



सत्यमेव जयते



ISO 9001:2015

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

## **CERTIFICATE OF DESIGNATION**

M/s National Research & Technology Consortium, Parwanoo (Himachal Pradesh) has been assessed and designated as Conformity Assessment Body (CAB)

for its facilities at

HPCED Building, Deptt. Of Industries complex Sector-1, Parwanoo-173220 (HP)  
In the field of Testing

Certificate No. TEC/MRA/CAB/IND-D/65

Issue Date: 19/11/2020

Valid Until: 18/11/2023

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 (MRA)  
For Designating Authority  
TEC

Certificate No: TEC/MRA/CAB/IND-D/65 dated 19/11/2020 issued to M/s National Research & Technology Consortium, Parwanoo, HPCED Building, Deptt. of Industries complex Sector-1, Parwanoo-173220 (HP)

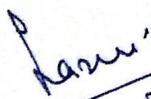
### Terms & Conditions


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.

  
19.11.2020

  
19/11/2020



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

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

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

- Designated CABs may advertise their designation status with regard to standards or parts thereof which are included in the scope of designation.
- 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.
- 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**

- DA shall suspend or withdraw the designation of a CAB if
  - Its accreditation is withdrawn.
  - it is found that the CAB is not complying with the stipulated criteria or requirements.
  - it is guilty of any offence involving fraud or dishonesty.
  - DA concludes that there is a just cause for withdrawing the designation.
- 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.
- 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.

*[Signature]*  
19.11.2020

*[Signature]* Page 2 of 2  
19/11/2020

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

**Laboratory Name:** M/s National Research & Technology Consortium,  
HPCED Building, Deptt. Of Industries complex Sector-1, Parwanoo-  
173220(HP)

**Certificate Number:** TEC/MRA/CAB/IND-D/65

**Page 1 of 7**

**Validity:** 19/11/2020 to 18/11/2023\*

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

| Sl. No. | Telecom Equipment/Product                                   | Test Parameter or Type of Testing  | Standard/ Specification               |
|---------|---|--|---------------------------------------|
| 1.      | <b>Information Technology Equipment- Safety Requirement</b> | Components-Thermal Control, Transformer Interconnecting Cable (Clause 1.5.3, 1.5.4, 1.5.5) | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Power Interface-Input Current (Clause 1.6.2)   | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Marking and Instructions (Clause 1.7)  | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Protection from Hazards –Access to energized parts (Clause 2.1.1.1)                        | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Energy Hazards (Clause 2.1.1.5)  | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Discharge of capacitors (Clause 2.1.1.7)   | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | SELV Circuits(Claude 2.2)  | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | TNV Circuits(Claude 2.3)   | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Connection of TNV circuits to other circuits (Clause 2.3.4)                                | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Test for operating voltages generated externally (Clause 2.3.5)                            | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Limited current circuits (Clause 2.4)  | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |

Director (MRA), TEC

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AD (MRA), TEC



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| Sl. No. | Telecom Equipment/Product                                   | Test Parameter or Type of Testing  | Standard/ Specification               |
|---------|---|--|---------------------------------------|
|         | <b>Information Technology Equipment- Safety Requirement</b> | Limited current circuits, Limit values (Clause 2.4.2)                                    | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Limited Power sources (Clause 2.5)   | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Provisions for Earthing and Bonding (Clause 2.6.3.4)                                     | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Over Currents and Earth Fault Protection in Primary Circuits (Clause 2.7)                | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Electrical Insulations (Clause 2.9.2)  | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Determination of working voltage (Clause 2.10.2)   | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Clearances, Creepages Distance and Distances Through Insulation (Clause 2.10.3 & 2.10.4) | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Measurements of transient levels (Clause 2.10.3.9)                                       | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Material Group and Comparative Tracking Index (Clause 2.10.4.2)                          | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Non separable thin sheet material- Annexure AA (Clause 2.10.5.8)                         | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Abrasion Resistance Test (Clause 2.10.8.4)   | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |

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**AD (MRA), TEC**

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**Validity:** 19/11/2020 to 18/11/2023\*

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| Sl. No. | Telecom Equipment/Product                                   | Test Parameter or Type of Testing   | Standard/ Specification               |
|---------|---|---|---------------------------------------|
|         | <b>Information Technology Equipment- Safety Requirement</b> | Wiring Connections and Supply (Clause 3.1)                                  | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Connections to Main supply –Cord Anchorage and Strain Relief (Clause 3.2.6) | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Protection against mechanical damage (Clause 3.2.7)                         | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Connections to Main Supply-Cord guards (Clause 3.2.8)                       | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Stability (Clause 4.1)  | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Mechanical Strength- Steady Force test (Clause 4.2.2, 4.2.3, 4.2.4)         | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Mechanical Strength- Impact test (Clause 4.2.5)                             | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Mechanical Strength- Drop test (Clause 4.2.6)                               | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Mechanical Strength- Stress Relief test (Clause 4.2.7)                      | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Wall or ceiling mounted equipment (Clause 4.2.10)                           | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Designs and Construction-handles and manual controls (Clause 4.3.2)         | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |

*19.11.2020*  
Director (MRA), TEC

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*19/11/2020*  
AD (MRA), TEC



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**Validity:** 19/11/2020 to 18/11/2023\*

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| Sl. No. | Telecom Equipment/Product                                   | Test Parameter or Type of Testing                           | Standard/ Specification               |
|---------|---|---|---------------------------------------|
|         | <b>Information Technology Equipment- Safety Requirement</b> | Direct plug-in equipment (Clause 4.3.6)                     | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Ionizing Radiation (Clause 4.3.13.2)                        | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Protection Against Hazardous Moving parts (Clause 4.4)      | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Thermal Requirements (Clause 4.5)                           | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Resistance to abnormal heat (Clause 4.5.5)                  | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Openings in Enclosures (Clause 4.6.1, 4.6.3, 4.6.4, 4.6.5)  | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Adhesive for constructional purposes (Clause 4.6.5)         | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Resistance to Fire (Glow wire Test) (Clause 4.7)            | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Resistance to Fire (Needle Flame Test) (Clause 4.7)         | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Touch Current and Protective Conductor Current (Clause 5.1) | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Electrical Strength (Clause 5.2)                            | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |

*Ramji*  
19.11.2020  
**Director (MRA), TEC**

*Ramji*  
19/11/2020  
**AD (MRA), TEC**

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| Sl. No. | Telecom Equipment/Product                                     | Test Parameter or Type of Testing  | Standard/ Specification               |
|---------|---|--|---------------------------------------|
|         | <b>Information Technology Equipment- Safety Requirement</b>   | Abnormal operating and Fault Conditions (Clause 5.3)                                     | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Stability of operation ANNEXURE K.6 (Clause 5.3.8)                                       | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Protection from Hazards in the Equipment (Clause 6.1)                                    | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Protection from Over Voltages (Clause 6.2.2.2)   | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Protection from Overheating (Clause 6.3)   | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Connection to Cable Distribution systems-Voltage Surge Test (Clause 7.4.2)               | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
|         |   | Connection to cable Distribution systems-Impulse (Clause 7.4.3)                          | IEC 60950-1 : 2005 +A1 :2009 +A2:2013 |
| 2.      | <b>Uninterruptible Power System (UPS)- Safety Requirement</b> | Power Interface (Clause 4.6)   | IEC 62040-1:2008                      |
|         |   | Marking & Instructions-Durability of Marking (Clause 4.7.16)                             | IEC 62040-1:2008                      |
|         |   | Protection Against Electric Shock and Energy Hazards (Clause 5.1.1, 5.1.2, 5.1.3, 5.1.4) | IEC 62040-1:2008                      |

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| Sl. No. | Telecom Equipment/Product                                     | Test Parameter or Type of Testing  | Standard/ Specification |
|---------|---|--|-------------------------|
|         | <b>Uninterruptible Power System (UPS)- Safety Requirement</b> | Requirement of Auxiliary Circuits (Clause 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5) | IEC 62040-1:2008        |
|         |   | Protective Earthing and Bonding (Clause 5.3)                                 | IEC 62040-1:2008        |
|         |   | AC and DC Power isolation (Clause 5.4)                                       | IEC 62040-1:2008        |
|         |   | Over Current and Earth Fault Protection (Clause 5.5)                         | IEC 62040-1:2008        |
|         |   | Protection of Personnel-Safety Interlocks (Clause 5.6)                       | IEC 62040-1:2008        |
|         |   | Clearance, Creepage Distances and Distances Through Insulation (Clause 5.7)  | IEC 62040-1:2008        |
|         |   | Wiring, Connections and Supply (Clause 6.1)                                  | IEC 62040-1:2008        |
|         |   | Connection to Power (Clause 6.2)   | IEC 62040-1:2008        |
|         |   | Wiring terminal for external power conductor (Clause 6.3)                    | IEC 62040-1:2008        |
|         |   | Enclosure (Clause 7.1)   | IEC 62040-1:2008        |
|         |   | Stability (Clause 7.2)   | IEC 62040-1:2008        |
|         |   | Mechanical Strength (Clause 7.3)   | IEC 62040-1:2008        |

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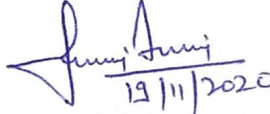
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| Sl. No. | Telecom Equipment/Product                                     | Test Parameter or Type of Testing                              | Standard/ Specification |
|---------|---|--|-------------------------|
|         | <b>Uninterruptible Power System (UPS)- Safety Requirement</b> | Construction Details (Clause 7.4)                              | IEC 62040-1:2008        |
|         |   | Resistance to Fire (Clause 7.5)                                | IEC 62040-1:2008        |
|         |   | Battery Location (Clause 7.6.4 & 7.6.7)                        | IEC 62040-1:2008        |
|         |   | Temperature Rise (Clause 7.7)                                  | IEC 62040-1:2008        |
|         |   | General provision for Earth Leakage (Clause 8.1)               | IEC 62040-1:2008        |
|         |   | Electric Strength (Clause 8.2)                                 | IEC 62040-1:2008        |
|         |   | Abnormal Operation and Fault Conditions (Clause 8.3.1 & 8.3.2) | IEC 62040-1:2008        |
|         |   | Connection to Telecommunication Networks (Clause 9)            | IEC 62040-1:2008        |

  
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