



**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-II**

**Issue Date: 31/03/2022**

**Valid Until: 30/03/2025**

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

**(To see the scope of designation of this laboratory, you may also visit TEC website [www.tec.gov.in](http://www.tec.gov.in))**

**Signed for and on behalf of TEC**

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



Certificate No: TEC/MRA/CAB/IND-D/71-II dated 31/03/2022 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: 31/03/2022 to 30/03/2025



### 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**

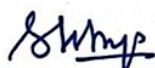
As and when required, DA shall conduct surveillance assessments and other non-routine assessments of the Designated CABs to ensure that Standards of practices are maintained as well as to investigate complaints made against them.

#### **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  
(A unit of Compliance International Pvt. Ltd.)  
X-35, 3rd Floor, Okhla Phase-II, New Delhi-110002

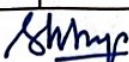
**Certificate Number:** TEC/MRA/CAB/IND-D/71-II

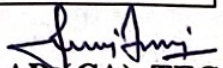
**Page 1 of 32**

**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/ Product | Test Parameter or Type of Testing         |                                                                              | Standard/ Specification   |
|---------|----------------------------|-------------------------------------------|------------------------------------------------------------------------------|---------------------------|
| 1.      | IP Terminal                | Parameters Linked with Product Variants   | IP V6 Header Parameters<br>RFC 2460/8200, Annex- P7<br>(Conformance testing) | TEC ER No.<br>TEC67472003 |
|         |                            |                                           | Dual IP layer Operation<br>RFC 4213, Annex- P6                               | TEC ER No.<br>TEC67472003 |
|         |                            | Interface:<br>1G Optical Ethernet         | Average Launch Power<br>IEEE 802.3z Cl. 38                                   | TEC ER No.<br>TEC67472003 |
|         |                            |                                           | Receiver Sensitivity<br>IEEE 802.3z Cl. 38                                   | TEC ER No.<br>TEC67472003 |
|         |                            |                                           | Wavelength<br>IEEE 802.3z Cl. 38                                             | TEC ER No.<br>TEC67472003 |
|         |                            | Interface:<br>10/100/1000 BASE-T Ethernet | Link Speed and Auto negotiation<br>Test GE<br>IEEE 802.3                     | TEC ER No.<br>TEC67472003 |
|         |                            | Interface:<br>10/100 BASE-T Ethernet      | Link Speed and Auto negotiation<br>Test FE<br>IEEE 802.3                     | TEC ER No.<br>TEC67472003 |
|         |                            |                                           |                                                                              |                           |

  
Director (CA), TEC

  
AD (CA), TEC

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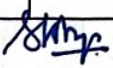
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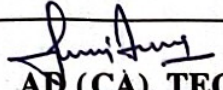
**Page 2 of 32**

**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing       | Standard/Specification                                           |
|---------|---------------------------|-----------------------------------------|------------------------------------------------------------------|
| 2.      | Media Gateway             | Parameters Linked with Product Variants | CCS7 MTP-2 Parameters<br>ITU-T Q.781                             |
|         |                           |                                         | TEC ER No.<br>TEC 66492003                                       |
|         |                           |                                         | CCS7 MTP-3 Parameters<br>ITU-T Q.782                             |
|         |                           |                                         | TEC ER No.<br>TEC 66492003                                       |
|         |                           |                                         | IP V4 Parameters<br>RFC 791, Annex- P 6<br>(Conformance Testing) |
|         |                           |                                         | TEC ER No.<br>TEC 66492003                                       |
|         |                           | Interface: 1G Optical Ethernet          | Average Launch Power<br>IEEE 802.3z Cl. 38                       |
|         |                           |                                         | TEC ER No.<br>TEC 66492003                                       |
|         |                           |                                         | Receiver Sensitivity<br>IEEE 802.3z Cl. 38                       |
|         |                           |                                         | TEC ER No.<br>TEC 66492003                                       |
|         |                           |                                         | Wavelength<br>IEEE 802.3z Cl. 38                                 |
|         |                           |                                         | TEC ER No.<br>TEC 66492003                                       |
|         |                           | Interface: 10/100 BASE-T Ethernet       | Link Speed and Auto negotiation<br>Test FE<br>IEEE 802.3         |
|         |                           |                                         | TEC ER No.<br>TEC 66492003                                       |
|         |                           | Interface: 10/100/1000 BASE-T Ethernet  | Link Speed and Auto negotiation<br>Test GE<br>IEEE 802.3         |
|         |                           |                                         | TEC ER No.<br>TEC 66492003                                       |

  
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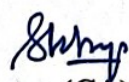
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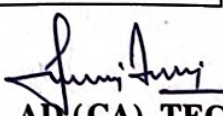
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**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing                 | Standard/Specification                                                        |
|---------|---------------------------|---------------------------------------------------|-------------------------------------------------------------------------------|
|         | <b>Media Gateway</b>      | <b>Interface:</b><br><b>10 G Optical Ethernet</b> | Average Launch Power<br>IEEE 802.3ae Cl. 52<br>TEC ER No.<br>TEC 66492003     |
|         |                           |                                                   | Receiver Sensitivity<br>IEEE 802.3ae Cl. 52<br>TEC ER No.<br>TEC 66492003     |
|         |                           |                                                   | Wavelength<br>IEEE 802.3ae Cl. 52<br>TEC ER No.<br>TEC 66492003               |
|         |                           |                                                   |                                                                               |
|         |                           | <b>Interface:</b><br><b>2 Mbps - E1</b>           | Nominal Bit Rate with Tolerance.<br>ITU-T G.703<br>TEC ER No.<br>TEC 66492003 |
|         |                           |                                                   | Input Jitter Tolerance<br>ITU-T G.823<br>TEC ER No.<br>TEC 66492003           |
|         |                           |                                                   | Input Return Loss<br>ITU-T G.703<br>TEC ER No.<br>TEC 66492003                |
|         |                           |                                                   | Output Jitter<br>ITU-T G.823<br>TEC ER No.<br>TEC 66492003                    |
|         |                           |                                                   | Pulse Mask<br>ITU-T G.703<br>TEC ER No.<br>TEC 66492003                       |

  
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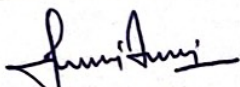
**Validity:** 31/03/2022 to 30/03/2025\*

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| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing | Standard/Specification |
|---------|---------------------------|-----------------------------------|------------------------|
|---------|---------------------------|-----------------------------------|------------------------|

|  |               |                                   |                                                |                            |
|--|---------------|-----------------------------------|------------------------------------------------|----------------------------|
|  | Media Gateway | Interface:<br>STM-1<br>Electrical | Input Jitter Tolerance<br>ITU-T G.825          | TEC ER No.<br>TEC 66492003 |
|  |               |                                   | Input Return Loss<br>ITU-T G.703               | TEC ER No.<br>TEC 66492003 |
|  |               |                                   | Nominal Bit Rate with Tolerance<br>ITU-T G.703 | TEC ER No.<br>TEC 66492003 |
|  |               |                                   | Output Jitter<br>ITU-T G.825                   | TEC ER No.<br>TEC 66492003 |
|  |               |                                   | Pulse Mask<br>ITU-T G.703                      | TEC ER No.<br>TEC 66492003 |
|  |               | Interface:<br>STM-1<br>Optical    | Input Jitter Tolerance<br>ITU-T G.825          | TEC ER No.<br>TEC 66492003 |
|  |               |                                   | Mean Launched Power<br>ITU-T G.957             | TEC ER No.<br>TEC 66492003 |
|  |               |                                   | Nominal Bit Rate with Tolerance<br>ITU-T G.957 | TEC ER No.<br>TEC 66492003 |
|  |               |                                   | Operating Wavelength Range<br>ITU-T G.957      | TEC ER No.<br>TEC 66492003 |
|  |               |                                   |                                                |                            |

  
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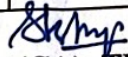
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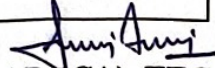
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| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing | Standard/Specification |
|---------|---------------------------|-----------------------------------|------------------------|
|---------|---------------------------|-----------------------------------|------------------------|

|  |                      |                                 |                                                                                       |                            |
|--|----------------------|---------------------------------|---------------------------------------------------------------------------------------|----------------------------|
|  | <b>Media Gateway</b> | <b>Interface: STM-1 Optical</b> | Output Jitter<br>ITU-T G.783                                                          | TEC ER No.<br>TEC 66492003 |
|  |                      |                                 | Receiver Overload<br>ITU-T G.957                                                      | TEC ER No.<br>TEC 66492003 |
|  |                      |                                 | Receiver Sensitivity<br>ITU-T G.957                                                   | TEC ER No.<br>TEC 66492003 |
|  |                      | <b>Interface: 2W Trunk</b>      | Transmission of DTMF Signalling<br>Q.23 Clause 6 and 7                                | TEC ER No.<br>TEC 66492003 |
|  |                      |                                 | DC Resistance<br>ETSI TBR-21 Clause 4.4.1                                             | TEC ER No.<br>TEC 66492003 |
|  |                      |                                 | Longitudinal Conversion Loss for<br>2 W Trunk Int.<br>Q.552 Clause 2.2.2 and Figure-2 | TEC ER No.<br>TEC 66492003 |
|  |                      |                                 | Minimum Current on Junction/<br>Trunk Line<br>ETSI EN 300 001                         | TEC ER No.<br>TEC 66492003 |
|  |                      |                                 | Resistance to Earth<br>ETSI TBR-21 Clause 4.4.4                                       | TEC ER No.<br>TEC 66492003 |
|  |                      |                                 | Return Loss for 2 W Trunk Int.<br>Q.552 Clause 2.2.1.2 and Figure-1                   | TEC ER No.<br>TEC 66492003 |

  
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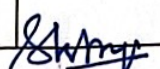
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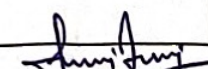
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**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing                                                                                                                                                                      | Standard/Specification     |
|---------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
|         | Media Gateway             | Interface: ISDN PRI                                                                                                                                                                                    |                            |
|         |                           | Input Jitter Tolerance<br>ITU-T G.823                                                                                                                                                                  | TEC ER No.<br>TEC 66492003 |
|         |                           | Input Return Loss<br>ITU-T G.703 Clause no. 11.3                                                                                                                                                       | TEC ER No.<br>TEC 66492003 |
|         |                           | Nominal Bit Rate Tolerance for ISDN PRI<br>ITU-T G.703 Clause no. 11.1                                                                                                                                 | TEC ER No.<br>TEC 66492003 |
|         |                           | Pulse Mask for PRI<br>ITU-T G.703 Clause no. 11.2                                                                                                                                                      | TEC ER No.<br>TEC 66492003 |
|         |                           | Output Jitter for PRI<br>ITU-T G.823 Clause no. 5.1                                                                                                                                                    | TEC ER No.<br>TEC 66492003 |
|         |                           | Layer-III PRI Specification - Call Setup<br>ITU-T Q.931<br>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.<br>TEC 66492003 |

  
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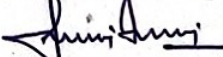
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**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing                                                                                                                                                                                                | Standard/Specification  |
|---------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
|         | Media Gateway             | Interface: ISDN PRI<br>Layer-III PRI Specification – Call Clearing<br>ITU-T Q.931<br>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 66492003 |
| 3.      | Soft Switch               | Interface: 1G Optical Ethernet<br>Average Launch Power<br>IEEE 802.3z Cl. 38                                                                                                                                                     | TEC ER No. TEC 67792003 |
|         |                           | Receiver Sensitivity<br>IEEE 802.3z Cl. 38                                                                                                                                                                                       | TEC ER No. TEC 67792003 |
|         |                           | Wavelength<br>IEEE 802.3z Cl. 38                                                                                                                                                                                                 | TEC ER No. TEC 67792003 |
|         |                           | Interface: 10 G Optical Ethernet<br>Average Launch Power<br>IEEE 802.3ae Cl. 52                                                                                                                                                  | TEC ER No. TEC 67792003 |
|         |                           | Receiver Sensitivity<br>IEEE 802.3ae Cl. 52                                                                                                                                                                                      | TEC ER No. TEC 67792003 |
|         |                           | Wavelength<br>IEEE 802.3ae Cl. 52                                                                                                                                                                                                | TEC ER No. TEC 67792003 |

  
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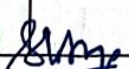
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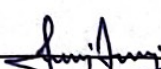
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| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing       |                                                           | Standard/Specification  |
|---------|---------------------------|-----------------------------------------|-----------------------------------------------------------|-------------------------|
|         | Soft Switch               | Interface: 10/100/1000 BASE-T Ethernet  | Link Speed and Auto negotiation Test GE IEEE 802.3        | TEC ER No. TEC 67792003 |
| 4.      | Signaling Gateway         | Parameters Linked with Product Variants | CCS7 MTP-2 Parameters ITU-T Q.781                         | TEC ER No. TEC 67492003 |
|         |                           |                                         | CCS7 MTP-3 Parameters ITU-T Q.782                         | TEC ER No. TEC 67492003 |
|         |                           |                                         | IPv4 Parameters RFC 791, Annex- P 6 (Conformance Testing) | TEC ER No. TEC 67492003 |
|         |                           | Interface: 1G Optical Ethernet          | Average Launch Power IEEE 802.3z Cl. 38                   | TEC ER No. TEC 67492003 |
|         |                           |                                         | Receiver Sensitivity IEEE 802.3z Cl. 38                   | TEC ER No. TEC 67492003 |
|         |                           |                                         | Wavelength IEEE 802.3z Cl. 38                             | TEC ER No. TEC 67492003 |
|         |                           | Interface: 10 G Optical Ethernet        | Average Launch Power IEEE 802.3ae Cl. 52                  | TEC ER No. TEC 67492003 |

  
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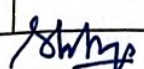
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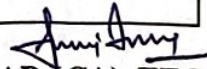
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|  |                          |                                               |                                                          |                            |
|--|--------------------------|-----------------------------------------------|----------------------------------------------------------|----------------------------|
|  | <b>Signaling Gateway</b> | <b>Interface: 10 G Optical Ethernet</b>       | Receiver Sensitivity<br>IEEE 802.3ae Cl. 52              | TEC ER No.<br>TEC 67492003 |
|  |                          |                                               | Wavelength<br>IEEE 802.3ae Cl. 52                        | TEC ER No.<br>TEC 67492003 |
|  |                          | <b>Interface: 10/100/1000 BASE-T Ethernet</b> | Link Speed and Auto negotiation<br>Test GE<br>IEEE 802.3 | TEC ER No.<br>TEC 67492003 |
|  |                          |                                               | Nominal Bit Rate with Tolerance.<br>ITU-T G.703          | TEC ER No.<br>TEC 67492003 |
|  |                          | <b>Interface: 2 Mbps - E1</b>                 | Input Jitter Tolerance<br>ITU-T G.823                    | TEC ER No.<br>TEC 67492003 |
|  |                          |                                               | Input Return Loss<br>ITU-T G.703                         | TEC ER No.<br>TEC 67492003 |
|  |                          |                                               | Output Jitter<br>ITU-T G.823                             | TEC ER No.<br>TEC 67492003 |
|  |                          |                                               | Pulse Mask<br>ITU-T G.703                                | TEC ER No.<br>TEC 67492003 |

  
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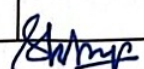
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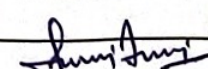
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| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing | Standard/Specification |
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|           |                                  |                                                |                                                                               |                            |
|-----------|----------------------------------|------------------------------------------------|-------------------------------------------------------------------------------|----------------------------|
|           | <b>Signaling Gateway</b>         | <b>Interface: STM-1 Optical</b>                | Input Jitter Tolerance<br>ITU-T G.825                                         | TEC ER No.<br>TEC 67492003 |
|           |                                  |                                                | Mean Launched Power<br>ITU-T G.957                                            | TEC ER No.<br>TEC 67492003 |
|           |                                  |                                                | Nominal Bit Rate with Tolerance<br>ITU-T G.957                                | TEC ER No.<br>TEC 67492003 |
|           |                                  |                                                | Operating Wavelength Range<br>ITU-T G.957                                     | TEC ER No.<br>TEC 67492003 |
|           |                                  |                                                | Output Jitter<br>ITU-T G.783                                                  | TEC ER No.<br>TEC 67492003 |
|           |                                  |                                                | Receiver Overload<br>ITU-T G.957                                              | TEC ER No.<br>TEC 67492003 |
|           |                                  |                                                | Receiver Sensitivity<br>ITU-T G.957                                           | TEC ER No.<br>TEC 67492003 |
| <b>5.</b> | <b>Session Border Controller</b> | <b>Parameters Linked with Product Variants</b> | IP V6 Header Parameters<br>RFC 2460/8200, Annex- P 7<br>(Conformance testing) | TEC ER No.<br>TEC 67222003 |
|           |                                  |                                                | Dual IP layer Operation<br>RFC 4213, Annex- P 6                               | TEC ER No.<br>TEC 67222003 |
|           |                                  | <b>Interface: 1G Optical Ethernet</b>          | Average Launch Power<br>IEEE 802.3z Cl. 38                                    | TEC ER No.<br>TEC 67222003 |
|           |                                  |                                                | Receiver Sensitivity<br>IEEE 802.3z Cl. 38                                    | TEC ER No.<br>TEC 67222003 |

  
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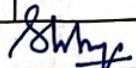
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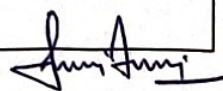
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|    |                                  |                                               |                                                                        |                            |
|----|----------------------------------|-----------------------------------------------|------------------------------------------------------------------------|----------------------------|
|    | <b>Session Border Controller</b> | <b>Interface: 1G Optical Ethernet</b>         | Wavelength<br>IEEE 802.3z Cl. 38                                       | TEC ER No.<br>TEC 67222003 |
|    |                                  | <b>Interface: 10 G Optical Ethernet</b>       | Average Launch Power<br>IEEE 802.3ae Cl. 52                            | TEC ER No.<br>TEC 67222003 |
|    |                                  |                                               | Receiver Sensitivity<br>IEEE 802.3ae Cl. 52                            | TEC ER No.<br>TEC 67222003 |
|    |                                  |                                               | Wavelength<br>IEEE 802.3ae Cl. 52                                      | TEC ER No.<br>TEC 67222003 |
| 6. | <b>PABX</b>                      | <b>Interface: Fast Ethernet Electrical</b>    | IP V4 Parameters Set-A<br>RFC 791, Annex- P 6<br>(Conformance Testing) | TEC ER No.<br>TEC 67292002 |
|    |                                  | <b>Interface: Gigabit Ethernet Electrical</b> | IP V4 Parameters Set-A<br>RFC 791, Annex- P 6<br>(Conformance Testing) | TEC ER No.<br>TEC 67292002 |

  
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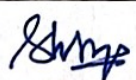
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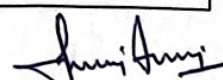
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| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing                                               | Standard/Specification  |
|---------|---------------------------|---------------------------------------------------------------------------------|-------------------------|
| 7.      | LAN Switch                | <b>Parameters Linked with Product Variant</b>                                   |                         |
|         |                           | Spanning Tree Protocol IEEE 802.1d, Annex -P 11                                 | TEC ER No. TEC 37942007 |
|         |                           | Dynamic Routing Annex P-11                                                      | TEC ER No. TEC 37942007 |
|         |                           | IP V4 Parameters RFC 791, Annex- P 11 (Conformance Testing)                     | TEC ER No. TEC 37942007 |
|         |                           | IP V6 Parameters RFC 2460/8200, Annex- P 11                                     | TEC ER No. TEC 37942007 |
|         |                           | Manageability SNMP v2 or v3 RFC 3410, RFC 3416, Annex- P11 (Functional Testing) | TEC ER No. TEC 37942007 |
|         |                           | Static Routing, Annex- P11                                                      | TEC ER No. TEC 37942007 |
|         |                           | <b>Interface: 1G Optical Ethernet</b>                                           |                         |
|         |                           | Average Launch Power IEEE 802.3z Cl. 38                                         | TEC ER No. TEC 37942007 |
|         |                           | Receiver Sensitivity IEEE 802.3z Cl. 38                                         | TEC ER No. TEC 37942007 |
|         |                           | Wavelength IEEE 802.3z Cl. 38                                                   | TEC ER No. TEC 37942007 |

  
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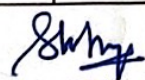
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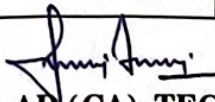
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|---------|---------------------------|-----------------------------------|------------------------|
|---------|---------------------------|-----------------------------------|------------------------|

|  |            |                                                 |                                                          |                            |
|--|------------|-------------------------------------------------|----------------------------------------------------------|----------------------------|
|  | LAN Switch | Interface:<br>10 G<br>Optical<br>Ethernet       | Average Launch Power<br>IEEE 802.3ae Cl. 52              | TEC ER No.<br>TEC 37942007 |
|  |            |                                                 | Receiver Sensitivity<br>IEEE 802.3ae Cl. 52              | TEC ER No.<br>TEC 37942007 |
|  |            |                                                 | Wavelength<br>IEEE 802.3ae Cl. 52                        | TEC ER No.<br>TEC 37942007 |
|  |            | Interface:<br>10/100<br>BASE-T<br>Ethernet      | Link Speed and Auto negotiation<br>Test FE<br>IEEE 802.3 | TEC ER No.<br>TEC 37942007 |
|  |            | Interface:<br>10/100/1000<br>BASE-T<br>Ethernet | Link Speed and Auto negotiation<br>Test GE<br>IEEE 802.3 | TEC ER No.<br>TEC 37942007 |
|  |            | Interface:<br>40 G<br>Optical<br>Ethernet       | Average Launch Power<br>IEEE 802.3ba Cl. 86 87           | TEC ER No.<br>TEC 37942007 |
|  |            |                                                 | Receiver Sensitivity<br>IEEE 802.3ba Cl. 86 87           | TEC ER No.<br>TEC 37942007 |

  
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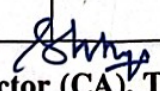
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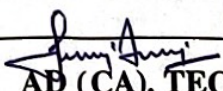
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| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing |                                                | Standard/Specification     |
|---------|---------------------------|-----------------------------------|------------------------------------------------|----------------------------|
|         | LAN Switch                | Interface: 40 G Optical Ethernet  | Wavelength<br>IEEE 802.3ba Cl. 86 87           | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   |                                                |                            |
|         |                           | Interface: 100 G Optical Ethernet | Average Launch Power<br>IEEE 802.3ba Cl. 86 88 | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   | Receiver Sensitivity<br>IEEE 802.3ba Cl. 86 88 | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   | Wavelength<br>IEEE 802.3ba Cl. 86 88           | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   |                                                |                            |
|         |                           | Interface: 2 Mbps-E1              | Input Jitter Tolerance<br>ITU-T G.823          | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   | Input Return Loss<br>ITU-T G.703               | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   | Nominal Bit Rate with Tolerance<br>ITU-T G.703 | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   | Output Jitter<br>ITU-T G.823                   | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   | Pulse Mask<br>ITU-T G.703                      | TEC ER No.<br>TEC 37942007 |

  
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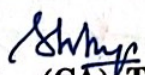
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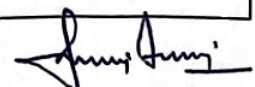
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|---------|---------------------------|-----------------------------------|------------------------------------------------|----------------------------|
|         | LAN Switch                | Interface:<br>STM-1<br>Optical    | Input Jitter Tolerance<br>ITU-T G.825          | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   | Mean Launched Power<br>ITU-T G.957             | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   | Nominal Bit Rate with Tolerance<br>ITU-T G.957 | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   | Operating Wavelength Range<br>ITU-T G.957      | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   | Output Jitter<br>ITU-T G.783                   | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   | Receiver Overload<br>ITU-T G.957               | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   | Receiver Sensitivity<br>ITU-T G.957            | TEC ER No.<br>TEC 37942007 |
|         |                           | Interface:<br>STM-4<br>Optical    | Input Jitter Tolerance<br>ITU-T G.825          | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   | Mean Launched Power<br>ITU-T G.957             | TEC ER No.<br>TEC 37942007 |
|         |                           |                                   | Nominal Bit Rate with Tolerance<br>ITU-T G.957 | TEC ER No.<br>TEC 37942007 |

  
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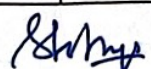
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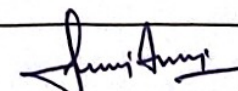
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|---------|---------------------------|-----------------------------------|------------------------|
|---------|---------------------------|-----------------------------------|------------------------|

|  |            |                                 |                                                |                            |
|--|------------|---------------------------------|------------------------------------------------|----------------------------|
|  | LAN Switch | Interface:<br>STM-4<br>Optical  | Operating Wavelength Range<br>ITU-T G.957      | TEC ER No.<br>TEC 37942007 |
|  |            |                                 | Output Jitter<br>ITU-T G.783                   | TEC ER No.<br>TEC 37942007 |
|  |            |                                 | Receiver Overload<br>ITU-T G.957               | TEC ER No.<br>TEC 37942007 |
|  |            |                                 | Receiver Sensitivity<br>ITU-T G.957            | TEC ER No.<br>TEC 37942007 |
|  |            | Interface:<br>STM-16<br>Optical | Input Jitter Tolerance<br>ITU-T G.825          | TEC ER No.<br>TEC 37942007 |
|  |            |                                 | Mean Launched Power<br>ITU-T G.957             | TEC ER No.<br>TEC 37942007 |
|  |            |                                 | Nominal Bit Rate with Tolerance<br>ITU-T G.957 | TEC ER No.<br>TEC 37942007 |
|  |            |                                 | Operating Wavelength Range<br>ITU-T G.957      | TEC ER No.<br>TEC 37942007 |
|  |            |                                 | Output Jitter<br>ITU-T G.783                   | TEC ER No.<br>TEC 37942007 |
|  |            |                                 | Receiver Overload<br>ITU-T G.957               | TEC ER No.<br>TEC 37942007 |

  
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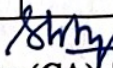
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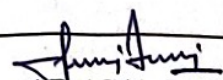
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|    |                                 |                                         |                                                                                                        |                            |
|----|---------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------|
|    | LAN Switch                      | Interface:<br>STM- 16<br>Optical        | Receiver Sensitivity<br>ITU-T G.957                                                                    | TEC ER No.<br>TEC 37942007 |
| 7. | Router                          | Interface:<br>STM-64<br>Optical         | Nominal Bit Rate with Tolerance<br>ITU-T G.707                                                         | TEC ER No.<br>TEC 37682111 |
| 8. | Transmission Terminal Equipment | Interface:<br>STM-64<br>Optical         | Nominal Bit Rate with Tolerance<br>ITU-T G.707                                                         | TEC ER No.<br>TEC 78832108 |
| 9. | Mobile User Equipment           | Parameters Linked with Product Variants | IPV6 Extn. Header Parameters<br>RFC 2460 / RFC 8200,<br>Annex- P 7<br>(Conformance Testing)            | TEC ER No.<br>TEC 47722108 |
|    |                                 |                                         | IPV6 Header Parameters<br>RFC 2460 / RFC 8200,<br>Annex- P 7<br>(Conformance Testing)                  | TEC ER No.<br>TEC 47722108 |
|    |                                 |                                         | Dual IP Layer Operation<br>RFC 4213 – Address, Annex- P 6<br>RFC 4213 Cl. 2.1<br>(Conformance Testing) | TEC ER No.<br>TEC 47722108 |

  
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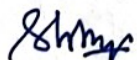
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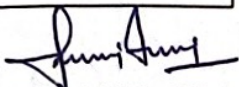
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|---------|---------------------------|-----------------------------------|------------------------|
|---------|---------------------------|-----------------------------------|------------------------|

|     |                       |                                         |                                                                                                        |                            |
|-----|-----------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------|
|     | Mobile User Equipment | Parameters Linked with Product Variants | Dual IP Layer Operation<br>RFC 4213 – DNS, Annex- P 6<br>RFC 4213 Cl. 2.2<br>(Conformance Testing)     | TEC ER No.<br>TEC 47722108 |
| 10. | IoT Gateway           | Parameters Linked with Product Variants | IPV6 Extn. Header Parameters<br>RFC 2460 / RFC 8200,<br>Annex- P 7<br>(Conformance Testing)            | TEC ER No.<br>TEC 24492108 |
|     |                       |                                         | IPV6 Header Parameters<br>RFC 2460 / RFC 8200,<br>Annex- P 7<br>(Conformance Testing)                  | TEC ER No.<br>TEC 24492108 |
|     |                       |                                         | Dual IP Layer Operation<br>RFC 4213 – Address, Annex- P 6<br>RFC 4213 Cl. 2.1<br>(Conformance Testing) | TEC ER No.<br>TEC 24492108 |
|     |                       |                                         | Dual IP Layer Operation<br>RFC 4213 – DNS, Annex- P 6<br>RFC 4213 Cl. 2.2<br>(Conformance Testing)     | TEC ER No.<br>TEC 24492108 |

  
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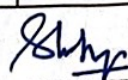
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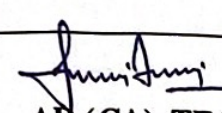
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|---------|----------------------------|-----------------------------------|-------------------------|
|---------|----------------------------|-----------------------------------|-------------------------|

|  |             |                                        |                                                          |                            |
|--|-------------|----------------------------------------|----------------------------------------------------------|----------------------------|
|  | IoT Gateway | Interface: 10/100 BASE-T Ethernet      | Link Speed and Auto negotiation<br>Test FE<br>IEEE 802.3 | TEC ER No.<br>TEC 24492108 |
|  |             | Interface: 10/100/1000 BASE-T Ethernet | Link Speed and Auto negotiation<br>Test GE<br>IEEE 802.3 | TEC ER No.<br>TEC 24492108 |
|  |             | Interface: 40 G Optical Ethernet       | Average Launch Power<br>IEEE 802.3ba Cl. 86 87           | TEC ER No.<br>TEC 24492108 |
|  |             |                                        | Receiver Sensitivity<br>IEEE 802.3ba Cl. 86 87           | TEC ER No.<br>TEC 24492108 |
|  |             |                                        | Wavelength<br>IEEE 802.3ba Cl. 86 87                     | TEC ER No.<br>TEC 24492108 |
|  |             | Interface: 100 G Optical Ethernet      | Average Launch Power<br>IEEE 802.3ba Cl. 86 88           | TEC ER No.<br>TEC 24492108 |
|  |             |                                        | Receiver Sensitivity<br>IEEE 802.3ba Cl. 86 88           | TEC ER No.<br>TEC 24492108 |
|  |             |                                        | Wavelength<br>IEEE 802.3ba Cl. 86 88                     | TEC ER No.<br>TEC 24492108 |

  
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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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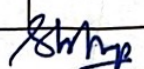
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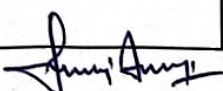
**Page 20 of 32**

**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing                                                                      | Standard/Specification                                                                      |
|---------|---------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 11.     | Tracking Device           | Parameters Linked with Product Variants                                                                | IPV6 Extn. Header Parameters<br>RFC 2460 / RFC 8200,<br>Annex- P 7<br>(Conformance Testing) |
|         |                           |                                                                                                        | TEC ER No.<br>TEC 28732108                                                                  |
|         |                           |                                                                                                        | IPV6 Header Parameters<br>RFC 2460 / RFC 8200,<br>Annex- P 7<br>(Conformance Testing)       |
|         |                           |                                                                                                        | TEC ER No.<br>TEC 28732108                                                                  |
|         |                           | Dual IP Layer Operation<br>RFC 4213 – Address, Annex- P 6<br>RFC 4213 Cl. 2.1<br>(Conformance Testing) | TEC ER No.<br>TEC 28732108                                                                  |
|         |                           | Dual IP Layer Operation<br>RFC 4213 – DNS, Annex- P 6<br>RFC 4213 Cl. 2.2<br>(Conformance Testing)     | TEC ER No.<br>TEC 28732108                                                                  |
| 12.     | Smart Watch               | Parameters Linked with Product Variants                                                                | IPV6 Extn. Header Parameters<br>RFC 2460 / RFC 8200,<br>Annex- P 7<br>(Conformance Testing) |
|         |                           |                                                                                                        | TEC ER No.<br>TEC 28982110                                                                  |

  
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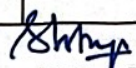
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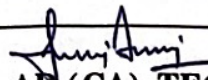
**Page 21 of 32**

**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing       | Standard/Specification                                                                                 |
|---------|---------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------|
|         | Smart Watch               | Parameters Linked with Product Variants | IPV6 Header Parameters<br>RFC 2460 / RFC 8200,<br>Annex- P 7<br>(Conformance Testing)                  |
|         |                           |                                         | TEC ER No.<br>TEC 28982110                                                                             |
|         |                           |                                         | Dual IP Layer Operation<br>RFC 4213 – Address, Annex- P 6<br>RFC 4213 Cl. 2.1<br>(Conformance Testing) |
|         |                           |                                         | TEC ER No.<br>TEC 28982110                                                                             |
|         |                           |                                         | Dual IP Layer Operation<br>RFC 4213 – DNS, Annex- P 6<br>RFC 4213 Cl. 2.2<br>(Conformance Testing)     |
|         |                           |                                         | TEC ER No.<br>TEC 28982110                                                                             |
| 13.     | Smart Camera              | Parameters Linked with Product Variants | IPV6 Extn. Header Parameters<br>RFC 2460 / RFC 8200,<br>Annex- P 7<br>(Conformance Testing)            |
|         |                           |                                         | TEC ER No.<br>TEC 28822108                                                                             |
|         |                           |                                         | IPV6 Header Parameters<br>RFC 2460 / RFC 8200,<br>Annex- P 7<br>(Conformance Testing)                  |
|         |                           |                                         | TEC ER No.<br>TEC 28822108                                                                             |
|         |                           |                                         | Dual IP Layer Operation<br>RFC 4213 – Address, Annex- P 6<br>RFC 4213 Cl. 2.1<br>(Conformance Testing) |
|         |                           |                                         | TEC ER No.<br>TEC 28822108                                                                             |

  
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X-35, 3rd Floor, Okhla Phase-II, New Delhi-110002

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

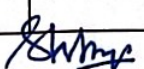
**Page 22 of 32**

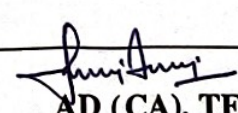
**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing | Standard/Specification |
|---------|---------------------------|-----------------------------------|------------------------|
|---------|---------------------------|-----------------------------------|------------------------|

|     |                                               |                                         |                                                                                                        |                            |
|-----|-----------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------|
|     | Smart Camera                                  | Parameters Linked with Product Variants | Dual IP Layer Operation<br>RFC 4213 – DNS, Annex- P 6<br>RFC 4213 Cl. 2.2<br>(Conformance Testing)     | TEC ER No.<br>TEC 28822108 |
| 14. | Equipment Operating in 2.4 GHz and 5 GHz Band | Parameters Linked with Product Variants | IPV6 Extn. Header Parameters<br>RFC 2460 / RFC 8200,<br>Annex- P 7<br>(Conformance Testing)            | TEC ER No.<br>TEC 59432108 |
|     |                                               |                                         | IPV6 Header Parameters<br>RFC 2460 / RFC 8200,<br>Annex- P 7<br>(Conformance Testing)                  | TEC ER No.<br>TEC 59432108 |
|     |                                               |                                         | Dual IP Layer Operation<br>RFC 4213 – Address, Annex- P 6<br>RFC 4213 Cl. 2.1<br>(Conformance Testing) | TEC ER No.<br>TEC 59432108 |
|     |                                               |                                         | Dual IP Layer Operation<br>RFC 4213 – DNS, Annex- P 6<br>RFC 4213 Cl. 2.2<br>(Conformance Testing)     | TEC ER No.<br>TEC 59432108 |

  
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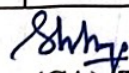
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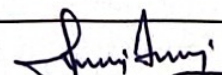
**Page 23 of 32**

**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product                            | Test Parameter or Type of Testing             | Standard/Specification                                   |
|---------|------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------|
|         | <b>Equipment Operating in 2.4 GHz and 5 GHz Band</b> | <b>Interface: 10/100 BASE-T Ethernet</b>      | Link Speed and Auto negotiation<br>Test FE<br>IEEE 802.3 |
|         |                                                      | <b>Interface: 10/100/1000 BASE-T Ethernet</b> | Link Speed and Auto negotiation<br>Test GE<br>IEEE 802.3 |
|         |                                                      | <b>Interface: 1G Optical Ethernet</b>         | Average Launch Power<br>IEEE 802.3z Cl. 38               |
|         |                                                      |                                               | Receiver Sensitivity<br>IEEE 802.3z Cl. 38               |
|         |                                                      |                                               | Wavelength<br>IEEE 802.3z Cl. 38                         |
|         |                                                      | <b>Interface: 10 G Optical Ethernet</b>       | Average Launch Power<br>IEEE 802.3ae Cl. 52              |
|         |                                                      |                                               | Receiver Sensitivity<br>IEEE 802.3ae Cl. 52              |
|         |                                                      |                                               | Wavelength<br>IEEE 802.3ae Cl. 52                        |
|         |                                                      |                                               |                                                          |

  
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## **SCOPE OF DESIGNATION** **(Annexure)**

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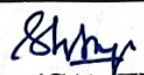
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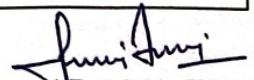
**Page** 24 **of** 32

**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product                     | Test Parameter or Type of Testing |                                                 | Standard/Specification     |
|---------|-----------------------------------------------|-----------------------------------|-------------------------------------------------|----------------------------|
|         | Equipment Operating in 2.4 GHz and 5 GHz Band | Interface: 2 Mbps - E1            | Nominal Bit Rate with Tolerance.<br>ITU-T G.703 | TEC ER No.<br>TEC 59432108 |
|         |                                               |                                   | Input Jitter Tolerance<br>ITU-T G.823           | TEC ER No.<br>TEC 59432108 |
|         |                                               |                                   | Input Return Loss<br>ITU-T G.703                | TEC ER No.<br>TEC 59432108 |
|         |                                               |                                   | Output Jitter<br>ITU-T G.823                    | TEC ER No.<br>TEC 59432108 |
|         |                                               |                                   | Pulse Mask<br>ITU-T G.703                       | TEC ER No.<br>TEC 59432108 |
|         |                                               | Interface: STM-1 Electrical       | Input Jitter Tolerance<br>ITU-T G.825           | TEC ER No.<br>TEC 59432108 |
|         |                                               |                                   | Input Return Loss<br>ITU-T G.703                | TEC ER No.<br>TEC 59432108 |
|         |                                               |                                   | Nominal Bit Rate with Tolerance<br>ITU-T G.703  | TEC ER No.<br>TEC 59432108 |
|         |                                               |                                   | Output Jitter<br>ITU-T G.825                    | TEC ER No.<br>TEC 59432108 |
|         |                                               |                                   | Pulse Mask<br>ITU-T G.703                       | TEC ER No.<br>TEC 59432108 |

  
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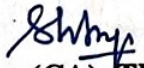
**Page** 25 of 32

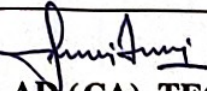
**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing | Standard/Specification |
|---------|---------------------------|-----------------------------------|------------------------|
|---------|---------------------------|-----------------------------------|------------------------|

|  |                                                      |                                 |                                                |                            |
|--|------------------------------------------------------|---------------------------------|------------------------------------------------|----------------------------|
|  | <b>Equipment Operating in 2.4 GHz and 5 GHz Band</b> | <b>Interface: STM-1 Optical</b> | Input Jitter Tolerance<br>ITU-T G.825          | TEC ER No.<br>TEC 59432108 |
|  |                                                      |                                 | Mean Launched Power<br>ITU-T G.957             | TEC ER No.<br>TEC 59432108 |
|  |                                                      |                                 | Nominal Bit Rate with Tolerance<br>ITU-T G.957 | TEC ER No.<br>TEC 59432108 |
|  |                                                      |                                 | Operating Wavelength Range<br>ITU-T G.957      | TEC ER No.<br>TEC 59432108 |
|  |                                                      |                                 | Output Jitter<br>ITU-T G.783                   | TEC ER No.<br>TEC 59432108 |
|  |                                                      |                                 | Receiver Overload<br>ITU-T G.957               | TEC ER No.<br>TEC 59432108 |
|  |                                                      |                                 | Receiver Sensitivity<br>ITU-T G.957            | TEC ER No.<br>TEC 59432108 |
|  |                                                      | <b>Interface: STM-4 Optical</b> | Input Jitter Tolerance<br>ITU-T G.825          | TEC ER No.<br>TEC 59432108 |
|  |                                                      |                                 | Mean Launched Power<br>ITU-T G.957             | TEC ER No.<br>TEC 59432108 |

  
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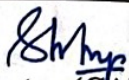
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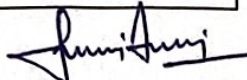
**Page 26 of 32**

**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product                            | Test Parameter or Type of Testing |                                                | Standard/Specification     |
|---------|------------------------------------------------------|-----------------------------------|------------------------------------------------|----------------------------|
|         | <b>Equipment Operating in 2.4 GHz and 5 GHz Band</b> | <b>Interface: STM-4 Optical</b>   | Nominal Bit Rate with Tolerance<br>ITU-T G.957 | TEC ER No.<br>TEC 59432108 |
|         |                                                      |                                   | Operating Wavelength Range<br>ITU-T G.957      | TEC ER No.<br>TEC 59432108 |
|         |                                                      |                                   | Output Jitter<br>ITU-T G.783                   | TEC ER No.<br>TEC 59432108 |
|         |                                                      |                                   | Receiver Overload<br>ITU-T G.957               | TEC ER No.<br>TEC 59432108 |
|         |                                                      |                                   | Receiver Sensitivity<br>ITU-T G.957            | TEC ER No.<br>TEC 59432108 |
|         |                                                      | <b>Interface: STM-16 Optical</b>  | Input Jitter Tolerance<br>ITU-T G.825          | TEC ER No.<br>TEC 59432108 |
|         |                                                      |                                   | Mean Launched Power<br>ITU-T G.957             | TEC ER No.<br>TEC 59432108 |
|         |                                                      |                                   | Nominal Bit Rate with Tolerance<br>ITU-T G.957 | TEC ER No.<br>TEC 59432108 |
|         |                                                      |                                   | Operating Wavelength Range<br>ITU-T G.957      | TEC ER No.<br>TEC 59432108 |
|         |                                                      |                                   | Output Jitter<br>ITU-T G.783                   | TEC ER No.<br>TEC 59432108 |
|         |                                                      |                                   | Receiver Overload<br>ITU-T G.957               | TEC ER No.<br>TEC 59432108 |
|         |                                                      |                                   |                                                |                            |
|         |                                                      |                                   |                                                |                            |
|         |                                                      |                                   |                                                |                            |
|         |                                                      |                                   |                                                |                            |

  
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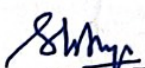
**Page 27 of 32**

**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing | Standard/Specification |
|---------|---------------------------|-----------------------------------|------------------------|
|---------|---------------------------|-----------------------------------|------------------------|

|     |                                               |                                        |                                                          |                            |
|-----|-----------------------------------------------|----------------------------------------|----------------------------------------------------------|----------------------------|
|     | Equipment Operating in 2.4 GHz and 5 GHz Band | Interface: STM- 16 Optical             | Receiver Sensitivity<br>ITU-T G.957                      | TEC ER No.<br>TEC 59432108 |
| 15. | PTP PMP Microwave Fixed Radio Systems         | Interface: 10/100 BASE-T Ethernet      | Link Speed and Auto negotiation<br>Test FE<br>IEEE 802.3 | TEC ER No.<br>TEC 56422005 |
|     |                                               | Interface: 10/100/1000 BASE-T Ethernet | Link Speed and Auto negotiation<br>Test GE<br>IEEE 802.3 | TEC ER No.<br>TEC 56422005 |
|     |                                               | Interface: 1G Optical Ethernet         | Average Launch Power<br>IEEE 802.3z Cl. 38               | TEC ER No.<br>TEC 56422005 |
|     |                                               |                                        | Receiver Sensitivity<br>IEEE 802.3z Cl. 38               | TEC ER No.<br>TEC 56422005 |
|     |                                               |                                        | Wavelength<br>IEEE 802.3z Cl. 38                         | TEC ER No.<br>TEC 56422005 |

  
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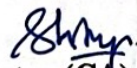
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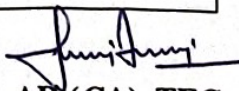
**Page** 28 **of** 32

**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product             | Test Parameter or Type of Testing |                                                 | Standard/Specification     |
|---------|---------------------------------------|-----------------------------------|-------------------------------------------------|----------------------------|
|         | PTP PMP Microwave Fixed Radio Systems | Interface:<br>2 Mbps - E1         | Nominal Bit Rate with Tolerance.<br>ITU-T G.703 | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Input Jitter Tolerance<br>ITU-T G.823           | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Input Return Loss<br>ITU-T G.703                | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Output Jitter<br>ITU-T G.823                    | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Pulse Mask<br>ITU-T G.703                       | TEC ER No.<br>TEC 56422005 |
|         |                                       | Interface:<br>STM-1<br>Electrical | Input Jitter Tolerance<br>ITU-T G.825           | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Input Return Loss<br>ITU-T G.703                | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Nominal Bit Rate with Tolerance<br>ITU-T G.703  | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Output Jitter<br>ITU-T G.825                    | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Pulse Mask<br>ITU-T G.703                       | TEC ER No.<br>TEC 56422005 |

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

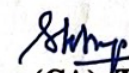
**Page 29 of 32**

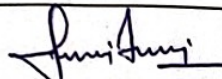
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|---------|---------------------------|-----------------------------------|-------------------------|
|---------|---------------------------|-----------------------------------|-------------------------|

|  |                                                          |                                         |                                                |                            |
|--|----------------------------------------------------------|-----------------------------------------|------------------------------------------------|----------------------------|
|  | <b>PTP PMP<br/>Microwave<br/>Fixed Radio<br/>Systems</b> | <b>Interface:<br/>STM-1<br/>Optical</b> | Input Jitter Tolerance<br>ITU-T G.825          | TEC ER No.<br>TEC 56422005 |
|  |                                                          |                                         | Mean Launched Power<br>ITU-T G.957             | TEC ER No.<br>TEC 56422005 |
|  |                                                          |                                         | Nominal Bit Rate with Tolerance<br>ITU-T G.957 | TEC ER No.<br>TEC 56422005 |
|  |                                                          |                                         | Operating Wavelength Range<br>ITU-T G.957      | TEC ER No.<br>TEC 56422005 |
|  |                                                          |                                         | Output Jitter<br>ITU-T G.783                   | TEC ER No.<br>TEC 56422005 |
|  |                                                          |                                         | Receiver Overload<br>ITU-T G.957               | TEC ER No.<br>TEC 56422005 |
|  |                                                          |                                         | Receiver Sensitivity<br>ITU-T G.957            | TEC ER No.<br>TEC 56422005 |
|  |                                                          | <b>Interface:<br/>STM-4<br/>Optical</b> | Input Jitter Tolerance<br>ITU-T G.825          | TEC ER No.<br>TEC 56422005 |
|  |                                                          |                                         | Mean Launched Power<br>ITU-T G.957             | TEC ER No.<br>TEC 56422005 |
|  |                                                          |                                         | Nominal Bit Rate with Tolerance<br>ITU-T G.957 | TEC ER No.<br>TEC 56422005 |
|  |                                                          |                                         | Operating Wavelength Range<br>ITU-T G.957      | TEC ER No.<br>TEC 56422005 |

  
**Director (CA), TEC**

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 30/03/2025 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-110002

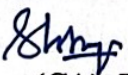
**Certificate Number:** TEC/MRA/CAB/IND-D/71-II

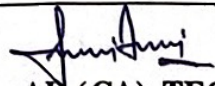
**Page 30 of 32**

**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/ Product            | Test Parameter or Type of Testing |                                                | Standard/ Specification    |
|---------|---------------------------------------|-----------------------------------|------------------------------------------------|----------------------------|
|         | PTP PMP Microwave Fixed Radio Systems | Interface: STM-4 Optical          | Output Jitter<br>ITU-T G.783                   | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Receiver Overload<br>ITU-T G.957               | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Receiver Sensitivity<br>ITU-T G.957            | TEC ER No.<br>TEC 56422005 |
|         |                                       | Interface: STM- 16 Optical        | Input Jitter Tolerance<br>ITU-T G.825          | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Mean Launched Power<br>ITU-T G.957             | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Nominal Bit Rate with Tolerance<br>ITU-T G.957 | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Operating Wavelength Range<br>ITU-T G.957      | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Output Jitter<br>ITU-T G.783                   | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Receiver Overload<br>ITU-T G.957               | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   | Receiver Sensitivity<br>ITU-T G.957            | TEC ER No.<br>TEC 56422005 |
|         |                                       |                                   |                                                |                            |
|         |                                       |                                   |                                                |                            |
|         |                                       |                                   |                                                |                            |
|         |                                       |                                   |                                                |                            |

  
Director (CA), 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-110002

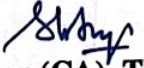
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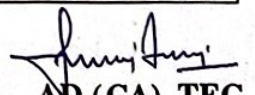
**Page 31 of 32**

**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing       | Standard/Specification                                                                      |
|---------|---------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------|
| 16.     | Point of Sale Devices     | Interface: 2 Wire                       | Longitudinal Conversion Loss for 2W Int.<br>Q.552 Cl. 2.2.2                                 |
|         |                           |                                         | Return Loss for 2W Int.<br>Q.552 Cl. 2.2.1.2                                                |
|         |                           |                                         | DC Resistance<br>ETSI TBR-21 Clause 4.4.1                                                   |
|         |                           |                                         | Resistance to Earth<br>ETSI TBR-21 Clause 4.4.4                                             |
|         |                           |                                         | Minimum Current on Junction/<br>Trunk Line<br>ETSI EN 300 001, Annex-D                      |
| 17.     | Compact Cellular Network  | Parameters Linked with Product Variants | IPV6 Extn. Header Parameters<br>RFC 2460 / RFC 8200,<br>Annex- P 7<br>(Conformance Testing) |
|         |                           |                                         | IPV6 Header Parameters<br>RFC 2460 / RFC 8200,<br>Annex- P 7<br>(Conformance Testing)       |

  
Director (CA), TEC

  
AD (CA), 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-110002

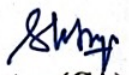
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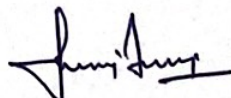
Page 32 of 32

**Validity:** 31/03/2022 to 30/03/2025\*

**Last Amended on:** \_\_\_\_

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing       |                                                                                                        | Standard/Specification     |
|---------|---------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------|
|         | Compact Cellular Network  | Parameters Linked with Product Variants | Dual IP Layer Operation<br>RFC 4213 – Address, Annex- P 6<br>RFC 4213 Cl. 2.1<br>(Conformance Testing) | TEC ER No.<br>TEC 42272108 |
|         |                           |                                         | Dual IP Layer Operation<br>RFC 4213 – DNS, Annex- P 6<br>RFC 4213 Cl. 2.2<br>(Conformance Testing)     | TEC ER No.<br>TEC 42272108 |

  
Director (CA), TEC

  
AD (CA), TEC

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

## **CERTIFICATE OF DESIGNATION**

**M/s Compliance International Telecom Laboratories, New Delhi  
(A unit of Compliance International Pvt. Ltd.)**

has been assessed and designated as Conformity Assessment Body (CAB)  
for its facilities at

**X-35, 3rd Floor, Okhla Phase-II, New Delhi-110020**

**In the field of Testing**

**Certificate No. TEC/MRA/CAB/IND-D/71-III**

**Issue Date: 23/09/2022**

**Valid until: 22/09/2025**

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

**(To see the scope of designation of this laboratory, you may also visit TEC website [www.tec.gov.in](http://www.tec.gov.in))**

**Signed for and on behalf of TEC**

**Nitin Jain  
Deputy Director General (CA)  
For Designating Authority  
TEC**



Certificate No: TEC/MRA/CAB/IND-D/71-III dated 23/09/2022 issued to  
M/s Compliance International Telecom Laboratories, New Delhi  
(A unit of Compliance International Pvt. Ltd.)  
X-35, 3rd Floor, Okhla Phase-2, New Delhi-110 020



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

### Terms & Conditions

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

Some of the conditions are reiterated as under:

#### **A. Obligations of the Designated CAB.**

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

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



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

## **B. REFERENCE TO DESIGNATION STATUS**

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

## **C. POST-DESIGNATION SURVEILLANCE**

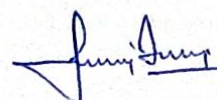
As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

## **D. SUSPENSION OR WITHDRAWAL OF DESIGNATION**

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

## **E. AMENDMENT TO THE SCHEME**

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

 Page 2 of 2



**SCOPE OF DESIGNATION**  
**(ANNEXURE)**

**Laboratory Name:** M/s Compliance International Telecom Laboratories, New Delhi  
(A unit of Compliance International Pvt. Ltd.)  
X-35, 3rd Floor, Okhla Phase-2, New Delhi-110 020.

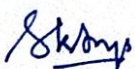
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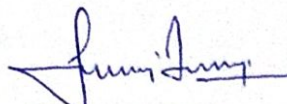
Page 1 of 1

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

**Last Amended on:** ----

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing               | Standard/Specification    |
|---------|---------------------------|-------------------------------------------------|---------------------------|
| 1.      | Router                    | PPPoE RFC 2516@ Annex P 11                      | TEC ER No.<br>TEC37682204 |
|         |                           | Radius RFC 2865@ Annex P 11                     | TEC ER No.<br>TEC37682204 |
| 2.      | IP Security Equipment     | IPSec Functional Test @ Annex P 11              | TEC ER No.<br>TEC34731911 |
|         |                           | Policy Functional Test @ Annex P 11             | TEC ER No.<br>TEC34731911 |
|         |                           | NAT Functional Test @ Annex P 11                | TEC ER No.<br>TEC34731911 |
| 3.      | LAN Switch                | Mac Learning and Packet Forwarding @ Annex P 11 | TEC ER No.<br>TEC37942207 |

  
Director (CA), TEC

  
AD (CA), TEC

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