



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 Nemko India (Test Lab) Private Limited, Faridabad
has been assessed and designated as Conformity Assessment Body (CAB)
for its facilities at

Plot No. 193, Sector-68, IMT Faridabad-121 004

In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/19-II

Issue Date: 30/09/2022

Validity: 30/09/2022 to 29/09/2025

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)

Signed for and on behalf of TEC

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

Certificate No: TEC/MRA/CAB/IND-D/19-II dated 30/09/2022 issued to
M/s Nemko India (Test Lab) Private Limited, Faridabad
Plot No. 193, Sector-68, IMT Faridabad-121004



Validity: - 30/09/2022 to 29/09/2025

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

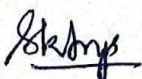
As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

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.



SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Nemko India (Test Lab) Private Limited, Faridabad
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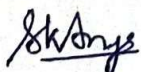
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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
1.	EMI/EMC Testing of Telecom Equipment	Radiated Susceptibility Test IEC 61000-4-3:2020	TEC/SD/DD/EMC-221/05/OCT-16 & ER Parameters
		Radiated Emission Test CISPR 32:2015+A1:2019 CISPR 14-1:2020 CISPR 11:2015+A1:2016+A2:2019	TEC/SD/DD/EMC-221/05/OCT-16 & ER Parameters
		2.	Audio/Video, Information and Communication Technology Equipment-Part-1: Safety Requirement
Equipment for direct insertion into mains socket outlets Clause 4.7	IEC 62368-1:2018		
Stress Relief Test Clause 4.8.4.2	IEC 62368-1:2018		
Battery Replacement Test Clause 4.8.4.3	IEC 62368-1:2018		
Drop Test Clause 4.8.4.4	IEC 62368-1:2018		



Director (CA), TEC



AD (CA), TEC

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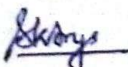
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Audio/Video, Information and Communication Technology Equipment-Part-1: Safety Requirement	Impact Test Clause 4.8.4.5	IEC 62368-1:2018
		Crush Test Clause 4.8.4.6	IEC 62368-1:2018
		Compliance Criteria Clause 4.8.5	IEC 62368-1:2018
		Accessibility to Electrical Energy Sources and Safeguards Clause 5.3.2	IEC 62368-1:2018
		Maximum Operating Temperature (Temperature Measurement) Clause 5.4.1.4	IEC 62368-1:2018
		Pollution Degrees Clause 5.4.1.5	IEC 62368-1:2018
		RMS Working Voltage Clause 5.4.1.8.2	IEC 62368-1:2018
		Vicat Test Clause 5.4.1.10.2	IEC 62368-1:2018


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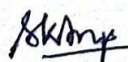
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Validity: **30/09/2022 to 29/09/2025**

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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Audio/Video, Information and Communication Technology Equipment- Part-1: Safety Requirement	Ball Pressure Test Clause 5.4.1.10.3	IEC 62368-1:2018
		Clearances Clause 5.4.2	IEC 62368-1:2018
		Creepage Distances Clause 5.4.3	IEC 62368-1:2018
		Antenna Terminal Insulation Clause 5.4.5	IEC 62368-1:2018
		Insulation of Internal wire as a part of a Supplementary Safeguard Clause 5.4.6	IEC 62368-1:2018
		Tests for Semiconductor Components and for Cemented Joints Clause 5.4.7	IEC 62368-1:2018
		Human Conditioning Clause 5.4.8	IEC 62368-1:2018
		Electric Strength Test Clause 5.4.9	IEC 62368-1:2018


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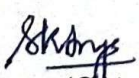
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Part-1: Safety Requirement	Safeguards against Transient Voltages from External Circuits Clause 5.4.10	IEC 62368-1:2018
		Impulse Test Clause 5.4.10.2.2	IEC 62368-1:2018
		Steady State Test Clause 5.4.10.2.3	IEC 62368-1:2018
		Separation between External Circuits and Earth Clause 5.4.11	IEC 62368-1:2018
		Capacitor Discharge Clause 5.5.2.2	IEC 62368-1:2018
		Resistance of the Protective Bonding System Clause 5.6.6	IEC 62368-1:2018
		Prospective Tough Voltage, Touch Current and Protective Conductor Current Clause 5.7	IEC 62368-1:2018


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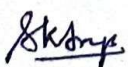
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Audio/Video, Information and Communication Technology Equipment-Part-1: Safety Requirement	Power Source Circuit Clause 6.2.2	IEC 62368-1:2018
		Classification of Potential Ignition Sources Clause 6.2.3	IEC 62368-1:2018
		Safeguards against Fire under Normal Operating Conditions and Abnormal Operating Conditions Clause 6.3	IEC 62368-1:2018
		Safeguards against Fire under Single Fault Conditions Clause 6.4	IEC 62368-1:2018
		Separation of Combustible Materials from a PIS Clause 6.4.7	IEC 62368-1:2018
		Equipment having an Electromechanical Device for Destruction of Media Clause 8.5.4.3	IEC 62368-1:2018
		Static Stability Clause 8.6.2	IEC 62368-1:2018


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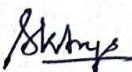
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment- Part-1: Safety Requirement	Glass Slide Test Clause 8.6.4	IEC 62368-1:2018
		Horizontal Force test and Compliance Criteria Clause 8.6.5	IEC 62368-1:2018
		Equipment mounted to a Wall, Ceiling Clause 8.7	IEC 62368-1:2018
		Handle Strength Clause 8.8	IEC 62368-1:2018
		Cart, Stand or Carrier Loading Test and Compliance Criteria Clause 8.10.3	IEC 62368-1:2018
		Mechanical Stability Clause 8.10.5	IEC 62368-1:2018
		Wheels or Castors Attachment Requirements Clause 8.9	IEC 62368-1:2018
		Thermoplastic Temperature Stability Clause 8.10.6	IEC 62368-1:2018


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Part-1: Safety Requirement	Touch Temperature Limits Clause 9.3	IEC 62368-1:2018
		Input Test Annex B.2.5	IEC 62368-1:2018
		Stimulated Abnormal Operating Conditions Annex B.3	IEC 62368-1:2018
		Stimulated Single Fault Conditions Annex B.4	IEC 62368-1:2018
		Test for the Permanence of Markings Annex F.3.9	IEC 62368-1:2018
		Main Supply Connection Annex G.7	IEC 62368-1:2018
		Tests on Coated Printed Boards Annex G.13.6	IEC 62368-1:2018
		Criteria for telephone Ringing Signals Annex H	IEC 62368-1:2018
		Limited Power Source Annex Q.1	IEC 62368-1:2018


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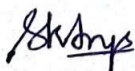
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Audio/Video, Information and Communication Technology Equipment-Part-1: Safety Requirement	Steady Force Test Annex T.2	IEC 62368-1:2018
		Steady Force Test Annex T.3	IEC 62368-1:2018
		Steady Force Test,100N Annex T.4	IEC 62368-1:2018
		Steady Force Test Annex T.5	IEC 62368-1:2018
		Enclosure Impact Test Annex T.6	IEC 62368-1:2018
		Drop Test Annex T.7	IEC 62368-1:2018
		Stress Relief Test Annex T.8	IEC 62368-1:2018
		Glass Impact Test Annex T.9	IEC 62368-1:2018


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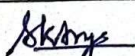
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
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
3.	Equipment's Operating in 2.4 GHz and 5 GHz Band	Receiver Spurious Emission (Conducted) Clause 4.3.1.11 or 4.3.2.10	ETSI EN 300 328 V2.2.2
		Transmitter Unwanted Emission in the Spurious Domain (Conducted) Clause 4.3.1.10 or 4.3.2.9	ETSI EN 300 328 V2.2.2
		Receiver Spurious Emission (Conducted) Clause 4.2.5	ETSI EN 301 893 V2.1.1
		Transmitter Unwanted Emission outside the 5GHz RLAN Bands (Conducted) Clause 4.2.4.1	ETSI EN 301 893 V2.1.1
		Receiver Spurious Emission (Conducted) Clause 4.2.5	ETSI EN 302 502 V2.1.1
		Transmitter unwanted (Conducted) Clause 4.2.3	ETSI EN 302 502 V2.1.1
		Band Edge Clause 15.407(b)	FCC CFR 47 Part 15 Subpart C
		Carrier Frequency Separation Clause 15.247(a)	FCC CFR 47 Part 15 Subpart C
		Emission Bandwidth Clause 15.247(a)	FCC CFR 47 Part 15 Subpart C


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Equipment's Operating in 2.4 GHz and 5 GHz Band	Emissions in Restricted Bands/Spurious Emission (Conducted) Clause 15.247(d)	FCC CFR 47 Part 15 Subpart C
		Hopping Frequencies Clause 15.247(a),(g)	FCC CFR 47 Part 15 Subpart C
		Peak Output Power Clause 15.247(b),15.247(c),15.247(a)	FCC CFR 47 Part 15 Subpart C
		Peak Power Spectral Density Clause 15.247(e)	FCC CFR 47 Part 15 Subpart C
		Time of Channel Occupancy Clause 15.247(f)	FCC CFR 47 Part 15 Subpart C
		User information and MPE Calculations Clause 15.247(c),15.247 (h) & (i)	FCC CFR 47 Part 15 Subpart C
		Band Edge Clause 15.407(b)	FCC CFR 47 Part 15 Subpart E
		DFS Channel Availability Check at the beginning and at the end of the Radar Bursts. Clause 15.407(h)	FCC CFR 47 Part 15 Subpart E


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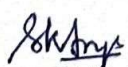
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Equipment's Operating in 2.4 GHz and 5 GHz Band	DFS in Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non Occupancy Period Clause 15.407(h)	FCC CFR 47 Part 15 Subpart E
		DFS Statistical Performance Check Clause 15.407(h)	FCC CFR 47 Part 15 Subpart E
		DFS UNII Detection Bandwidth Clause 15.407(h)	FCC CFR 47 Part 15 Subpart E
		Emissions in the Restricted Bands/Spurious Emission (Conducted) Clause. 15.407(b)	FCC CFR 47 Part 15 Subpart E
		Frequency Error Clause 15.407(g)	FCC CFR 47 Part 15 Subpart E
		MPE Calculations Clause 15.407(f)	FCC CFR 47 Part 15 Subpart E
		Occupied Channel Bandwidth Clause 15.407(e)	FCC CFR 47 Part 15 Subpart E


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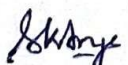
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	Equipment's Operating in 2.4 GHz and 5 GHz Band	Power Spectral Density Clause 15.407(a)	FCC CFR 47 Part 15 Subpart E	
		RF Output Power Clause 15.407(a)	FCC CFR 47 Part 15 Subpart C	
		User Information Clause 15.407(c)	FCC CFR 47 Part 15 Subpart C	
		Antenna Requirement Clause 15.203	FCC CFR 47 Part 15 Subpart C	
4.	HF Radio	Parameters linked with Product Variant	Blocking and Spurious Response Rejection ETSI EN 300 433 V2.1.1 Clause 8.5	TEC ER No. TEC54372108
		Receiver Adjacent Channel Selectivity ETSI EN 300 433 V2.1.1 Clause 8.2	TEC ER No. TEC54372108	


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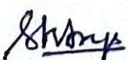
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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	HF Radio	Parameters linked with Product Variant	
		Receiver Inter-Modulation Response Rejection ETSI EN 300 433 V2.1.1 Clause 8.3	TEC ER No. TEC54372108
		Receiver Maximum Useable Sensitivity ETSI EN 300 433 V2.1.1 Clause 8.1	TEC ER No. TEC54372108
		Receiver Spurious Radiations (Conducted) ETSI EN 300 433 V2.1.1 Clause 8.4	TEC ER No. TEC54372108
		Transmitter Adjacent and Alternate Channel Power ETSI EN 300 433 V2.1.1 Clause 7.4	TEC ER No. TEC54372108


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Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	HF Radio	Parameters link with Product Variant	
		Transmitter Frequency Error ETSI EN 300 433 V2.1.1 Clause 7.1	TEC ER No. TEC54372108
		Transmitter Maximum Permissible Frequency Deviation ETSI EN 300 433 V2.1.1 Clause 7.3	TEC ER No. TEC54372108
		Transmitter Power (Conducted) ETSI EN 300 433 V2.1.1 Clause 7.2	TEC ER No. TEC54372108
		Transmitter Transient Frequency Behaviour ETSI EN 300 433 V2.1.1 Clause 7.6	TEC ER No. TEC54372108


Director (CA), TEC


AD (CA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: **M/s Nemko India (Test Lab) Private Limited, Faridabad**
Plot No. 193, Sector-68, IMT Faridabad-121004.

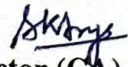
Certificate Number: **TEC/MRA/CAB/IND-D/19-II**


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Validity: **30/09/2022 to 29/09/2025**

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	HF Radio	Parameters link with Product Variant	
		Transmitter Unwanted Emission in the Spurious Domain ETSI EN 300 433 V2.1.1 Clause 7.5	TEC ER No. TEC54372108
		Adjacent Channel selectivity ETSI EN 300 783 V2.1.1 Clause 6.2	TEC ER No. TEC54372108
		Conducted RF Immunity ETSI EN 300 783 V2.1.1 Clause 6.3	TEC ER No. TEC54372108
		Maximum Transmitter Power ETSI EN 300 783 V2.1.1 Clause 5.1	TEC ER No. TEC54372108
		Maximum Usable Sensitivity ETSI EN 300 783 V2.1.1 Clause 6.1	TEC ER No. TEC54372108


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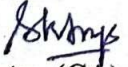
Certificate Number: **TEC/MRA/CAB/IND-D/19-II**

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Validity: **30/09/2022 to 29/09/2025**

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	HF Radio	Parameters link with Product Variant	Spurious Radiations (Conducted) ETSI EN 300 783 V2.1.1 Clause 5.3	TEC ER No. TEC54372108
			Unwanted Emissions in the Spurious Domain (Conducted) ETSI EN 300 783 V2.1.1 Clause 5.2	TEC ER No. TEC54372108
5.	Mobile Radio Trunking System	Parameters link with Product Variant	Receiver Adjacent Channel Selectivity ETSI EN 300 086 V2.1.2 Clause 8.4	TEC ER No. TEC56782108
			Receiver Blocking or Desensitization ETSI EN 300 086 V2.1.2 Clause 8.7	TEC ER No. TEC56782108


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SCOPE OF DESIGNATION
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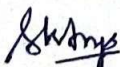
Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	Mobile Radio Trunking System	Parameters link with Product Variant	Receiver Co-Channel Rejection ETSI EN 300 086 V2.1.2 Clause 8.3	TEC ER No. TEC56782108
		Receiver Desensitization (with Simultaneous Transmission and Reception) ETSI EN 300 086 V2.1.2 Clause 9.1	TEC ER No. TEC56782108	
		Receiver Inter-Modulation Response Rejection ETSI EN 300 086 V2.1.2 Clause 8.6	TEC ER No. TEC56782108	
		Receiver Maximum Useable Sensitivity ETSI EN 300 086 V2.1.2 Clause 8.1	TEC ER No. TEC56782108	


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Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile Radio Trunking System	Parameters link with Product Variant	
		Receiver Spurious Radiations (Conducted) ETSI EN 300 086 V2.1.2 Clause 8.8	TEC ER No. TEC56782108
		Receiver Spurious Response Rejection (with Simultaneous Transmission and Reception) ETSI EN 300 086 V2.1.2 Clause 9.2	TEC ER No. TEC56782108
		Receiver Spurious Response Rejection ETSI EN 300 086 V2.1.2 Clause 8.5	TEC ER No. TEC56782108
		Transmitter Adjacent and Alternate Channel Power ETSI EN 300 086 V2.1.2 Clause 7.5	TEC ER No. TEC56782108
		Transmitter Frequency Deviation ETSI EN 300 086 V2.1.2 Clause 7.4	TEC ER No. TEC56782108


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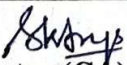
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
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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Mobile Radio Trunking System	Parameters link with Product Variant	
		Transmitter Frequency Error ETSI EN 300 086 V2.1.2 Clause 7.1	TEC ER No. TEC56782108
		Transmitter Intermodulation Attenuation ETSI EN 300 086 V2.1.2 Clause 7.7	TEC ER No. TEC56782108
		Transmitter Power (Conducted) ETSI EN 300 086 V2.1.2 Clause 7.2	TEC ER No. TEC56782108
		Transmitter Unwanted Emissions in the Spurious Domain (Conducted) ETSI EN 300 086 V2.1.2 Clause 7.6	TEC ER No. TEC56782108
		Receiver Adjacent Channel Selectivity ETSI EN 300 219 V2.1.1 Clause 9.5	TEC ER No. TEC56782108


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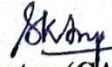
Certificate Number: TEC/MRA/CAB/IND-D/19-II

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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile Radio Trunking System	Parameters link with Product Variant	Receiver Blocking or Desensitization ETSI EN 300 219 V2.1.1 Clause 9.8	TEC ER No. TEC56782108
		Receiver co-Channel Rejection ETSI EN 300 219 V2.1.1 Clause 9.4	TEC ER No. TEC56782108	
		Receiver Desensitization (with Simultaneous Transmission and Reception) ETSI EN 300 219 V2.1.1 Clause 10.1	TEC ER No. TEC56782108	
		Receiver Inter-Modulation Response Rejection ETSI EN 300 219 V2.1.1 Clause 9.7	TEC ER No. TEC56782108	


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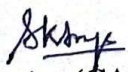
Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Mobile Radio Trunking System	Parameters link with Product Variant	
		Receiver Maximum Useable Sensitivity, (responses) ETSI EN 300 219 V2.1.1 Clause 9.2	TEC ER No. TEC56782108
		Receiver Spurious Radiations (Conducted) ETSI EN 300 219 V2.1.1 Clause 9.9	TEC ER No. TEC56782108
		Receiver Spurious Response Rejection (with Simultaneous Transmission and Reception) ETSI EN 300 219 V2.1.1 Clause 10.2	TEC ER No. TEC56782108
		Receiver Spurious Response Rejection ETSI EN 300 219 V2.1.1 Clause 9.6	TEC ER No. TEC56782108


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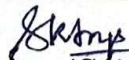
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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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Mobile Radio Trunking System	Parameters link with Product Variant	Transmitter Adjacent and Alternate Channel Power ETSI EN 300 219 V2.1.1 Clause 8.4	TEC ER No. TEC56782108
		Transmitter Attack Time ETSI EN 300 219 V2.1.1 Clause 8.7	TEC ER No. TEC56782108
		Transmitter Carrier Power, Conducted ETSI EN 300 219 V2.1.1 Clause 8.2	TEC ER No. TEC56782108
		Transmitter Frequency Error ETSI EN 300 219 V2.1.1 Clause 8.1	TEC ER No. TEC56782108
		Transmitter Intermodulation Attenuation ETSI EN 300 219 V2.1.1 Clause 8.6	TEC ER No. TEC56782108
		Transmitter Release Time ETSI EN 300 219 V2.1.1 Clause 8.8	TEC ER No. TEC56782108


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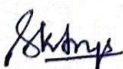
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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile Radio Trunking System	Parameters link with Product Variant	
		Transmitter Spurious Emissions (Conducted) ETSI EN 300 219 V2.1.1 Clause 8.5	TEC ER No. TEC56782108
		Transmitter Transient Frequency Behaviour ETSI EN 300 219 V2.1.1 Clause 8.9	TEC ER No. TEC56782108
		Receiver Adjacent Channel Selectivity ETSI EN 301 166 V2.1.1 Clause 8.5	TEC ER No. TEC56782108
		Receiver Blocking or Desensitization ETSI EN 301 166 V2.1.1 Clause 8.8	TEC ER No. TEC56782108
		Receiver Co-Channel Rejection ETSI EN 301 166 V2.1.1 Clause 8.10	TEC ER No. TEC56782108


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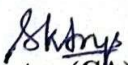
Certificate Number: **TEC/MRA/CAB/IND-D/19-II**

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Validity: **30/09/2022 to 29/09/2025**

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

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile Radio Trunking System	Parameters link with Product Variant	
		Receiver Desensitization (with Simultaneous Transmission and Reception) ETSI EN 301 166 V2.1.1 Clause 9.1	TEC ER No. TEC56782108
		Receiver Inter-Modulation Response Rejection ETSI EN 301 166 V2.1.1 Clause 8.7	TEC ER No. TEC56782108
		Receiver Maximum Useable Sensitivity (Analogue, Conducted) ETSI EN 301 166 V2.1.1 Clause 8.1	TEC ER No. TEC56782108
		Receiver Maximum Useable Sensitivity (Digital, Conducted) ETSI EN 301 166 V2.1.1 Clause 8.3	TEC ER No. TEC56782108


Director (CA), TEC


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Laboratory Name: M/s Nemko India (Test Lab) Private Limited, Faridabad
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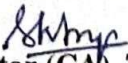
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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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	Mobile Radio Trunking System	Parameters link with Product Variant	Receiver Spurious Radiations (Conducted) ETSI EN 301 166 V2.1.1 Clause 8.9	TEC ER No. TEC56782108
			Receiver Spurious Response Rejection (with Simultaneous Transmission and Reception) ETSI EN 301 166 V2.1.1 Clause 9.2	TEC ER No. TEC56782108
			Receiver Spurious Response Rejection ETSI EN 301 166 V2.1.1 Clause. 8.6	TEC ER No. TEC56782108
			Transmitter Adjacent and Alternate Channel Power ETSI EN 301 166 V2.1.1 Clause 7.3	TEC ER No. TEC56782108
			Transmitter Frequency Error ETSI EN 301 166 V2.1.1 Clause 7.7	TEC ER No. TEC56782108


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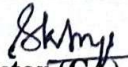
Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Mobile Radio Trunking System	Parameters link with Product Variant	
		Transmitter Intermodulation Attenuation ETSI EN 301 166 V2.1.1 Clause 7.5	TEC ER No. TEC56782108
		Transmitter Maximum Power (PX) Conducted ETSI EN 301 166 V2.1.1 Clause 7.1	TEC ER No. TEC56782108
		Transmitter Time Out Timer ETSI EN 301 166 V2.1.1 Clause 7.8	TEC ER No. TEC56782108
		Transmitter Transient Power ETSI EN 301 166 V2.1.1 Clause 7.6	TEC ER No. TEC56782108
		Transmitter Unwanted Emissions in the Spurious Domain (Conducted) ETSI EN 301 166 V2.1.1 Clause 7.4	TEC ER No. TEC56782108


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Plot No. 193, Sector-68, IMT Faridabad-121004.


Certificate Number: **TEC/MRA/CAB/IND-D/19-II**

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Validity: **30/09/2022 to 29/09/2025**

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	Mobile Radio Trunking System	Parameters link with Product Variant	
		Adjacent and Alternate Channel Power ETSI EN 301 113 V2.1.1 Clause 7.4	TEC ER No. TEC56782108
		Adjacent Channel Selectivity ETSI EN 301 113 V2.1.1 Clause 8.6	TEC ER No. TEC56782108
		Blocking or Desensitization ETSI EN 301 113 V2.1.1 Clause 8.9	TEC ER No. TEC56782108
		Co-Channel Rejection ETSI EN 301 113 V2.1.1 Clause 8.5	TEC ER No. TEC56782108
		Error Behaviour at High Inputs Levels ETSI EN 301 113 V2.1.1 Clause 8.4	TEC ER No. TEC56782108
		Frequency Error ETSI EN 301 113 V2.1.1 Clause 7.1	TEC ER No. TEC56782108


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Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	Mobile Radio Trunking System	Parameters link with Product Variant	
		Intermodulation Attenuation ETSI EN 301 113 V2.1.1 Clause 7.6	TEC ER No. TEC56782108
		Intermodulation Response Rejection ETSI EN 301 113 V2.1.1 Clause 8.8	TEC ER No. TEC56782108
		Level of the Wanted Signal for the Degradation Measurements ETSI EN 301 113 V2.1.1 Clause 8.3	TEC ER No. TEC56782108
		Maximum Usable Sensitivity (Conducted) ETSI EN 301 113 V2.1.1 Clause 8.1	TEC ER No. TEC56782108


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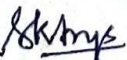
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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile Radio Trunking System	Parameters link with Product Variant	Receiver Desensitization (with Simultaneous Transmission and Reception) ETSI EN 301 113 V2.1.1 Clause 9.1	TEC ER No. TEC56782108
		Receiver Spurious Radiations (Conducted) ETSI EN 301 113 V2.1.1 Clause 8.10	TEC ER No. TEC56782108	
		Receiver Spurious Response Rejection (with Simultaneous Transmission and Reception) ETSI EN 301 113 V2.1.1 Clause 9.2	TEC ER No. TEC56782108	
		Spurious Response Rejection ETSI EN 301 113 V2.1.1 Clause 8.7	TEC ER No. TEC56782108	


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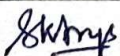
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
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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification	
	Mobile Radio Trunking System	Parameters link with Product Variant	Transient Behaviour of the Transmitter ETSI EN 301 113 V2.1.1 Clause 7.9	TEC ER No. TEC56782108
		Transmitter Attack Time ETSI EN 301 113 V2.1.1 Cl. 7.7	TEC ER No. TEC56782108	
		Transmitter Power (Conducted) ETSI EN 301 113 V2.1.1 Clause 7.2	TEC ER No. TEC56782108	
		Transmitter Release Time ETSI EN 301 113 V2.1.1 Clause 7.8	TEC ER No. TEC56782108	
		Unwanted Emissions in the Spurious Domain (Conducted) ETSI EN 301 113 V2.1.1 Clause 7.5	TEC ER No. TEC56782108	


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SCOPE OF DESIGNATION
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Plot No. 193, Sector-68, IMT Faridabad-121004.


Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
6.	PTP PMP Microwave Fixed Radio Systems	Parameters link with Product Variant	Automatic Transmitter Power Control ETSI EN 302 326-2 V2.1.1 Clause. 5.3.6.2	TEC ER No. TEC56422005
		BER as a Function of Receiver Input Signal Level ETSI EN 302 326-2 V2.1.1 Clause. 5.4.3	TEC ER No. TEC56422005	
		Receiver Blocking (CW Spurious Interference Sensitivity) ETSI EN 302 326-2 V2.1.1 Clause. 5.4.4.3	TEC ER No. TEC56422005	
		Receiver Co-Channel Interference Sensitivity ETSI EN 302 326-2 V2.1.1 Clause. 5.4.4.1	TEC ER No. TEC56422005	


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Laboratory Name: M/s Nemko India (Test Lab) Private Limited, Faridabad
Plot No. 193, Sector-68, IMT Faridabad-121004.

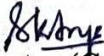
Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	PTP PMP Microwave Fixed Radio Systems	Parameters link with Product Variant	Receiver First Adjacent Channel Interference Sensitivity ETSI EN 302 326-2 V2.1.1 Clause. 5.4.4.2
		Receiver Radio-Frequency Intermodulation and Receiver Second Adjacent Channel Interference Sensitivity ETSI EN 302 326-2 V2.1.1 Clause. 5.4.4.4	TEC ER No. TEC56422005


Director (CA), TEC


AD (CA), TEC

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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Nemko India (Test Lab) Private Limited, Faridabad
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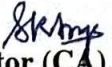
Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	PTP PMP Microwave Fixed Radio Systems	Parameters link with Product Variant	Receiver Unwanted Emissions in the Spurious Domain (Conducted) ETSI EN 302 326-2 V2.1.1 Clause. 5.4.2	TEC ER No. TEC56422005
		Remote Transmitter Power Control	ETSI EN 302 326-2 V2.1.1 Clause. 5.3.6.3	TEC ER No. TEC56422005
		Transmitter Discrete (CW) Components exceeding the Transmitter Radio Frequency Spectrum Mask Limits	ETSI EN 302 326-2 V2.1.1 Clause. 5.3.4.2	TEC ER No. TEC56422005


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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Nemko India (Test Lab) Private Limited, Faridabad
Plot No. 193, Sector-68, IMT Faridabad-121004.

Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	PTP PMP Microwave Fixed Radio Systems	Parameters link with Product Variant	Transmitter Dynamic Change of Modulation Order ETSI EN 302 326-2 V2.1.1 Clause. 5.3.8	TEC ER No. TEC56422005
		Transmitter Radio Frequency Spectrum Mask ETSI EN 302 326-2 V2.1.1 Clause. 5.3.4.1	TEC ER No. TEC56422005	
		Transmitter Radio Frequency Tolerance ETSI EN 302 326-2 V2.1.1 Clause. 5.3.3	TEC ER No. TEC56422005	
		Transmitter Remote Frequency Control ETSI EN 302 326-2 V2.1.1 Clause. 5.3.7	TEC ER No. TEC56422005	


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(ANNEXURE)

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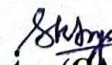
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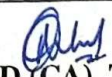
Page 35 of 56

Validity: **30/09/2022 to 29/09/2025**

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	PTP PMP Microwave Fixed Radio Systems	Parameters link with Product Variant	Transmitter Unwanted Emissions in the Spurious domain (Conducted) ETSI EN 302 326-2 V2.1.1 Clause. 5.3.5	TEC ER No. TEC56422005
			Receiver Dynamic Change ETSI EN 302 326-2 V2.1.1 Clause. 5.4.3.4	TEC ER No. TEC56422005
			Transmitter Maximum Power and EIRP ETSI EN 302 326-2 V2.1.1 Clause. 5.3.2.2	TEC ER No. TEC56422005
			Transmitter Output Power Environmental Variation ETSI EN 302 326-2 V2.1.1 Clause 5.3.2.3	TEC ER No. TEC56422005


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Laboratory Name: M/s Nemko India (Test Lab) Private Limited, Faridabad
Plot No. 193, Sector-68, IMT Faridabad-121004.


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	PTP PMP Microwave Fixed Radio Systems	Parameters link with Product Variant	
		Adjacent Channel Interference Sensitivity ETSI EN 302 217-2 V2.1.1 Clause 4.3.3.2.2	TEC ER No. TEC56422005
		Automatic Transmit Power Control ETSI EN 302 217-2 V2.1.1 Clause 4.2.2.1.1	TEC ER No. TEC56422005
		BER as Function of Receiver Input Signal Level RSL ETSI EN 302 217-2 V2.1.1 Clause 4.3.2	TEC ER No. TEC56422005
		Co-Channel Interference Sensitivity ETSI EN 302 217-2 V2.1.1 Clause 4.3.3.2.2	TEC ER No. TEC56422005


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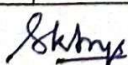
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
Page 37 of 56

Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	PTP PMP Microwave Fixed Radio Systems	Parameters link with Product Variant	Combined TX Power Output and EIRP Limits ETSI EN 302 217-2 V2.1.1 Clause 4.2.1.2	TEC ER No. TEC56422005
			CW Spurious Interference (Blocking and Spurious Response Rejection) ETSI EN 302 217-2 V2.1.1 Clause 4.3.3.3	TEC ER No. TEC56422005
			Discrete CW Components Exceeding the Spectrum Mask Limits ETSI EN 302 217-2 V2.1.1 Clause 4.2.4	TEC ER No. TEC56422005
			Dynamic Change of Modulation Order ETSI EN 302 217-2 V2.1.1 Clause 4.2.6	TEC ER No. TEC56422005


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Plot No. 193, Sector-68, IMT Faridabad-121004.

Certificate Number: **TEC/MRA/CAB/IND-D/19-II**


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Validity: **30/09/2022 to 29/09/2025**

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

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	PTP PMP Microwave Fixed Radio Systems	Parameters link with Product Variant	Emission Limitations outside the Allocated Band (Conducted) ETSI EN 302 217-2 V2.1.1 Clause. 4.2.8	TEC ER No. TEC56422005
			Maximum Power and EIRP ETSI EN 302 217-2 V2.1.1 Clause 4.2.1.1	TEC ER No. TEC56422005
			Output Power Environmental Variation ETSI EN 302 217-2 V2.1.1 Clause 4.2.1.3	TEC ER No. TEC56422005
			Radio Frequency Spectrum Mask ETSI EN 302 217-2 V2.1.1 Clause 4.2.3	TEC ER No. TEC56422005


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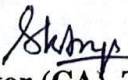
Certificate Number: TEC/MRA/CAB/IND-D/19-II

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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	PTP PMP Microwave Fixed Radio Systems	Parameters link with Product Variant	
		Radio Frequency Tolerance ETSI EN 302 217-2 V2.1.1 Clause 4.2.7	TEC ER No. TEC56422005
		Remote Frequency Control ETSI EN 302 217-2 V2.1.1 Clause 4.2.2.2	TEC ER No. TEC56422005
		Remote Transmit Power Control ETSI EN 302 217-2 V2.1.1 Clause 4.2.2.1.2	TEC ER No. TEC56422005
		Second Adjacent Channel Interference Sensitivity ETSI EN 302 217-2 V2.1.1 Clause 4.3.3.2.3	TEC ER No. TEC56422005


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Plot No. 193, Sector-68, IMT Faridabad-121004.


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
	PTP PMP Microwave Fixed Radio Systems	Parameters link with Product Variant	Unwanted Emissions in the Spurious Domain (Conducted) Rx ETSI EN 302 217-2 V2.1.1 Clause 4.3.1 TEC ER No. TEC56422005
			Unwanted Emissions in the Spurious Domain (Conducted) ETSI EN 302 217-2 V2.1.1 Clause 4.2.5 TEC ER No. TEC56422005
7.	IoT Gateway	Interface: GSM/GPRS/EDGE	Transmitter Maximum Output Power and Burst Timing for GSM 3GPP TS 51 010-1 Clause- 13.3 or EN 301 511 (GSM) Clause- 4.2.5 TEC ER No. TEC24492108


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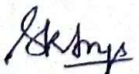
Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	IoT Gateway	Interface: GSM/GPRS/ EDGE	Transmitter Output Power for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.2 or EN 301 511 (GSM) Clause- 4.2.10	TEC ER No. TEC24492108
			Transmitter - Output RF Spectrum for GSM 3GPP TS 51 010-1 Clause- 13.4 or EN 301 511 (GSM) Clause- 4.2.6	TEC ER No. TEC24492108
			Transmitter - Output RF Spectrum for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.3 or EN 301 511 (GSM) Clause- 4.2.11	TEC ER No. TEC24492108


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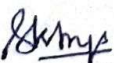
Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	IoT Gateway	Interface: GSM/GPRS/ EDGE	Spurious Emissions - MS allocated a Channel 3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 (GSM) Clause- 4.2.12	TEC ER No. TEC24492108
			Spurious Emissions - MS in Idle Mode 3GPP TS 51 010-1 Clause- 12.1.2 or EN 301 511 (GSM) Clause- 4.2.13	TEC ER No. TEC24492108
			Frequency Error and Phase Error for GSM 3GPP TS 51 010-1 Clause- 13.1 or EN 301 511 (GSM) Clause- 4.2.1	TEC ER No. TEC24492108


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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Nemko India (Test Lab) Private Limited, Faridabad
Plot No. 193, Sector-68, IMT Faridabad-121004.


Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: GSM/GPRS/EDGE	Frequency Error and Phase Error for GPRS/EDGE 3GPP TS 51 010-1 Clause- 13.16.1 or EN 301 511 (GSM) Clause- 4.2.4	TEC ER No. TEC24492108
		Reference Sensitivity Level (Speech Channels)	3GPP TS 51 010-1 Clause- 14.2.1 or EN 301 511 (GSM) Clause- 4.2.42	TEC ER No. TEC24492108
		Adjacent Channel Rejection - Speech Channels	3GPP TS 51 010-1 Clause- 14.5.1 or EN 301 511 (GSM) Clause- 4.2.38	TEC ER No. TEC24492108


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Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	IoT Gateway	Interface: GSM/GPRS/ EDGE	Receiver Blocking 3GPP TS 51 010-1 Clause- 14.7.1 or EN 301 511 (GSM) Clause- 4.2.20	TEC ER No. TEC24492108
		Interface: WCDMA or HSPA	Transmitter Maximum Output Power 3GPP TS 34.121-1 Clause- 5.2 OR EN 301 908-2 (UMTS) Clause- 4.2.2	TEC ER No. TEC24492108
			Spectrum Emissions Mask 3GPP TS 34.121-1 Clause- 5.9 OR EN 301 908-2 (UMTS) Clause- 4.2.3	TEC ER No. TEC24492108


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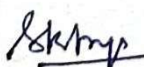
Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: WCDMA or HSPA	Transmitter Spurious Emissions 3GPP TS 34.121-1 Clause- 5.11 OR EN 301 908-2(UMTS) Clause- 4.2.4	TEC ER No. TEC24492108
		Receiver Spurious Emission 3GPP TS 34.121-1 Clause- 6.8 OR EN 301 908-2 (UMTS) Clause- 4.2.10	TEC ER No. TEC24492108	
		Transmitter Minimum Output Power 3GPP TS 34.121-1 Clause-5.4.3 OR EN 301 908-2 (UMTS) Clause- 4.2.5	TEC ER No. TEC24492108	


Director (CA), TEC


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Certificate Number: **TEC/MRA/CAB/IND-D/19-II**

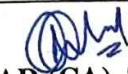
Page **46** of **56**

Validity: **30/09/2022 to 29/09/2025**

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

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: WCDMA or HSPA	Receiver Reference Sensitivity level 3GPP TS 34.121-1 Clause- 6.2 OR EN 301 908-2 (UMTS) Clause- 4.2.13	TEC ER No. TEC24492108
			Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 34.121-1 Clause 6.4 OR EN 301 908-2 (UMTS) Clause- 4.2.6	TEC ER No. TEC24492108
			Receiver In-band Blocking 3GPP TS 34.121-1 Clause- 6.5.2.1 OR EN 301 908-2 (UMTS) Clause- 4.2.7	TEC ER No. TEC24492108


Director (CA), TEC


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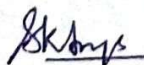
Certificate Number: TEC/MRA/CAB/IND-D/19-II

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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	IoT Gateway	Interface: LTE or LTE-A	Maximum Output Power 3GPP TS 36.521-1 Clause- 6.2.2 OR EN 301 908-13 (LTE) Clause- 4.2.2	TEC ER No. TEC24492108
			Spectrum Emissions Mask 3GPP TS 36.521-1 Clause- 6.6.2.1 OR EN 301 908-13 (LTE) Clause- 4.2.3	TEC ER No. TEC24492108
			Spurious Emissions 3GPP TS 36.521-1 Clauses- 6.6.3.1, 6.6.3.2, 6.6.3.3 OR EN 301 908-13 (LTE) Clause- 4.2.4	TEC ER No. TEC24492108


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	IoT Gateway	Interface: LTE or LTE-A	Receiver Spurious Emission 3GPP TS 36.521-1 Clause- 7.9 OR EN 301 908-13 (LTE) Clause- 4.2.10	TEC ER No. TEC24492108
			Receiver Reference Sensitivity level 3GPP TS 36.521-1 Clause- 7.3 OR EN 301 908-13 (LTE) Clause- 4.2.12	TEC ER No. TEC24492108
			Receiver Adjacent Channel Selectivity (ACS) 3GPP TS 36.521-1 Clause- 7.5 OR EN 301 908-13 (LTE) Clause- 4.2.6	TEC ER No. TEC24492108


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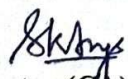
Page 49 of 56

Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
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IoT Gateway	Interface: LTE or LTE-A	Receiver In-Band Blocking 3GPP TS 36.521-1 Clause- 7.6.1 OR EN 301 908-13 (LTE) Clause- 4.2.7	TEC ER No. TEC24492108	
		Interface: LPWAN- LoRA/ LPWAN- SigFox	Operating Frequency ETSI EN 300 220-2 V3.2.1 Clause 4.2.1	TEC ER No. TEC24492108
			Unwanted Emissions in the Spurious Domain (Conducted) ETSI EN 300 220-2 V3.2.1 Clause 4.2.2	TEC ER No. TEC24492108
			TX Effective Radiated Power ETSI EN 300 220-2 V3.2.1 Clause- 4.3.1	TEC ER No. TEC24492108


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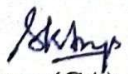
Page 50 of 56

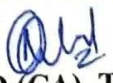
Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification
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IoT Gateway	Interface: LPWAN- LoRA/ LPWAN- SigFox	TX Maximum e. r. p. Spectral Density ETSI EN 300 220-2 V3.2.1 Clause- 4.3.2	TEC ER No. TEC24492108
		TX Duty Cycle ETSI EN 300 220-2 V3.2.1 Clause- 4.3.3	TEC ER No. TEC24492108
		TX Occupied Bandwidth ETSI EN 300 220-2 V3.2.1 Clause- 4.3.4	TEC ER No. TEC24492108
		TX out of Band Emissions ETSI EN 300 220-2 V3.2.1 Clause- 4.3.5	TEC ER No. TEC24492108
		TX Transient ETSI EN 300 220-2 V3.2.1 Clause- 4.3.6	TEC ER No. TEC24492108


Director (CA), TEC


AD (CA), TEC

*The validity of Certificate is up to 29/09/2025 or the continued validity of NABL Accreditation, whichever is earlier.

SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Nemko India (Test Lab) Private Limited, Faridabad
Plot No. 193, Sector-68, IMT Faridabad-121004.


Certificate Number: TEC/MRA/CAB/IND-D/19-II

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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	IoT Gateway	Interface: LPWAN- LoRA/ LPWAN- SigFox	TX Adjacent Channel Power ETSI EN 300 220-2 V3.2.1 Clause- 4.3.7	TEC ER No. TEC24492108
			TX Behaviour Under Low Voltage Conditions ETSI EN 300 220-2 V3.2.1 Clause- 4.3.8	TEC ER No. TEC24492108
			TX Adaptive Power Control ETSI EN 300 220-2 V3.2.1 Clause- 4.3.9	TEC ER No. TEC24492108
			TX FHSS ETSI EN 300 220-2 V3.2.1 Clause- 4.3.10	TEC ER No. TEC24492108


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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Nemko India (Test Lab) Private Limited, Faridabad
Plot No. 193, Sector-68, IMT Faridabad-121004.

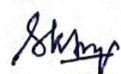
Certificate Number: TEC/MRA/CAB/IND-D/19-II

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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: LPWAN- LoRA/ LPWAN- SigFox	RX Sensitivity ETSI EN 300 220-2 V3.2.1 Clause- 4.4.1	TEC ER No. TEC24492108
			RX Blocking ETSI EN 300 220-2 V3.2.1 Clause- 4.4.2	TEC ER No. TEC24492108
			Clear Channel Assessment threshold ETSI EN 300 220-2 V3.2.1 Clause- 4.5.2	TEC ER No. TEC24492108
			Polite Spectrum Access Timing Parameters ETSI EN 300 220-2 V3.2.1 Clause- 4.5.3	TEC ER No. TEC24492108
			TX Short Term Behavior ETSI EN 300 220-2 V3.2.1 Clause- 4.3.11	TEC ER No. TEC24492108


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Plot No. 193, Sector-68, IMT Faridabad-121004.


Certificate Number: TEC/MRA/CAB/IND-D/19-II


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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	IoT Gateway	Interface: LPWAN- LoRA/ LPWAN- SigFox	Adaptive Frequency Agility ETSI EN 300 220-2 V3.2.1 Clause- 4.5.4	TEC ER No. TEC24492108
		Interface: NFC	Permitted Range of Operating Frequencies ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.1	TEC ER No. TEC24492108
			Operating Frequency Ranges ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.2	TEC ER No. TEC24492108
			Modulation Bandwidth ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.3	TEC ER No. TEC24492108


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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Nemko India (Test Lab) Private Limited, Faridabad
Plot No. 193, Sector-68, IMT Faridabad-121004.

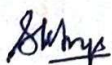
Certificate Number: TEC/MRA/CAB/IND-D/19-II

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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification	
	IoT Gateway	Interface: NFC	Transmitter H-field Requirements ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.4	TEC ER No. TEC24492108
		Transmitter RF Carrier Current ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.5	TEC ER No. TEC24492108	
		Transmitter Radiated E-Field ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.6	TEC ER No. TEC24492108	
		Transmitter Conducted Spurious Emissions ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.7	TEC ER No. TEC24492108	


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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: **M/s Nemko India (Test Lab) Private Limited, Faridabad**
Plot No. 193, Sector-68, IMT Faridabad-121004.

Certificate Number: **TEC/MRA/CAB/IND-D/19-II**

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Validity: **30/09/2022 to 29/09/2025**

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/ Specification	
	IoT Gateway	Interface: NFC	Transmitter Radiated Spurious Domain Emission Limits < 30 MHz ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.8	TEC ER No. TEC24492108
			Transmitter Frequency Stability ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.3.10	TEC ER No. TEC24492108
			Adjacent Channel Selectivity ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.3	TEC ER No. TEC24492108



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SCOPE OF DESIGNATION
(ANNEXURE)

Laboratory Name: M/s Nemko India (Test Lab) Private Limited, Faridabad
Plot No. 193, Sector-68, IMT Faridabad-121004.


Certificate Number: TEC/MRA/CAB/IND-D/19-II

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Validity: 30/09/2022 to 29/09/2025

Last Amended on: ----

Sl. No.	Telecom Equipment/Product	Test Parameter or Type of Testing	Standard/Specification
	IoT Gateway	Interface: NFC	Receiver Blocking or Desensitization ETSI EN 300 330 V2.1.1 (2017-02) Clause 4.4.4
			TEC ER No. TEC24492108


Director (CA), TEC


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

No. 1-100/2022-CA/TEC

Dated: 11.11.2022

Corrigendum

Subject: Corrigendum to CAB Designation Certificate No. TEC/MRA/CAB/IND-D/19-II dated 30.09.2022 of M/s Nemko India (Test Lab) Private Limited, Faridabad.

Reference: CAB Designation Certificate No. TEC/MRA/CAB/IND-D/19-II dated 30.09.2022

This is in reference to this office CAB Designation Certificate No. TEC/MRA/CAB/IND-D/19-II dated 30.09.2022, issued to M/s Nemko India (Test Lab) Private Limited, Faridabad.

2. The following modifications have been made to the aforesaid CAB Designation certificate:

(i) ETSI EN 301 113 may be read as **ETSI EN 300 113**.

(ii) ETSI EN 300 783 may be read as **ETSI EN 301 783**.

(iii) "Band Edge Clause 15.407(b), FCC CFR 47 Part 15 Subpart C" may be read as "**Band Edge Clause 15.247 (d), 15.205(c), 15.209(a), FCC CFR 47 Part 15 Subpart C**".

3. All other content of the CAB Designation Certificate No. TEC/MRA/CAB/IND-D/19-II dated 30.09.2022 shall remain unchanged.

4. This issues with the approval of competent authority.


11.11.2022

(Anshul Kumar Gupta)
AD (CA), TEC

To,
Ms. Kavita Dagar- Quality Manager,
M/s Nemko India (Test Lab) Private Limited, Faridabad
Plot No. 193, Sector-68, IMT Faridabad-121 004
Ph.: +91-7503657394, 9205690573

Copy to:

1. DDG (NR)/DDG(R), TEC for kind information.