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ISO

9001:2015

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

## **CERTIFICATE OF DESIGNATION**

**M/s Nemko India (Test Lab) Pvt. Ltd.**  
has been assessed and designated as Conformity Assessment Body (CAB)  
for its facilities at

**Plot No. 2, 2<sup>nd</sup> Floor, DLF Industrial Estate-1, Sector-37, Faridabad, Haryana-121003**

**In the field of Testing**

**Certificate No. TEC/MRA/CAB/IND-D/19-I**

**Issue Date: 29/12/2021**

**Valid Until: 28/12/2024**

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

**(To see the scope of designation of this laboratory, you may also visit TEC website [www.tec.gov.in](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/19-I dated 29/12/2021 issued to  
M/s Nemko India (Test Lab) Pvt. Ltd.  
Plot No. 2, Second Floor, DLF Industrial Estate-1  
Sector-37, Faridabad, Haryana – 121003, INDIA**

**Validity: - 29/12/2021 to 28/12/2024**

### **Terms & Conditions**

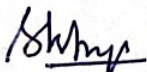
This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESEMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESEMENT AND CERTIFICATION OF TELECOMMUNICATION EQUIPMENT ISSUE 2 NO. TEC/DES-01/02.DEC.2017.

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.

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ISO

Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001 **9001:2015**

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

**Laboratory Name:** M/s Nemko India (Test Lab) Pvt. Ltd.  
Plot No. 2, Second Floor, DLF Industrial Estate-1  
Sector-37, (Near NHPC Metro Station),  
Faridabad, Haryana – 121003, INDIA

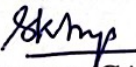
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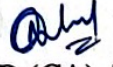
Page 1 of 7

**Validity:** 29/12/2021 to 28/12/2024

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

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
1.	<b>EMI/EMC Testing for Telecom Equipment</b>	Conducted Emission CISPR 11, CISPR 32 CISPR 14-1, CISPR 25	TEC/SD/DD/EMC-221/05/OCT-16
		DC Voltage Dips, short interruption and Voltage variations immunity Test IEC 61000-4-29	TEC/SD/DD/EMC-221/05/OCT-16
		Electrostatic discharge Immunity test IEC 61000-4-2	TEC/SD/DD/EMC-221/05/OCT-16
		Immunity to conducted disturbances, induced by radio-frequency fields IEC 61000-4-6	TEC/SD/DD/EMC-221/05/OCT-16
		Electrical fast transient/ burst immunity test IEC 61000-4-4	TEC/SD/DD/EMC-221/05/OCT-16
		Surge immunity test IEC 61000-4-5	TEC/SD/DD/EMC-221/05/OCT-16
		Voltage dips, short interruptions and voltage variation Immunity Tests IEC 61000-4-11	TEC/SD/DD/EMC-221/05/OCT-16

  
Director (CA), TEC

  
AD (CA), TEC

**\*The validity of Certificate is up to 28/12/2024 or the continued validity of NABL Accreditation, whichever is earlier.**

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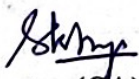
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**Validity:** 29/12/2021 to 28/12/2024

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>EMI/EMC Testing for Telecom Equipment</b>	Electrostatic Discharge immunity Test, High Energy/Telecom Surge immunity Test Electrostatic Discharge Immunity Test and High Energy / Telecom Surge Immunity Test ITU-T K.21	TEC/SD/DD/EMC-221/05/OCT-16
		High Energy / Telecom Surge Immunity Test ITU-T K.44	
2.	<b>Equipment operating in 2.4 GHz, 5 GHz frequency bands</b>	Duty Cycle, Tx sequence, Tx-gap Cl. 4.3.1.3, 4.3.2.4 & 5.3.2	ETSI EN 300 328
		Accumulated Transmit Time, Frequency occupation and Hopping Cl. 4.3.1.4 & 5.3.4	ETSI EN 300 328
		Hopping Frequency Separation Cl. 4.3.1.5 & 5.3.5	ETSI EN 300 328
		Medium Utilization Cl. 4.3.1.6, 4.3.2.5 & 5.3.2	ETSI EN 300 328

  
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Equipment operating in 2.4 GHz, 5 GHz frequency bands	Adaptivity Cl. 4.3.1.7, 4.3.2.6 & 5.3.7	ETSI EN 300 328
		Occupied Channel bandwidth Cl. 4.3.1.8, 4.3.2.7 & 5.3.8	ETSI EN 300 328
		Transmitter unwanted Emission in OOB Domain(conductive testing only) Cl. 4.3.1.9, 4.3.2.8 & 5.3.9	ETSI EN 300 328
		Receiver blocking Cl. 4.3.1.12, 4.3.2.11 & 5.3.7	ETSI EN 300 328
		Geolocation Capability Cl. 4.3.1.13, 4.3.2.12	ETSI EN 300 328
		RF Output Power Cl.4.3.1.2, 4.3.2.2 & 5.3.2	ETSI EN 300 328
		Power spectral density Cl. 4.3.2.3 & 5.3.3	ETSI EN 300 328
		Designation of Center Frequencies and frequency error Cl. 4.2.1	ETSI EN 302 502

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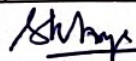
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
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**Validity:** 29/12/2021 to 28/12/2024

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

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Equipment operating in 2.4 GHz, 5 GHz frequency bands</b>	Transmitter RF output power, EIRP and EIRP spectral density Cl. 4.2.2	ETSI EN 302 502
		Transmitter Power Control (TPC) Cl. 4.2.4	ETSI EN 302 502
		Dynamic Frequency Selection(DFS) Cl.4.2.6	ETSI EN 302 502
		Receiver Blocking Cl. 4.2.7	ETSI EN 302 502
		User Access Restrictions Cl. 4.2.8	ETSI EN 302 502
		Carrier frequencies Cl. 4.2.1	ETSI EN 301 893
		Nominal and occupied channel bandwidth Cl. 4.2.2	ETSI EN 301 893
		RF output power, Transmit Power Control(TPC), Power Density Cl. 4.2.3	ETSI EN 301 893

  
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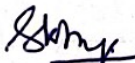
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Equipment operating in 2.4 GHz, 5 GHz frequency bands</b>	Transmitter unwanted emissions within the 5GHz RLAN bands(conductive testing only) Cl. 4.2.4.2	ETSI EN 301 893
		Dynamic Frequency Selection(DFS) Cl. 4.2.6.2	ETSI EN 301 893
		Adaptivity Cl. 4.2.7	ETSI EN 301 893
		Receiver Blocking Cl. 4.2.8	ETSI EN 301 893
		User Access Restrictions Cl. 4.2.9	ETSI EN 301 893
		Geo Location Capability Cl. 4.2.10	ETSI EN 301 893
3.	<b>Safety requirements for radio transmitting equipment</b>	Fault conditions Cl. 5.3	IEC 60215:2016
		Resistance to humidity Cl. 6.3.2	IEC 60215:2016

  
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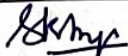
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
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Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	<b>Safety requirements for radio transmitting equipment</b>	General Cl. 7.1	IEC 60215:2016
		Enclosures Cl. 7.3	IEC 60215:2016
		High Temperatures Cl. 8.2	IEC 60215:2016
		Fire Cl. 8.3	IEC 60215:2016
		Clearance and Creepage distances Annex A	IEC 60215:2016
4.	<b>Environmental Testing of Telecommunication equipment</b>	Low Temperature (cold Cycle)	QM-333:2010
		High Temperature (Dry heat Cycle)	QM-333:2010
		Tropical exposure (Damp Heat cyclic)	QM-333:2010
		Rapid Temperature Cycle	QM-333:2010
		Damp Heat (steady state)	QM-333:2010

  
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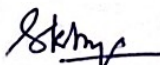
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
		Vibration test	QM-333:2010
		Drop test	QM-333:2010
		Topple Test	QM-333:2010
		Fall Test	QM-333:2010
5.	Mobile Phone Handsets (Part3-Indian Language Support for Mobile Phones Handsets-specific Requirements)	Mobile Device Indian language support Clause 5.1 & 5.2	IS 16333(Part3):2017

  
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