

## List of CABs Designated by India

S. No.	Reference	Testing CAB	Scope of Designation	Effective From *
1.	Designation Scheme for domestic CAB	<b>Electronics &amp; Telecommunications Testing Lab (ETTL)</b>  X-35, 3rd Floor, Okhla Phase-II, New Delhi-110020	1. System Employing Computer Telephony Integration (IR/CTI-01/04/MARCH2012) for following Interfaces <ol style="list-style-type: none"> <li>a. 2 wire PSTN</li> <li>b. ISDN PRI</li> <li>c. ISDN BRI</li> <li>d. ISDN E1R2</li> <li>e. SS7 signaling</li> </ol> 2. Interface Requirement of High Speed Line Drivers (IR/I/DCA-18/05.MARCH2013) for following Interfaces <ol style="list-style-type: none"> <li>a. 64 kbps co directional</li> <li>b. 2048 kbps unstructured</li> <li>c. 2048 kbps structured with N*64 kbps</li> <li>d. V.35/V.36</li> </ol> 3. ISDN Customer Premises Equipment Interface Requirements (IR/CPE-02/03.OCT 03) for the following Interfaces <ol style="list-style-type: none"> <li>a. Video Conferencing Equipment to work at 384 KB</li> </ol>	01/07/2014
			1. Interface Requirements of PABX (TEC/IR/SW/PBX-004/03/MAR 2015) for the following Interfaces <ol style="list-style-type: none"> <li>a. E1R2(2048 kbps using Indian R2 signaling)</li> <li>b. ISDN Basic rate Access at S interface</li> <li>c. ISDN Basic rate Access at U interface</li> <li>d. ISDN PRI</li> <li>e. Two-wire interface</li> </ol> 2. Interface Requirement for interchange of Digital Signal at 2, 8, 34 & 140 MB/s ports (TEC/IR/TX/DMX-07/02/SEP-12) for the following Interfaces <ol style="list-style-type: none"> <li>a. 2mbps</li> <li>b. 34mbps</li> <li>c. 45mbps</li> </ol> 3. Interface Requirements for interchange of STM1, STM4 and STM16 signals between different networks (TEC/IR/TX/DMX-006/03/DEC-11) for the following Interfaces <ol style="list-style-type: none"> <li>a. STM-1 optical</li> <li>b. STM-4 optical</li> <li>c. STM-16 optical</li> </ol>	19/02/2015

2.	Designation Scheme for domestic CAB	<b>Electronics test and Development Centre</b> 100 feet Road, Penya Industrial area, Bangalore-560058 Bangalore	1. TEC Standard QM333 except for tests relating to the following: a. Rain Test b. Water Immersion Test c. High Altitude Test 2. TEC/EMI/TEL-001/01/FEB-09; 3. IEC 60950-1 for the following: i. Components ii. Power Interface iii. Marking and instruction iv. Protection from hazards v. Wiring, Connection and supply vi. Physical requirements vii. Electrical requirement and simulation abnormal conditions viii. Connection to telecommunication network ix. Connection to cable distribution system	31/07/2014
3.	Designation Scheme for domestic CAB	<b>Bharat Test House (P) Ltd.</b> 1474, HSIIDC Indl. Estate, Rai, Sonapat-130001, Haryana	1. Safety of telecom equipments (IEC Standard 60950-1:2005) for the following tests: i. Components ii. Power Interface iii. Verifications of Marking & Instructions iv. Protection from Electric Shock and Energy Hazards v. SELV Circuits vi. TNV Circuits vii. Limited Current Circuits viii. Limited Power Sources ix. Provisions for Earthing and Bonding x. Overcurrent and Earth Fault Protection in Primary Circuits xi. Safety Interlocks xii. Electric Insulation xiii. Clearances, Creepage Distances and Distances through Insulation	23/11/2016

			<ul style="list-style-type: none"> <li>xiv. Wiring, Connections and Supply</li> <li>xv. Connection to a Main Supply</li> <li>xvi. Wiring Terminals for Connection of External Conductors</li> <li>xvii. Disconnection for the Main Supply</li> <li>xviii. Interconnection of Equipment</li> <li>xix. Stability</li> <li>xx. Mechanical Strength</li> <li>xxi. Design and Construction</li> <li>xxii. Protection Against Hazardous Moving Parts</li> <li>xxiii. Thermal Requirements</li> <li>xxiv. Dpening in Enclosures</li> <li>xxv. Resistance to fire</li> <li>xxvi. Electrical Requirements and Simulated Abnormal Conditions</li> <li>xxvii. Electric Strength</li> <li>xxviii. Abnormal operation and fault conditions</li> <li>xxix. Connection to telecommunication networks</li> <li>xxx. Connection to Cable Distributions Systems</li> </ul>	
4.	Designation Scheme for domestic CAB	<b>Tarang, Wipro Technologies</b>	<ul style="list-style-type: none"> <li>1. EMI/EMC Testing of telecom equipments (TEC/EMI/TEL-001/01/FEB 09)</li> <li>2. Safety of telecom equipments (IEC Standard 60950-1:2005) for the following tests: <ul style="list-style-type: none"> <li>i. Leakage Current</li> <li>ii. Electric/Dielectric strength</li> <li>iii. Earth bond test</li> <li>iv. Input current/power test</li> <li>v. Heating/temperature</li> <li>vi. Ball pressure</li> <li>vii. Steady force</li> <li>viii. Drop test</li> <li>ix. Inclined plane test</li> <li>x. Abnormal operation/fault condition test</li> <li>xi. Accessibility test</li> <li>xii. Creepage and clearance</li> <li>xiii. Steel ball impact test</li> <li>xiv. Capacitor discharge test</li> <li>xv. Stability</li> <li>xvi. Sharp edges and corners</li> <li>xvii. Push pull force</li> <li>xviii. Durability &amp; Marking test</li> <li>xix. Stress relief test/Resistance to heat</li> <li>xx. Cord anchorages and Strain relief</li> </ul> </li> </ul>	18/11/2016

5.	Designation Scheme for domestic CAB	<b>BNNSPEAG Test &amp; Calibration Laboratory (I) Pvt. Ltd.</b> 11/11, Sector-3, Rajindra Nagar, Sahibabad-201005 India	TEC/GR/SAR/001/01.MAR-09	27/02/2017
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\*For a period of three years or till the validity of NABL accreditation whichever is earlier.