validity: 11/10/2023 to 01/12/2023

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
1.	Router	Interface: 25 G Optical Ethernet	Average Launch Power IEEE 802.3 -2018 Cl. 114	TEC ER No. TEC37682306
			Receiver Sensitivity IEEE 802.3 -2018 Cl. 114	TEC ER No. TEC37682306
			Wavelength IEEE 802.3 -2018 Cl. 114	TEC ER No. TEC37682306
		Interface: 50 G Optical Ethernet	Average Launch Power IEEE 802.3cn Cl.139	TEC ER No. TEC37682306
			Receiver Sensitivity IEEE 802.3cn Cl.139	TEC ER No. TEC37682306
			Wavelength IEEE 802.3cn Cl.139	TEC ER No. TEC37682306
		Interface: 200 G Optical Ethernet	Average Launch Power IEEE 802.3cn Cl.121, 122	TEC ER No. TEC37682306
			Receiver Sensitivity IEEE 802.3cn Cl.121, 122	TEC ER No. TEC37682306
			Wavelength IEEE 802.3cn Cl.121, 122	TEC ER No. TEC37682306
		Interface: 400 G Optical Ethernet	Average Launch Power IEEE 802.3cn Cl.122, 124	TEC ER No. TEC37682306
			Receiver Sensitivity IEEE 802.3cn Cl.122, 124	TEC ER No. TEC37682306
			Wavelength IEEE 802.3cn Cl.122, 124	TEC ER No. TEC37682306

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SCOPE OF DESIGNATION
(ANNEXURE)

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

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Validity: 11/10/2023 to 01/12/2023

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Router	Interface: Fast Ethernet Optical	Average Launch Power IEEE 802.3u Cl.58 TEC ER No. TEC37682306
			Receiver Sensitivity IEEE 802.3u Cl.58 TEC ER No. TEC37682306
			Wavelength IEEE 802.3u Cl.58 TEC ER No. TEC37682306
2.	Infiniband Switch	Parameters Linked with Product Variant	Subnet Manager Annex-P11 Appendix-II Test No. 44 TEC ER No. TEC30012304
3.	Session Border Controller	Parameters Linked with Product Variant	UDP Parameters RFC 768, Annex-P5 TEC ER No. TEC67222301
			SIP Parameters Set-C RFC 3261, Annex-P1 TEC ER No. TEC67222301
			SCTP Parameters Set-B RFC 4960, Annex-P9 TEC ER No. TEC67222301
			RTCP Parameters RFC 3551 Set-B (RFC 3551, Annex-P3) TEC ER No. TEC67222301
			RTP Parameters RFC 3550 Set-C RFC 3550. Annex-P2 TEC ER No. TEC67222301

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Validity: 11/10/2023 to 01/12/2023

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
4.	IP Terminal	Parameters Linked with Product Variant	RTCP Parameters RFC 3551 Set-A, Annex-P3 TEC ER No. TEC 67472003
		RTP Parameters RFC 3550 Set-A, Annex-P2 TEC ER No. TEC 67472003	
		SIP Parameters Set-A RFC 3261, Annex-P1 TEC ER No. TEC 67472003	
5.	Private Automatic Branch Exchange	Parameters Linked with Product Variant	DTMF Parameters Set-C RFC 4733, Annex-P8 TEC ER No. TEC67292301
		RTP Parameters RFC 3550 Set-A, Annex-P2 TEC ER No. TEC67292301	
		SIP Parameters Set-A RFC 3261, Annex-P1 TEC ER No. TEC67292301	
		UDP Parameters RFC 768, Annex-P5 TEC ER No. TEC67292301	
6.	Softswitch	Parameters Linked with Product Variant	DTMF Parameters Set-B RFC 4733, Annex-P8 TEC ER No. TEC67792301
		SCTP Parameters Set-B RFC 4960, Annex-P9 TEC ER No. TEC67792301	
		SIP Parameters Set-D RFC 3261, Annex-P1 TEC ER No. TEC67792301	
		UDP Parameters RFC 768, Annex-P5 TEC ER No. TEC67792301	

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(ANNEXURE)

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

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Validity: 11/10/2023 to 01/12/2023

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing		Standard/Specification
7.	Media Gateway	Parameters Linked with Product Variant	RTP Parameters RFC 3550 Set-B, Annex-P2	TEC ER No. TEC66492301
			DTMF Parameters Set-A RFC 4733, Annex-P8	TEC ER No. TEC66492301
			SCTP Parameters Set-A RFC 4960, Annex-P9	TEC ER No. TEC66492301
			SIP Parameters Set-B RFC 3261, Annex-P1	TEC ER No. TEC66492301
			UDP Parameters RFC 768, Annex-P5	TEC ER No. TEC66492301

Signed by Sanjay Bhardwaj

Date: 11-10-2023 16:06:52

Reason: Approved

AD (CA), TEC

***The validity of Certificate is up to 01/12/2023 or the continued validity of NABL Accreditation, whichever is earlier.**