



**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 AA Electro Magnetic Test Laboratory Private Limited, Gurugram**  
has been assessed and designated as Conformity Assessment Body (CAB)  
for its facilities at

**Plot No. 174, Duo Vihar, Phase-4, Sector-18, Gurugram-122016**

**In the field of Testing**

**Certificate No. TEC/MRA/CAB/IND-D/63-III**

**Issue Date: 26/04/2023**

**Validity: 26/04/2023 to 25/04/2026**

**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**

**Sanjeev Kumar Arya  
Director (CA)  
For Designating Authority  
TEC**

Certificate No: TEC/MRA/CAB/IND-D/63-III dated 26/04/2023 issued to  
M/s AA Electro Magnetic Test Laboratory Private Limited,  
Gurugram Plot No. 174, Udyog Vihar, Phase-4, Sector-18,  
Gurugram-122016



Validity: - 26/04/2023 to 25/04/2026

### 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 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**

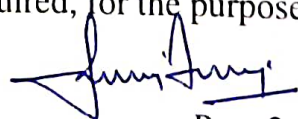
As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

## **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.





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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

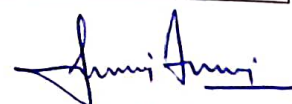
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 1 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product    | Test Parameter or Type of Testing                                       | Standard/Specification    |
|---------|------------------------------|-------------------------------------------------------------------------|---------------------------|
| 1.      | Mobile Radio Trunking System | Parameters link with Product Variant                                    |                           |
|         |                              | Transient behaviour of the transmitter<br>ETSI EN 300 113<br>Cl. 7.9    | TEC ER No.<br>TEC56782301 |
|         |                              | Frequency error<br>ETSI EN 300 113<br>Cl. 7.1                           | TEC ER No.<br>TEC56782301 |
|         |                              | Transmitter power (conducted)<br>ETSI EN 300 113<br>Cl. 7.2             | TEC ER No.<br>TEC56782301 |
|         |                              | Unwanted emissions in the spurious domain<br>ETSI EN 300 113<br>Cl. 7.5 | TEC ER No.<br>TEC56782301 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**



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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

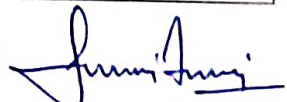
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 2 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product           | Test Parameter or Type of Testing                                                         | Standard/Specification    |
|---------|-------------------------------------|-------------------------------------------------------------------------------------------|---------------------------|
|         | <b>Mobile Radio Trunking System</b> | Adjacent and alternate channel power<br>ETSI EN 300 113<br>Cl. 7.4                        | TEC ER No.<br>TEC56782301 |
|         |                                     | Arrangements for test signals applied to the receiver input<br>ETSI EN 300 113<br>Cl. 6.1 | TEC ER No.<br>TEC56782301 |
|         |                                     | Artificial Antenna<br>ETSI EN 300 113<br>Cl. 6.7                                          | TEC ER No.<br>TEC56782301 |
|         |                                     | Encoder for receiver measurements<br>ETSI EN 300 113<br>Cl. 6.4                           | TEC ER No.<br>TEC56782301 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

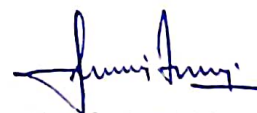
**Page 3 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

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

|  |                                     |                                                                |                           |
|--|-------------------------------------|----------------------------------------------------------------|---------------------------|
|  | <b>Mobile Radio Trunking System</b> | Facilities for access<br>ETSI EN 300 113<br>Cl. 6.9            | TEC ER No.<br>TEC56782301 |
|  |                                     | Impedance<br>ETSI EN 300 113<br>Cl. 6.6                        | TEC ER No.<br>TEC56782301 |
|  |                                     | Inter modulation attenuation<br>ETSI EN 300 113<br>Cl. 7.6     | TEC ER No.<br>TEC56782301 |
|  |                                     | Maximum Effective radiated power<br>ETSI EN 300 113<br>Cl. 7.3 | TEC ER No.<br>TEC56782301 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

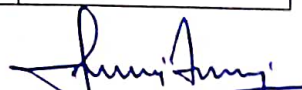
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 4 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/ Product          | Test Parameter or Type of Testing                                                                    | Standard/ Specification   |
|---------|-------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------|
|         | <b>Mobile Radio Trunking System</b> | Modes of operation of the transmitter for constant envelope equipment<br>ETSI EN 300 113<br>Cl. 6.11 | TEC ER No.<br>TEC56782301 |
|         |                                     | Normal test signals (wanted and unwanted signals)<br>ETSI EN 300 113<br>Cl. 6.3                      | TEC ER No.<br>TEC56782301 |
|         |                                     | Receiver mute or squelch facility<br>ETSI EN 300 113<br>Cl. 6.2                                      | TEC ER No.<br>TEC56782301 |
|         |                                     | Technical characteristics of the transmitter<br>ETSI EN 300 113<br>Cl. 7                             | TEC ER No.<br>TEC56782301 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**



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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

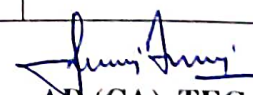
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 5 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product           | Test Parameter or Type of Testing                                                                                      | Standard/Specification    |
|---------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------|
|         | <b>Mobile Radio Trunking System</b> | Test site and general arrangements for measurements involving the use of radiated field<br>ETSI EN 300 113<br>Cl. 6.10 | TEC ER No.<br>TEC56782301 |
|         |                                     | Test of equipment with a duplex filter<br>ETSI EN 300 113<br>Cl. 6.8                                                   | TEC ER No.<br>TEC56782301 |
|         |                                     | Transceiver data interface<br>ETSI EN 300 113<br>Cl. 6.5                                                               | TEC ER No.<br>TEC56782301 |
|         |                                     | Transmitter attack time<br>ETSI EN 300 113<br>Cl. 7.7                                                                  | TEC ER No.<br>TEC56782301 |

  
**AB (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

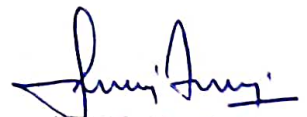
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 6 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/ Product     | Test Parameter or Type of Testing                           | Standard/ Specification                                            |
|---------|--------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------|
|         | Mobile Radio Trunking System   | Transmitter release time<br>ETSI EN 300 113<br>Cl. 7.8      | TEC ER No.<br>TEC56782301                                          |
| 2.      | VHF UHF Radio System Equipment | Parameters link with Product Variant                        | Adjacent and alternate channel power<br>ETSI EN 300 113<br>Cl. 7.4 |
|         |                                | Frequency error<br>ETSI EN 300 113<br>Cl. 7.1               | TEC ER No.<br>TEC58432301                                          |
|         |                                | Transmitter power (conducted)<br>ETSI EN 300 113<br>Cl. 7.2 | TEC ER No.<br>TEC58432301                                          |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

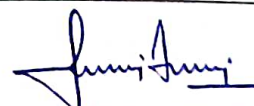
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 7 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/ Product            | Test Parameter or Type of Testing                                                         | Standard/ Specification   |
|---------|---------------------------------------|-------------------------------------------------------------------------------------------|---------------------------|
|         | <b>VHF UHF Radio System Equipment</b> | Unwanted emissions in the spurious domain<br>ETSI EN 300 113<br>Cl. 7.5                   | TEC ER No.<br>TEC58432301 |
|         |                                       | Transient behaviour of the transmitter<br>ETSI EN 300 113<br>Cl. 7.9                      | TEC ER No.<br>TEC58432301 |
|         |                                       | Arrangements for test signals applied to the receiver input<br>ETSI EN 300 113<br>Cl. 6.1 | TEC ER No.<br>TEC58432301 |
|         |                                       | Artificial antenna<br>ETSI EN 300 113<br>Cl. 6.7                                          | TEC ER No.<br>TEC58432301 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**



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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

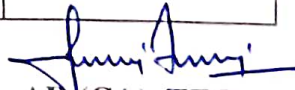
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 8 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product             | Test Parameter or Type of Testing                               | Standard/Specification    |
|---------|---------------------------------------|-----------------------------------------------------------------|---------------------------|
|         | <b>VHF UHF Radio System Equipment</b> | Encoder for receiver measurements<br>ETSI EN 300 113<br>Cl. 6.4 | TEC ER No.<br>TEC58432301 |
|         |                                       | Facilities for access<br>ETSI EN 300 113<br>Cl. 6.9             | TEC ER No.<br>TEC58432301 |
|         |                                       | Impedance<br>ETSI EN 300 113<br>Cl. 6.6                         | TEC ER No.<br>TEC58432301 |
|         |                                       | Inter modulation attenuation<br>ETSI EN 300 113<br>Cl. 7.6      | TEC ER No.<br>TEC58432301 |
|         |                                       | Maximum Effective radiated power<br>ETSI EN 300 113<br>Cl. 7.3  | TEC ER No.<br>TEC58432301 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

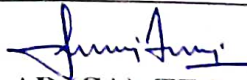
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 9 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/ Product            | Test Parameter or Type of Testing                                                                    | Standard/ Specification   |
|---------|---------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------|
|         | <b>VHF UHF Radio System Equipment</b> | Modes of operation of the transmitter for constant envelope equipment<br>ETSI EN 300 113<br>Cl. 6.11 | TEC ER No.<br>TEC58432301 |
|         |                                       | Normal test signals (wanted and unwanted signals)<br>ETSI EN 300 113<br>Cl. 6.3                      | TEC ER No.<br>TEC58432301 |
|         |                                       | Receiver mute or squelch facility<br>ETSI EN 300 113<br>Cl. 6.2                                      | TEC ER No.<br>TEC58432301 |
|         |                                       | Technical characteristics of the transmitter<br>ETSI EN 300 113<br>Cl. 7                             | TEC ER No.<br>TEC58432301 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

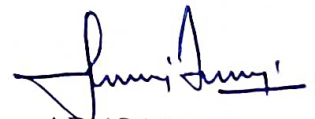
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 10 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product             | Test Parameter or Type of Testing                                                                                      | Standard/ Specification   |
|---------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------|
|         | <b>VHF UHF Radio System Equipment</b> | Test site and general arrangements for measurements involving the use of radiated field<br>ETSI EN 300 113<br>Cl. 6.10 | TEC ER No.<br>TEC58432301 |
|         |                                       | Test of equipment with a duplex filter<br>ETSI EN 300 113<br>Cl. 6.8                                                   | TEC ER No.<br>TEC58432301 |
|         |                                       | Transceiver data interface<br>ETSI EN 300 113<br>Cl. 6.5                                                               | TEC ER No.<br>TEC58432301 |
|         |                                       | Transmitter attack time<br>ETSI EN 300 113<br>Cl. 7.7                                                                  | TEC ER No.<br>TEC58432301 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**



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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

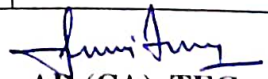
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 11 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/ Product        | Test Parameter or Type of Testing                |                                                                          | Standard/ Specification   |
|---------|-----------------------------------|--------------------------------------------------|--------------------------------------------------------------------------|---------------------------|
|         | VHF UHF Radio System Equipment    |                                                  | Transmitter release time<br>ETSI EN 300 113<br>Cl. 7.8                   | TEC ER No.<br>TEC58432301 |
| 3.      | Base Station for Cellular Network | BTS with AAS (up to 4G only & excluding OTA AAS) | Base Station output power<br>3GPP TS 37.145-1<br>Clause 6.2              | TEC ER No.<br>TEC42722304 |
|         |                                   |                                                  | Spurious emission<br>3GPP TS 37.145-1<br>Clause 6.6.6                    | TEC ER No.<br>TEC42722304 |
|         |                                   |                                                  | Operating band unwanted emission<br>3GPP TS 37.145-1<br>Clause 6.6.5     | TEC ER No.<br>TEC42722304 |
|         |                                   |                                                  | Adjacent Channel Leakage Power Ratio<br>3GPP TS 37.145-1<br>Clause 6.6.3 | TEC ER No.<br>TEC42722304 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

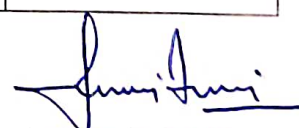
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 12 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/ Product               | Test Parameter or Type of Testing                                     | Standard/ Specification   |
|---------|------------------------------------------|-----------------------------------------------------------------------|---------------------------|
|         | <b>Base Station for Cellular Network</b> | Spectrum emission mask<br>3GPP TS 37.145-1<br>Clause 6.6.4            | TEC ER No.<br>TEC42722304 |
|         |                                          | Transmitter intermodulation<br>3GPP TS 37.145-1<br>Clause 6.7         | TEC ER No.<br>TEC42722304 |
|         |                                          | Reference sensitivity level<br>3GPP TS 37.145-1<br>Clause 7.2         | TEC ER No.<br>TEC42722304 |
|         |                                          | Blocking or out-of-band<br>blocking<br>3GPP TS 37.145-1<br>Clause 7.5 | TEC ER No.<br>TEC42722304 |
|         |                                          | Receiver spurious emissions<br>3GPP TS 37.145-1<br>Clause 7.6         | TEC ER No.<br>TEC42722304 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

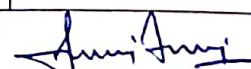
**Page 13 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

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

|  |                                          |                                     |                                                                               |                           |
|--|------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------|---------------------------|
|  | <b>Base Station for Cellular Network</b> |                                     | Receiver intermodulation<br>3GPP TS 37.145-1<br>Clause 7.7                    | TEC ER No.<br>TEC42722304 |
|  |                                          | <b>BTS with MSR (up to 4G only)</b> | Base Station output power<br>3GPP TS 37.141<br>Clause 6.2                     | TEC ER No.<br>TEC42722304 |
|  |                                          |                                     | Operating band unwanted emissions<br>3GPP TS 37.141<br>Clause 6.6.2           | TEC ER No.<br>TEC42722304 |
|  |                                          |                                     | Adjacent Channel Leakage Power Ratio (ACLR)<br>3GPP TS 37.141<br>Clause 6.6.4 | TEC ER No.<br>TEC42722304 |
|  |                                          |                                     | Transmitter intermodulation<br>3GPP TS 37.141<br>Clause 6.7                   | TEC ER No.<br>TEC42722304 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**



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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

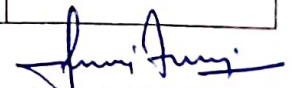
**Page 14 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

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

|  |                                          |                                                                                                               |                           |
|--|------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------|
|  | <b>Base Station for Cellular Network</b> | Receiver spurious emissions<br>3GPP TS 37.141<br>Clause 7.6                                                   | TEC ER No.<br>TEC42722304 |
|  |                                          | In-band selectivity and blocking or In Band Blocking and Narrow band Blocking<br>3GPP TS 37.141<br>Clause 7.4 | TEC ER No.<br>TEC42722304 |
|  |                                          | Out-of-band blocking<br>3GPP TS 37.141<br>Clause 7.5                                                          | TEC ER No.<br>TEC42722304 |
|  |                                          | Receiver intermodulation<br>3GPP TS 37.141<br>Clause 7.7                                                      | TEC ER No.<br>TEC42722304 |
|  |                                          | Reference sensitivity level<br>3GPP TS 37.141<br>Clause 7.2                                                   | TEC ER No.<br>TEC42722304 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

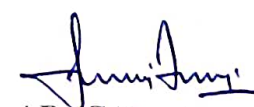
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 15 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product         | Test Parameter or Type of Testing |                                                                               | Standard/Specification    |
|---------|-----------------------------------|-----------------------------------|-------------------------------------------------------------------------------|---------------------------|
|         | Base Station for Cellular Network | eNodeB for LTE                    | Operating band unwanted emissions<br>3GPP TS 36.141<br>Clause 6.6.3           | TEC ER No.<br>TEC42722304 |
|         |                                   |                                   | Adjacent Channel Leakage Power Ratio (ACLR)<br>3GPP TS 36.141<br>Clause 6.6.2 | TEC ER No.<br>TEC42722304 |
|         |                                   |                                   | Transmitter spurious emissions<br>3GPP TS 36.141<br>Clause 6.6.4              | TEC ER No.<br>TEC42722304 |
|         |                                   |                                   | Base station output power<br>3GPP TS 36.141<br>Clause 6.2                     | TEC ER No.<br>TEC42722304 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

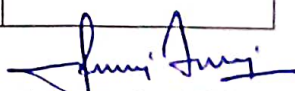
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 16 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product         | Test Parameter or Type of Testing                                                                 | Standard/Specification    |
|---------|-----------------------------------|---------------------------------------------------------------------------------------------------|---------------------------|
|         | Base Station for Cellular Network | Transmitter intermodulation<br>3GPP TS 36.141<br>Clause 6.7                                       | TEC ER No.<br>TEC42722304 |
|         |                                   | Receiver spurious emissions<br>3GPP TS 36.141<br>Clause 7.7                                       | TEC ER No.<br>TEC42722304 |
|         |                                   | Blocking<br>3GPP TS 36.141<br>Clause 7.6                                                          | TEC ER No.<br>TEC42722304 |
|         |                                   | Receiver intermodulation<br>3GPP TS 36.141<br>Clause 7.8                                          | TEC ER No.<br>TEC42722304 |
|         |                                   | Adjacent Channel Selectivity<br>(ACS) and narrow-band<br>blocking<br>3GPP TS 36.141<br>Clause 7.5 | TEC ER No.<br>TEC42722304 |

  
AD (CA), TEC

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**



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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

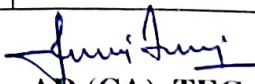
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 17 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product                | Test Parameter or Type of Testing                                                                                                   | Standard/Specification    |
|---------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|         | <b>Base Station for Cellular Network</b> | Reference sensitivity level<br>3GPP TS 36.141<br>Clause 7.2                                                                         | TEC ER No.<br>TEC42722304 |
|         |                                          | Home BS output power for adjacent UTRA channel protection: Applicable to Home Base Station only<br>3GPP TS 36.141<br>Clause 6.2.6   | TEC ER No.<br>TEC42722304 |
|         |                                          | Home BS output power for adjacent E-UTRA channel protection: Applicable to Home Base Station only<br>3GPP TS 36.141<br>Clause 6.2.7 | TEC ER No.<br>TEC42722304 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

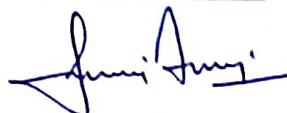
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 18 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product                | Test Parameter or Type of Testing                                                                                             | Standard/Specification    |
|---------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|         | <b>Base Station for Cellular Network</b> | Home BS output power for co-channel E-UTRA protection: Applicable to Home Base Station only<br>3GPP TS 36.141<br>Clause 6.2.8 | TEC ER No.<br>TEC42722304 |
|         |                                          | <b>NodeB for WCDMA</b>                                                                                                        |                           |
|         |                                          | Spectrum emission mask<br>3GPP TS 25.141<br>Clause 6.5.2.1                                                                    | TEC ER No.<br>TEC42722304 |
|         |                                          | Adjacent Channel Leakage Power Ratio (ACLR)<br>3GPP TS 25.141<br>Clause 6.5.2.2                                               | TEC ER No.<br>TEC42722304 |
|         |                                          | Spurious emissions<br>3GPP TS 25.141<br>Clause 6.5.3                                                                          | TEC ER No.<br>TEC42722304 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

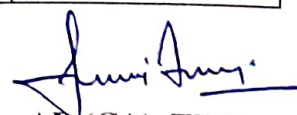
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 19 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product                | Test Parameter or Type of Testing                               | Standard/Specification    |
|---------|------------------------------------------|-----------------------------------------------------------------|---------------------------|
|         | <b>Base Station for Cellular Network</b> | Base station output power<br>3GPP TS 25.141<br>Clause 6.2       | TEC ER No.<br>TEC42722304 |
|         |                                          | Transmitter intermodulation<br>3GPP TS 25.141<br>Clause 6.6     | TEC ER No.<br>TEC42722304 |
|         |                                          | Spurious Emissions<br>3GPP TS 25.141<br>Clause 7.7              | TEC ER No.<br>TEC42722304 |
|         |                                          | Blocking characteristics<br>3GPP TS 25.141<br>Clause 7.5        | TEC ER No.<br>TEC42722304 |
|         |                                          | Intermodulation characteristics<br>3GPP TS 25.141<br>Clause 7.6 | TEC ER No.<br>TEC42722304 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**



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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

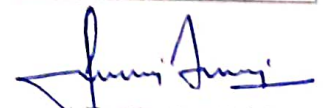
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 20 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product                | Test Parameter or Type of Testing |                                                                                                  | Standard/ Specification   |
|---------|------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------|---------------------------|
|         | <b>Base Station for Cellular Network</b> |                                   | Adjacent Channel Selectivity (ACS)<br>3GPP TS 25.141<br>Clause 7.4                               | TEC ER No.<br>TEC42722304 |
|         |                                          |                                   | Reference sensitivity level<br>3GPP TS 25.141<br>Clause 7.2                                      | TEC ER No.<br>TEC42722304 |
|         |                                          |                                   | Home base station output power for adjacent channel protection<br>3GPP TS 25.141<br>Clause 6.4.6 | TEC ER No.<br>TEC42722304 |
|         | <b>BTS for GSM</b>                       |                                   | Adjacent channel power<br>3GPP TS 51.021<br>Clause 6.5                                           | TEC ER No.<br>TEC42722304 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

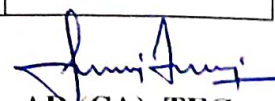
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 21 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product                | Test Parameter or Type of Testing                                                                                   | Standard/Specification    |
|---------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------|
|         | <b>Base Station for Cellular Network</b> | Wideband noise and intra BSS intermodulation attenuation in multicarrier operation<br>3GPP TS 51.021<br>Clause 6.12 | TEC ER No.<br>TEC42722304 |
|         |                                          | Spurious emissions from the transmitter antenna connector<br>3GPP TS 51.021<br>Clause 6.6                           | TEC ER No.<br>TEC42722304 |
|         |                                          | Intermodulation attenuation<br>3GPP TS 51.021<br>Clause 6.7                                                         | TEC ER No.<br>TEC42722304 |
|         |                                          | Intra Base Station System intermodulation attenuation<br>3GPP TS 51.021<br>Clause 6.8                               | TEC ER No.<br>TEC42722304 |

  
AD(CA), TEC

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

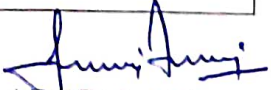
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 22 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product                | Test Parameter or Type of Testing                                  | Standard/Specification    |
|---------|------------------------------------------|--------------------------------------------------------------------|---------------------------|
|         | <b>Base Station for Cellular Network</b> | Radiated spurious emissions<br>3GPP TS 51.021<br>Clause 8          | TEC ER No.<br>TEC42722304 |
|         |                                          | Static Reference Sensitivity Level<br>3GPP TS 51.021<br>Clause 7.3 | TEC ER No.<br>TEC42722304 |
|         |                                          | Reference interference level<br>3GPP TS 51.021<br>Clause 7.5       | TEC ER No.<br>TEC42722304 |
|         |                                          | Blocking Characteristics<br>3GPP TS 51.021<br>Clause 7.6           | TEC ER No.<br>TEC42722304 |
|         |                                          | Intermodulation characteristics<br>3GPP TS 51.021<br>Clause 7.7    | TEC ER No.<br>TEC42722304 |

  
AD(CA), TEC

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**



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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

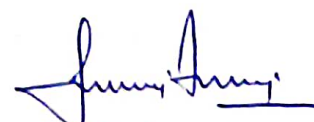
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 23 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product         | Test Parameter or Type of Testing |                                                                                        | Standard/Specification    |
|---------|-----------------------------------|-----------------------------------|----------------------------------------------------------------------------------------|---------------------------|
|         | Base Station for Cellular Network |                                   | AM suppression<br>3GPP TS 51.021<br>Clause 7.8                                         | TEC ER No.<br>TEC42722304 |
|         |                                   |                                   | Spurious emissions from the receiver antenna connector<br>3GPP TS 51.021<br>Clause 7.9 | TEC ER No.<br>TEC42722304 |
| 4.      | LAN Switch                        | Interface: 1 G Optical Ethernet   | Average Launch power<br>IEEE 802.3z Cl. 38. Annex-H                                    | TEC ER No.<br>TEC37942304 |
|         |                                   |                                   | Receiver Sensitivity<br>IEEE 802.3z Cl. 38. Annex-H                                    | TEC ER No.<br>TEC37942304 |
|         |                                   |                                   | Wavelength<br>IEEE 802.3z Cl. 38. Annex-H                                              | TEC ER No.<br>TEC37942304 |
|         |                                   | Interface: 10 G Optical Ethernet  | Average Launch power<br>IEEE 802.3ae<br>Cl. 52. Annex-H                                | TEC ER No.<br>TEC37942304 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

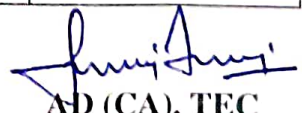
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 24 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing                                                               | Standard/Specification    |
|---------|---------------------------|-------------------------------------------------------------------------------------------------|---------------------------|
|         | LAN Switch                | Receiver Sensitivity<br>IEEE 802.3ae<br>Cl. 52. Annex-H                                         | TEC ER No.<br>TEC37942304 |
|         |                           | Wavelength<br>IEEE 802.3ae<br>Cl. 52. Annex-H                                                   | TEC ER No.<br>TEC37942304 |
|         |                           | Interface: 100 G Optical Ethernet<br>Average Launch power<br>IEEE 802.3ba<br>Cl. 86 88. Annex-H | TEC.ER No.<br>TEC37942304 |
|         |                           | Receiver Sensitivity<br>IEEE 802.3ba<br>Cl. 86 88. Annex-H                                      | TEC ER No.<br>TEC37942304 |
|         |                           | Wavelength<br>IEEE 802.3ba<br>Cl. 86 88. Annex-H                                                | TEC ER No.<br>TEC37942304 |
|         |                           | Interface: 40 G Optical Ethernet<br>Average Launch power<br>IEEE 802.3ba<br>Cl. 86 87. Annex-H  | TEC ER No.<br>TEC37942304 |

  
AD (CA), TEC

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

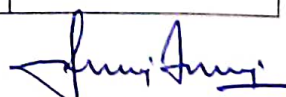
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 25 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing                           | Standard/Specification                                                                        |
|---------|---------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|         | LAN Switch                | Receiver Sensitivity<br>IEEE 802.3ba<br>Cl. 86 87. Annex-H  | TEC ER No.<br>TEC37942304                                                                     |
|         |                           | Wavelength<br>IEEE 802.3ba<br>Cl. 86 87. Annex-H            | TEC ER No.<br>TEC37942304                                                                     |
|         |                           | <b>Interface:</b><br><b>Fast Ethernet</b><br><b>Optical</b> | Average Launch power<br>IEEE 802.3u. Annex-H<br>TEC ER No.<br>TEC37942304                     |
|         |                           |                                                             | Receiver Sensitivity<br>IEEE 802.3u. Annex-H<br>TEC ER No.<br>TEC37942304                     |
|         |                           |                                                             | Wavelength<br>IEEE 802.3u. Annex-H<br>TEC ER No.<br>TEC37942304                               |
|         |                           | <b>Interface: 10<br/>100 1000<br/>BASE-T<br/>Ethernet</b>   | Link Speed and<br>Autonegotiation Test GE<br>IEEE 802.3. Annex-H<br>TEC ER No.<br>TEC37942304 |
|         |                           |                                                             |                                                                                               |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**



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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

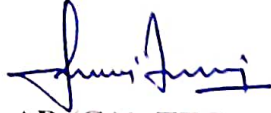
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 26 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product | Test Parameter or Type of Testing       |                                                                                           | Standard/ Specification   |
|---------|---------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------|---------------------------|
|         | LAN Switch                | Interface: 10<br>100 BASE-T<br>Ethernet | Link Speed and Auto<br>negotiation Test FE<br>IEEE 802.3 Annex-H                          | TEC ER No.<br>TEC37942304 |
|         |                           | Interface: 2<br>Mbps Int.               | Input Jitter Tolerance for 2<br>Mbps Int.<br>ITU-T G.823/ ETSI TBR-4                      | TEC ER No.<br>TEC37942304 |
|         |                           |                                         | Input Return Loss for 2 Mbps<br>Int.<br>ITU-T G.703/ ETSI TBR-4<br>Clause 9.3.1           | TEC ER No.<br>TEC37942304 |
|         |                           |                                         | Nominal Bit Rate with<br>Tolerance 2 Mbps Int.<br>ITU-T G.703/ ETSI TBR-4<br>Clause 9.2.3 | TEC ER No.<br>TEC37942304 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

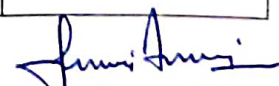
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 27 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product         | Test Parameter or Type of Testing      |                                                            | Standard/Specification |
|---------|-----------------------------------|----------------------------------------|------------------------------------------------------------|------------------------|
|         | LAN Switch                        |                                        | Output Jitter for 2 Mbps Int. ITU-T G.823/ ETSI TBR-4      | TEC ER No. TEC37942304 |
|         |                                   |                                        | Pulse Mask for 2 Mbps Int. ITU-T G.703/ ETSI TBR-4         | TEC ER No. TEC37942304 |
| 5.      | PON family of Broadband Equipment | Interface: 10/100 Base-T Ethernet      | Link Speed and Auto Negotiation for FE IEEE 802.3          | TEC ER No. TEC14762301 |
|         |                                   | Interface: 10/100/1000 Base-T Ethernet | Link Speed and Auto Negotiation for GE IEEE 802.3          | TEC ER No. TEC14762301 |
|         |                                   | Interface: EPON                        | Operating Wavelength receiver for EPON Int IEEE 802.3ah    | TEC ER No. TEC14762301 |
|         |                                   |                                        | Operating Wavelength Transmitter for EPON Int IEEE 802.3ah | TEC ER No. TEC14762301 |

  
AD (CA), TEC

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

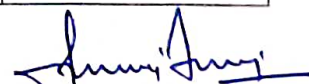
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 28 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product                | Test Parameter or Type of Testing |                                                                | Standard/Specification    |
|---------|------------------------------------------|-----------------------------------|----------------------------------------------------------------|---------------------------|
|         | <b>PON family of Broadband Equipment</b> |                                   | Opt Output Power for EPON Int at OLT<br>IEEE 802.3ah           | TEC ER No.<br>TEC14762301 |
|         |                                          |                                   | Opt Output Power for EPON Int at ONT<br>IEEE 802.3ah           | TEC ER No.<br>TEC14762301 |
|         |                                          |                                   | Receiver Sensitivity for EPON Int at OLT<br>IEEE 802.3ah       | TEC ER No.<br>TEC14762301 |
|         |                                          |                                   | Receiver Sensitivity for EPON Int at ONT<br>IEEE 802.3ah       | TEC ER No.<br>TEC14762301 |
|         |                                          | <b>Interface:<br/>GPON</b>        | Operating Wavelength Receiver for GPON Int<br>ITU-T G.984.2    | TEC ER No.<br>TEC14762301 |
|         |                                          |                                   | Operating Wavelength Transmitter for GPON Int<br>ITU-T G.984.2 | TEC ER No.<br>TEC14762301 |

  
AD (CA), TEC

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**



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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

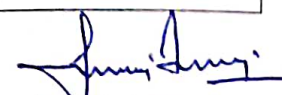
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 29 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product                | Test Parameter or Type of Testing                                                                | Standard/Specification    |
|---------|------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------|
|         | <b>PON family of Broadband Equipment</b> | Opt Output Power for GPON Int at OLT<br>ITU-T G.984.2                                            | TEC ER No.<br>TEC14762301 |
|         |                                          | Opt Output Power for GPON Int at ONT<br>ITU-T G.984.2                                            | TEC ER No.<br>TEC14762301 |
|         |                                          | Receiver Sensitivity for GPON Int at OLT<br>ITU-T G.984.2                                        | TEC ER No.<br>TEC14762301 |
|         |                                          | Receiver Sensitivity for GPON Int at ONT<br>ITU-T G.984.2                                        | TEC ER No.<br>TEC14762301 |
|         | <b>Interface:<br/>2 Wire</b>             | Idle State Current for 2 wire Int<br>(Products with 2 wire analog interfaces)<br>ETSI EN 300 001 | TEC ER No.<br>TEC14762301 |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

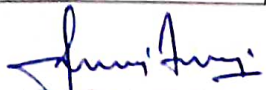
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 30 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No.   | Telecom Equipment/Product                     | Test Parameter or Type of Testing                                                                     | Standard/Specification |
|-----------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------|
|           | <b>PON family of Broadband Equipment</b>      | Insulation Test for 2 wire Int (Products with 2 wire analog interfaces)<br>ITU-T Q.552                | TEC ER No. TEC14762301 |
|           |                                               | Maximum Loop Current for 2W Int (Products with 2 wire analog TEC/IR/SW/PBX Interfaces)<br>ITU-T Q.552 | TEC ER No. TEC14762301 |
|           |                                               | Return Loss for 2 Wire Int (Products with 2 Wire analog Interfaces)<br>ITU-T Q.552                    | TEC ER No. TEC14762301 |
| <b>6.</b> | <b>IT Equipment Safety for Radio Products</b> | Components and construction<br>Cl. 6                                                                  | IEC 60215:2016         |
|           |                                               | Earthing<br>Cl. 7.2                                                                                   | IEC 60215:2016         |

  
AD (CA), TEC

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 31 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/ Product                    | Test Parameter or Type of Testing                                                  | Standard/ Specification |
|---------|-----------------------------------------------|------------------------------------------------------------------------------------|-------------------------|
|         | <b>IT Equipment Safety for Radio Products</b> | Enclosures<br>Cl. 7.3                                                              | IEC 60215:2016          |
|         |                                               | High Temperature, fire and miscellaneous hazards<br>Cl. 8                          | IEC 60215:2016          |
|         |                                               | Insulations<br>Cl. 7.6                                                             | IEC 60215:2016          |
|         |                                               | Mechanical consideration<br>Cl. 7.4                                                | IEC 60215:2016          |
|         |                                               | Protection against harmful electrical shock, radio frequency skin burns<br>Cl. 7.1 | IEC 60215:2016          |
|         |                                               | Voltage at the radio frequency output connection<br>Cl. 7.7                        | IEC 60215:2016          |
|         |                                               | Wiring and Terminations<br>Cl. 7.5                                                 | IEC 60215:2016          |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**



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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

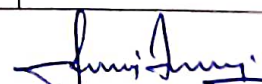
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 32 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product                            | Test Parameter or Type of Testing          | Standard/Specification  |
|---------|------------------------------------------------------|--------------------------------------------|-------------------------|
| 7.      | Environmental Testing of Telecommunication equipment | Low temperature (Cold Cycle)               | QM-333 Issue March 2010 |
|         |                                                      | High temperature (Dry Heat Cycle)          | QM-333 Issue March 2010 |
|         |                                                      | Tropical exposure (Damp Heat Cyclic)       | QM-333 Issue March 2010 |
|         |                                                      | Rapid temperature cycle                    | QM-333 Issue March 2010 |
|         |                                                      | Damp heat (Steady state)                   | QM-333 Issue March 2010 |
|         |                                                      | Vibration Test                             | QM-333 Issue March 2010 |
|         |                                                      | Sealing (Gas tightness)/High Altitude Test | QM-333 Issue March 2010 |
|         |                                                      | Water immersion Test                       | QM-333 Issue March 2010 |
|         |                                                      | Corrosion -Salt                            | QM-333 Issue March 2010 |

  
AB (CA), TEC

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

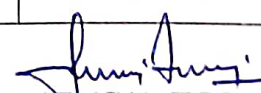
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 33 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No.   | Telecom Equipment/ Product                                  | Test Parameter or Type of Testing                                        | Standard/ Specification |
|-----------|-------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------|
|           | <b>Environmental Testing of Telecommunication equipment</b> | Drop Test                                                                | QM-333 Issue March 2010 |
|           |                                                             | Topple test                                                              | QM-333 Issue March 2010 |
|           |                                                             | Fall test                                                                | QM-333 Issue March 2010 |
|           |                                                             | Dust Test                                                                | QM-333 Issue March 2010 |
| <b>8.</b> | <b>Information Technology Equipment- Safety Part-22</b>     | Bottoms of fire enclosure Clause 8.4                                     | IEC 60950-22            |
|           |                                                             | Constructional requirements for outdoor enclosure, General Clause 8, 8.1 | IEC 60950-22            |
|           |                                                             | Impact test Clause 10.2                                                  | IEC 60950-22            |
|           |                                                             | Limited Current Circuits in outdoor locations Clause 6.2                 | IEC 60950-22            |
|           |                                                             | Mains Supply                                                             | IEC 60950-22            |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**

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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

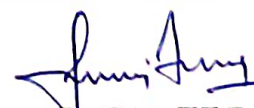
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 34 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/ Product                              | Test Parameter or Type of Testing                                                                                                   | Standard/ Specification |
|---------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
|         | <b>Information Technology Equipment- Safety Part-22</b> | Clause 4.2                                                                                                                          |                         |
|         |                                                         | Marking and instruction<br>Clause 5                                                                                                 | IEC 60950-22            |
|         |                                                         | Mechanical strength of enclosures,<br>General<br>Clause 10, 10.1                                                                    | IEC 60950-22            |
|         |                                                         | Protection from electrical shock in an outdoor location, Voltage limits of user-accessible parts in outdoor locations<br>Clause 6.1 | IEC 60950-22            |
|         |                                                         | Protection from plant and vermin<br>Clause 9.2                                                                                      | IEC 60950-22            |
|         |                                                         | Protection of equipment within an outdoor enclosure, Protection from moisture<br>Clause 9.1                                         | IEC 60950-22            |
|         |                                                         | Resistance to corrosion<br>Clause 8.3                                                                                               | IEC 60950-22            |
|         |                                                         |                                                                                                                                     |                         |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**



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

**Laboratory Name:** M/s AA Electro Magnetic Test Laboratory Private Limited,  
Plot No. 174, Udyog Vihar, Phase-4, Sector-18, Gurugram-  
122016.

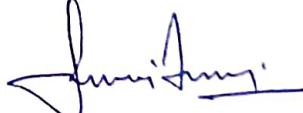
**Certificate Number:** TEC/MRA/CAB/IND-D/63-III

**Page 35 of 35**

**Validity:** 26/04/2023 to 25/04/2026

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

| Sl. No. | Telecom Equipment/Product                               | Test Parameter or Type of Testing           | Standard/Specification |
|---------|---------------------------------------------------------|---------------------------------------------|------------------------|
|         | <b>Information Technology Equipment- Safety Part-22</b> | Rise of earth potential Clause 4.3          | IEC 60950-22           |
|         |                                                         | Protection from excessive dust (IP5X, IP6X) | IEC 60950-22           |
|         |                                                         | Clause 9.3                                  |                        |

  
**AD (CA), TEC**

**\*The validity of Certificate is up to 25/04/2026 or the continued validity of NABL Accreditation, whichever is earlier.**