



GOVERNMENT OF INDIA  
**TELECOMMUNICATION ENGINEERING CENTRE**  
(Department of Telecommunications)  
Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi-110001



## CERTIFICATE OF DESIGNATION

Certificate No. TEC/MRA/CAB/IND-D/34

Dated: 19.11.2018

This is to certify that **M/s Electronics Regional Test Laboratory (ERTL), Mumbai** has qualified the criteria for designation as CONFORMITY ASSESSMENT BODY (CAB), as described below, to carry out product testing activities specified in the Annexure-I subject to the terms and conditions specified in Annexure-II.

### CAB DESCRIPTION

Name of CAB : **M/s Electronics Regional Test Laboratory (ERTL), Mumbai**

Address of CAB : Plot No. F-7 & 8, Marol MIDC, Opp., Santacruz Electronic Export Processing Zone, Andheri East, Mumbai, Maharashtra-400047.

CAB Identification : IND034

Date of Issue : 19.11.2018

Date of Expiry : 3 Years from date of issue of this certificate or till the continued validity of Certificate issued by NABL, whichever is earlier.

  
19.11.18

D. K. Khanna  
Deputy Director General (MRA)  
For Designating Authority  
TEC



**Annexure-I** Certificate No: TEC/MRA/CAB/IND-D/34 dated 19.11.2018 issued to M/s  
**Electronics Regional Test Laboratory (ERTL), Mumbai.**

Sl. No.	1	2	3	4
	Telecom Equipment/Product	Type of Testing	Technical Regulation	Date of Designation
1.	Information Technology Equipment- Safety Requirement	All types of testing covered in Technical regulations mentioned in column 3 only for following tests:  1 Input Current (Clause 1.6.2) 2 Durability (Clause 1.7.11) 3 Access to energize parts (Clause 2.1.1.1) 4 Energy Hazard (Clause 2.1.1.5) 5 Plug Discharge (Clause 2.1.1.7) 6 Limited power source measurement test (Clause 2.5) 7 Resistance of earthing conductor (Clause 2.6.3.4) 8 Humidity conditioning (Clause 2.9.2) 9 Creepage and Clearance (Clause 2.10) 10 Steady force test (Clause 3.1.5, 3.1.9, 4.2.2, 4.2.4) 11 Stability test (Clause 4.1) 12 Impact test (Clause 4.2.5) 13 Drop test (Clause 4.2.6) 14 Stress Relief test (Clause. 4.2.7) 15 Temperature tests (Clause 4.5.2) 16 Resistance to abnormal heat (Clause 4.5.5) 17 Touch current (Clause 5.1) 18 Electric strength (Clause 5.2) 19 Abnormal operations (Clause 5.3.1) 20 Impulse Test (Clause 6.2.1) 21 Voltage Surge test (Clause 7.4.2)	IEC 60950-1:2005 A1:2009, A2:2013	19/11/2018

*Ed 2TH*  
*19/11/2018*

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

No. 1-30/2018-MRA/TEC

Dated: 13-03-2019

**Addendum**

**Subject: Designation of M/s Electronics Regional Test Laboratory (ERTL), Mumbai as Conformity Assessment Body (CAB).**


**Ref: CAB Designation Certificate No. TEC/MRA/CAB/IND-D/34 dated 19/11/2018**

It is certified that M/s Electronics Regional Test Laboratory (ERTL), Mumbai has qualified the criteria for designation as CONFORMITY ASSESSMENT BODY (CAB) to carry out product testing activities for following four additional test. Accordingly, designation is granted on provisional basis as per amendment dated 18/06/2018 issued regarding relaxation to Government testing agencies/Organisations/institutes/IITs and other government autonomous bodies.

Sl. No.	Telecom Equipment/Product	Type of Testing	Technical Regulation
1.	Environmental Testing of Telecom Equipment	1. Drop test (Test No. 10) 2. Topple test (Test No. 11) 3. Fall test (Test No. 12) 4. Rain test (Test No. 14)	QM-333 March 2010

2. This letter is issued as Addendum to Certificate No. TEC/MRA/CAB/IND-D/34 dated 19/11/2018 already issued with CAB identity IND034 for carrying out 08 number of tests mentioned in Sl. No. 2 of Annexure-I against Environmental Testing of Telecom Equipment.

3. All other scope, terms and conditions mentioned in the Certificate shall remain unchanged.

  
13/03/19

(D. K. Khanna)  
Deputy Director General (MRA)  
For Designating Authority  
TEC

To,

M/s Electronics Regional Test Laboratory (ERTL),  
Plot No. F-7 & 8, Marol MIDC,  
Opp. Santacruz Electronic Export Processing Zone,  
Andheri East, Mumbai, Maharashtra-400047.



**Annexure-II** Certificate No: TEC/MRA/CAB/IND-D/34 dated 19.11.2018 issued to M/s  
**Electronics Regional Test Laboratory (ERTL), Mumbai.**

**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 DA or MRA\* partner for testing and evaluation.
3. It shall have no interest whatsoever in any business to test any product or carry on testing in an unfair or biased manner, for which it seeking designation.
4. It shall fully indemnify DA from and against all liabilities, damages, claims, costs, and expenses incurred or sustained by DA as a result of any action taken or omitted by DA relating to the process of designation.
5. It shall comply with DA's or MRA partner's terms and conditions for designation and recognition as modified from time to time.
6. It shall be under obligation to participate in the online process prescribed by TEC for test and certification against TEC's GR/IR/ER and standards.
7. It shall have a record system which shall have a retention period of at least 5 years for documents related to the equipment testing. It shall maintain all the relevant documents including list of products submitted for testing, product-wise testing and evaluation reports. These documents shall be produced before the DA within seven days, as and when required.
8. It shall ensure the Intellectual Property Rights of the customers in the course of testing by maintaining professional ethics, secrecy and keeping all the product related information confidential.
9. It shall notify the DA in writing of occurrence of any of the following incidence within

*EF 217f*  
*19/11/2018.*

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

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No. 1-30/2018-MRA/TEC

Dated: 13.03.2019

To,

M/s Electronics Regional Test Laboratory (ERTL), Mumbai  
Plot No. F-7 & 8, Marol MIDC,  
Opp. Santacruz Electronic Export Processing Zone,  
Andheri East, Mumbai, Maharashtra-400047.

(Kind attention to Mr. P. K. Dutta, Scientist "F" & Director).

**Subject: Designation of M/s Electronics Regional Test Laboratory (ERTL), Mumbai as Conformity Assessment Body (CAB) regarding.**

**Reference:- CAB Designation Certificate No. TEC/MRA/CAB/IND-D/34 dated 19.11.2018.**

This has reference to your application to TEC for CAB designation of your lab. In this regard, it is to inform that **M/s Electronics Regional Test Laboratory (ERTL), Mumbai** has been designated as CAB of TEC for the following specifications as per certificate enclosed:-

S. No	Name of the Product/ Test Method	STANDARD
1.	EMI/EMC Testing	TEC/SD/DD/EMC-221/05/OCT-16
2.	Information Technology Equipments - Safety Requirement	IEC 60950-1:2013,2.2 edition / IS 13252:2010+A1:2013 A2:2015
3.	Environmental Testing of Telecom Equipment	QM-333 MARCH 2010

**Note:-** The scope of the certificate may be enhanced for following test(s), subject to their provision in NABL accreditation as per latest standard/ specification within 6 months from the date of issue of this certificate-

Environmental Testing of Telecom Equipment:- QM-333 MARCH 2010			
S. No.	Test Name	Test No.	Remarks
1.	Drop Test	10	NABL Accreditation required *
2.	Topple Test	11	NABL Accreditation required
3.	Fall Test	12	NABL Accreditation required
4.	Rain Test	14	NABL Accreditation required

*P. K. Dutta*  
Director (MRA)  
TEC  
13/03/19

Copy to:-

- DDG (R), TEC, New Delhi for kind information.
- DDG (WR), RTEC, Mumbai for kind information.

→ DOT

\* NABL Certificate Validity till 17.12.2021



इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी मंत्रालय  
एस.टी.क्यू.सी. निदेशालय, इलेक्ट्रॉनिक्स क्षेत्रीय परीक्षण प्रयोगशाला (पश्चिम)  
क्षेत्र # F 7/8, एम.आई.डी.सी. क्षेत्र, सीपज़ के सामने, अंधेरी (प), मुंबई-४०००९३  
Government of India

Ministry of Electronics & Information Technology,  
STQC Directorate, Electronics Regional Test Laboratory (West)  
Plot No. F 7/8, MIDC Area, Opp. SEEPZ, Andheri (E), MUMBAI - 400 093  
फ़ोन/Phone: 022-28325134; फ़ैक्स/Fax: 022-28225713;  
ईमेल/E-mail: [ertlwest@stqc.gov.in](mailto:ertlwest@stqc.gov.in); GSTIN: 27AAALE0292L1Z2



TEC Certificate No. TEC/MRA/CAB/IND-D/34 dated 19.11.2018 ; valid till 19.11.2021

## TEST CHARGES FOR TEC

### 1) EMI/EMC Tests (TEC/SD/DD/EMC-221/05/OCT-16)

Sr. No.	Test Name	Standard	Charges (INR) <sup>NOTE1</sup>			
			Single Phase		Three Phase	
			Single Port	Additional Port	Single Port	Additional Port
1.	Conducted Emission (Only on input power port)	CISPR 11:2015	8000	4000	15000	4000
2.	Electrostatic Discharge (ESD)	IEC 61000-4-2: 2008	14000	----	14000	----
3.	Electric Fast Transient (EFT)	IEC 61000-4-4: 2012	14000	4000	18000	4000
4.	RF Conducted Immunity	IEC 61000-4-6: 2013	18000	6000	24000	6000
5.	Voltage Dips & Short Interruptions (Only on Single phase AC port)	IEC 61000-4-11: 2012	15000	-----	-----	-----

Note 1: The charges are inclusive of pre-test and post-test performance check required for Immunity tests. However, if performance check involves multiple parameters/checks then additional charges may apply.

### 2) Environmental Tests (QM 333 Issue March 2010)

Sr. No.	Test Name	Charges (INR) <sup>NOTE2</sup>	
		For 1 m. <sup>3</sup> Chamber*	For 2m. <sup>3</sup> (Walk-in) Chamber
<b>Climatic Tests</b>			
1.	Cold	350 per hour	700 per hour; Min. Rs. 10,000/-
2.	Dry Heat	200 per hour	500 per hour; Min. Rs. 10,000/-
3.	Damp Heat (Cyclic)	350 per hour	700 per hour; Min. Rs. 10,000/-
4.	Temperature Cycling/Thermal Shock	500 per hour	2400 per hour
5.	Damp Heat (Steady State)	250 per hour	700 per hour; Min. Rs. 10,000/-
6.	Salt Spray	350 per hour	NA
<b>Mechanical Tests</b>			
7.	Vibration (Sine/Random Test) (max. 40 kg only inclusive of test jig/fixture; Vibration table size: 600 mm X 600mm)	3000 per hour, Min. 4000/- (upon 30 kg.) 4000 per hour, Min. 4400/- (above 30 kg.)	
8.	Bump (max. 40 kg only inclusive of test jig/fixture; Table size: 600 mm X 600 mm)	3500 for 1000 bumps; + Rs. 1000/- for each addl. 1000 bumps	

\*: Min. charges for climatic tests shall be fixed at 12 hours for test duration upto 12 hours and shall be fixed at 24 hours for test duration above 12 hours to 24 hours at the specified rate where not specified in the above table.

Note 2: Above quoted charges are for Environmental Conditioning only, i.e., no electrical or functional checks are to be carried out before, during or after test. Addl. charges will be applicable for pre-test, during test and post-test performance/functional checks or UUT's ON condition during testing. Test charges valid till 31/03/2022.

01/10/2021  
15/11/21  
HW (copy)



भारत सरकार  
इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी मंत्रालय  
एस.टी.क्यू.सी. निदेशालय, इलेक्ट्रॉनिक्स क्षेत्रीय परीक्षण प्रयोगशाला (पश्चिम)  
क्षेत्र # F 7/8, एम.आई.डी.सी. क्षेत्र, सीपज़ के सामने, अंधेरी (पू), मुंबई-४०००९३  
Government of India  
Ministry of Electronics & Information Technology,  
STQC Directorate, Electronics Regional Test Laboratory (West)  
Plot No. F 7/8, MIDC Area, Opp. SEEPZ, Andheri (E), MUMBAI - 400 093  
फोन/Phone: 022-28325134; फैक्स/Fax: 022-28225713;  
ईमेल/E-mail: ertlwest@stqc.gov.in; GSTIN: 27AAALE0292L122



TEC Certificate No. TEC/MRA/CAB/IND-D/34 dated 19.11.2018

3) Safety Test (IEC 60950-1:2005 A1:2009, A2:2013)

Sr. No.	Test Name	Standard	Equipment Name	Charges (INR)
1.	Information Technology Equipment-Safety Testing	IEC 60950-1:2005 A1:2009, A2:2013	Laptop/ Notebook	78000
			Tablet	45500
			Vdus, Video Monitors of Screen Size 32" Or Above (Up To 42"), (For Above 42")	78000 110500
			Printer, Plotter & Scanners, A4 & Legal;	45500
			A3	78000
			>A3	110500
			Wireless Keyboards	45500
			Telephone Answering Machines	45500
			Set Top Box	45500
			Automatic Data Processing Machine	78000
			For Servers	110500
			Electronics Data Projectors, Electronic Cinema Projectors, Electronics Meeting Room Projectors	85000
			Power Adaptors for IT Equipment	45500
			Mobile Phones	45500
			Cash Registers	78000
			Points of Sale Terminals	78000
			Copying Machines/Duplicators, A4 & Legal;	45500
			A3	78000
			>A3	110500
			Smart Card Readers	45500
			Mail Processing Machines/Postage Machines/Franking Machines	78000
			Passport Reader	45500
			Power Banks for Use In Portable Application	45500
			CCTV Camera / CCTV Recorders	45500
			Smart Watches	45500
			USB Drive, Bar Code Readers, Bar Code Scanner, Iris Scanner, Optical Finger Print Scanner	45500

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