NATIONAL STRATEGY ON CONFORMITY ASSESSMENT

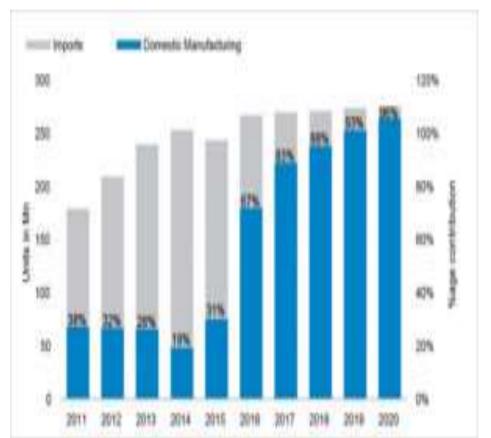




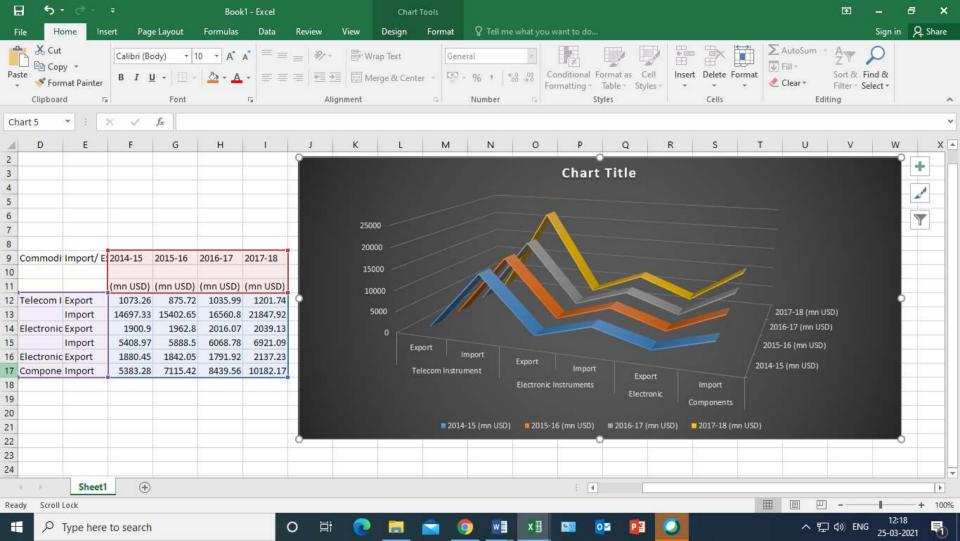
STAKEHOLDERS CONSULTATION ON CONFORMITY ASSESSMENT CERTIFICATION and CAB DESIGNATION PROCEDURES

THE TELECOMMUNICATION ENGINEERING CENTRE

The changing mobile phone buying pattern in India: Locally manufactured vs imports (Source: IIM-B and Counterpoint Research) Relevance of the Scheme today



✓ As per MOC Notification dated 29th August, 2018 regarding PPP-MII based on the DPIIT, TEC Certificate is required for the purpose of compliance of telecom products with latest TEC Standards/Specifications namely erstwhile GRs/IRs if such GRs/IRs have been issued as per clause 9 of the said Notification.



Call Connect Policy timing critical as India is widely ex-₹12,200 cr: pected to auction 5G Cleared by cabinet spectrum next year under PLI scheme for telecom gear Gear makers hopeful companies will go for How it will benefit higher local value-Speed up India's emeraddition & spend gence as a global 5G more on R&D gear mfg hub Boost network gear Global tech companies say package will exports help India effectively compete with China in Create robust compo-5G segment nents ecosystem Annual Growth of Subscriber base (in millions) 700 621.25 600

500

400

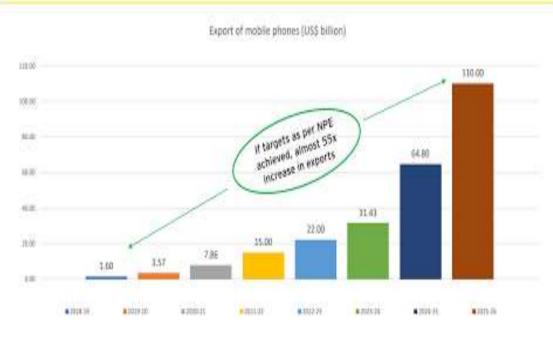
300

200

100

PLI- Impact

Exports growth roadmap of India under NPE 2019



28.53 36.29 44.97 54.62 75.54

429.72

300.49

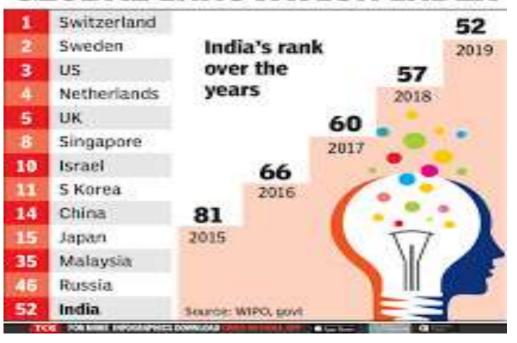
2005 2006 2007 2008 2009 2010 2011

206.83

140.32

COVID ACCELERATED ICT INNOVATION BY MULTIPLE TIMES

INDIA UP 5 SLOTS IN GLOBAL INNOVATION INDEX



Best	Rank	Major States	Score
performers	1	Kamataka	42.5
ACCUSED TO THE OWNER.	2	Maharashtra	38.03
Four of the five highest scoring major	3	Tamil Nadu	37.91
States in the India	4	Telangana	33.23
Innovation Index are from the south	5	Kerala	30.58
	6	Haryana	25.81
	7	Andhra Pradesh	24.19
MAR.	8	Gujarat.	23.63
M, O.	9	Uttar Pradesh	22.85
QT	10	Punjab	22.54



- In today's Homo Economicus society, telecommunication technology has become cardinal thread in the ambitiously emerging civilisations
- Nudging public policy and emergence of new great civilisation of humanity is not possible without telecom technologies...
- Telecom technologies are changing civilisation from homo economicus to Homo socio economicus..
- How can we sustain such societies with out standardisation and conformity assessment..

WHY CONFORMITY ASSESSMENT AND CERTIFICATION

Conformity assessment is the comprehensive term for procedures by which products and processes are evaluated and determined to conform to particular standards...

Gives confidence certainty of environment in which we deploy, helps to ensure product are delivered as per promise



VARIOUS TYPE OF CERTIFICATIONS THAT TEC AWARDS









TYPES OF CERTIFICATES ISSUED BY TEC

S.No	Certificate issued by TEC	Available Standard (Test Guide in accordance with)	Eligibility	Applicable to (Telecom & related ICT sector)	Certification fee	Remarks
1	Type Approval (TA)	Generic Requirements (GRs)	Any Indian Entity	Standard Products/Equipment/Solutions (Commercially Deployable)	*Shall be Incentivised for startups/SMEs appropriately	To Ensure Technical & Interoperable standards
2	Interface Approval (IA)	Interface Requirements (IRs)	Any Indian Entity	Standard Products/Equipment/Solutions (Commercially Deployable)	*Shall be Incentivised for startups/SMEs appropriately	To Ensure Interoperab

3	Certificate of Approval (CoA)	OEM/ODM/Developer Specs (based on available International & Regional benchmarks)	Any Indian Entity (Especially- Startups, MSMEs, Academia, R&D Institutions)	Innovative Product/Solution/Use-case (Incl. Integrated product & Software) for which TEC standards(GRs/IRs) are not specified	Determined Based on the product/use-case type & Test Guide (Variable) *Shall be Incentivised for startups/SMEs appropriately	To Encourage Innovation & Indigenisation w.r.t Emerging Emerging/ Next Generation Technologies & use cases (including 5G, IoT/M2M etc.)
4	Technology Approval	Generic Requirements (GRs)	Any Indian R&D Organisation: (Especially- Startups, MSMEs, Academia, R&D Institutions)	Non-Commercial or R&D- Prototype/System/Subsystem	No Fee	To Encourage Innovation & Indigenisation w.r.t Standard Products

Benefits from this initiative of DOT/TEC

TEC has Mutual Recognition agreement with singapore and is in the process of expanding with other countries based on the government of India trade policy. It will facilitate Indian TEC recognition valid in other countries which is advantage for global expansion of Indian

As on date TEC has designated 61 labs located pan India in addition to RTECs and TEC Labs

Advantage in conducting field trials along with TEC

PMI Policy advantages

Advantage in presenting product to international and domestic customers / regulators

Will be part of building the national leadership in ICT conformity testing (Geopolitical advantage)

Improvement suggested

Would like to add some more facilities and incentivise startups ,SMEs and women entrepreneurs within the government of India DIPP guidelines.

Improve ease of certification process by eliminating duplicity of process and other bureaucratic hurdles.

Encourage more academic institutions and R&D organisations, TOT colloberations etc to take advantage of TEC certifications.





To dream for 5 trillion dollar Indian economy, telecom is pivotal sector

The Conformity Assessment and certification shall be cardinal thread to accelerate such growth in any sector

- To Meet such demand in the industry TEC has started an ambitious scheme called Conformity Assessment Bodies Designation scheme and Mutual Recognition Agreement or Arrangements (MRAs)
- Where is the compliance eco- system to realise such big dream? ONLY PPP is the way!!!!
- CAB designation scheme is the answer





DESIGNATION SCHEMES

- There are two documents which lay down the procedures and criteria for designation/ recognization of CABs & CBs. These are available on TEC website www.tec.gov.in.
- Scheme for Designating Domestic Conformity Assessment Bodies (CABs) and Certification Bodies (CBs) for Conformity Assessment and Certification of Telecommunication Equipment
- Scheme for Recognising Foreign Designated Conformity Assessment Bodies and Certification Bodies for Conformity Assessment and Certification of Telecommunication Equipment



Readiness of Testing Infrastructure

• 60 Telecom Test Labs (17 Govt. + 43 Private) Designated by TEC Summary of CABs Designation as on date Specifications Wise

S1. No.	. Name of Standard/Scope		No. of CABs	Authority Responsible	Monthly Testing Capacity
1	EMI,	/EMC Testing	28	TEC Designated CABs	450
2	Safe	ty Testing	47	TEC Designated CABs	2500
3	Tech	nnical Parameters			
	(a)	2-Wire Telephone Instrument	1		
	(b)	G3 Fax Machine	1		
	(c)	Modem V.90	1		
	(d)	Private Automatic Branch Exchange (PABX)	2		
	(e)	Transmission Terminal Equipment (SDH Interface Requirement)	2		
	(f)	Point of Sale Devices (POS)	1		
	(g)	Mobile User Equipment (Handset Language Testing)	2	TEC Designated CABs/ ILAC Accredited Labs up	Being Assessed
	(h)	Equipment Operating in 2.4 GHz and 5 GHz Band	4	to 30.06.2021	
	(i)	Router TEC ER No. TEC 37681911	2		
	(j)	IP Security Equipment – TEC ER No. TEC 34731911	2		
	(k)	PON Family of Broadband Equipment – TEC ER No. TEC 14761911	2		
	(1)	LAN Switch as per TEC GR and IR	1		



Readiness of Testing Infrastructure

60 Telecom Test Labs (17 Govt. + 43 Private) Designated by TEC

Summary of CABs Designation as on date Specifications Wise

S1. No.		Name of Standard/Scope		Authority Responsible	Monthly Testing Capacity
3.	(m)	Transmission Terminal Equipment ER	1		
	(n)	ISDN Customer Premises Equipment ER	1		
	(o)	Conferencing Equipment ER	1		
	(p)	Cordless Telephone ER	1	TEC Designated CABs/	
	(q)	Feedback Device ER	1	ILAC Accredited Labs up	Being Assessed
4	to 20.06.2021				
	(a)	Environmental (QM-333)	20		
	(b)	IPV6	1		
	(c)	SAR	3		
5	Secur	ity Testing		DoT Security Wing (NCCS, Bengaluru)	

19 July 2021

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List of DOMESTIC CABs Designated (Region-Wise)

S1. No.	Name of CAB	S1. No.	Name of CAB
	Eastern Region		Southern Region
1	SAMEER Kolkata Centre, Ministry of Electronics and Information Technology, Government of India	1	Bharat Electronics Limited (BEL) EMC Test Centre Quality Assurance Division Bengaluru
2.	M/s Electronics Regional Test Laboratory (East), Kolkata	2	M/s Criterion Network Labs, Bengaluru
	Northern Region	3	CSA India Private Limited Bengaluru
1	AA Electro Magnetic Test Laboratory Pvt. Ltd. Gurugram	4	ECIL EMI EMC Test Facility Hyderabad
2	AB MSAI Research Labs Private Limited New Delhi	5	Electronics Test And Development Centre (ETDC) Bengaluru
3	Accurate Test Solutions Noida	6	EMTAC Laboratories Pvt. Ltd. Hyderabad
4	Aforeserve Labs Pvt. Ltd. Noida	7	IIT Madras Central Electronics Centre Chennai
	Alpha Test House New Delhi (Unit-4)	8	React Laboratories Bengaluru
	Amit Test and Calibration Centre Delhi (Unit-2)	9	SAMEER - Centre for Electromagnetics Chennai
	Bharti Automation Pvt. Ltd. Gurugram	10	SGS India Pvt. Ltd. Bengaluru
8	BNNSPEAG Test & Calibration Laboratory (I) India Pvt. Ltd. Ghaziabad	11	Tarang Lab (Wipro) Bengaluru
9	Classic Instrumentation Pvt. Ltd. Noida	12	The Tata Power Company Limited Strategic Engineering Division Bengaluru
10	Compliance International Telecom Laboratories Delhi	13	TUV Rheinland (India) Pvt. Ltd. Bengaluru (Unit-1)
11	Conformity Testing Labs Pvt. Ltd. New Delhi (Unit-1)	14	TUV Rheinland (India) Pvt. Ltd. Bengaluru (Unit-2)
12	Conformity Testing Labs Pvt. Ltd. New Delhi (Unit-2)	15	TUV SUD South Asia Pvt. Ltd. Bengaluru
13	Delhi Test House Delhi	16	U L India Pvt. Ltd. Bengaluru (Unit-1)
14	Electronics Regional Test Laboratory (North) [ERTL (N)] New Delhi	17	U L India Pvt. Ltd. Bengaluru (Unit-2)
	Electronics Test And Development Centre (ETDC) Mohali		Western Region
16	EMC Testing and Compliance LLP Gurugram	1	Electrical Research and Development Association (ERDA) Vadodara
17	Institute of Testing and Certification India Pvt. Ltd. Mohali	2	Electronics Regional Test Laboratory (West) [ERTL (W)] Mumbai
18	ICAT Sector 3 Manesar (Center-1)	3	Hi Physix Laboratory India Pvt. Ltd. Pune
19	ICAT Manesar (Center-2)	4	Institute for Design of Electrical Measuring Instruments (IDEMI) Mumbai
20	M/s Atharva Laboratories Pvt. Ltd., Noida	5	Kailtech Test and Research Centre Pvt. Ltd. Indore
21	K C India Test laboratories LLP Ghaziabad	6	Reliable Analytical Laboratories Pvt. Ltd. Thane
22	Matrix Test Labs Delhi	7	SAMEER - Centre for Microwave Research, EMC Division, Mumbai
23	Nemko India Test Lab Pvt. Ltd. Faridabad	8	Sunren Telecom Laboratory Mumbai
24	SPECTRO Analytical Labs Limited Greater Noida	9	The Automotive Research Association of India (ARAI) Pune
25	TUV Rheinland (India) Pvt. Ltd. Gurugram	10	TUV India Pvt. Ltd. Pune
26	U L India Pvt. Ltd. Gurugram	11	M/s Electronics Test and Development Centre, Pune
27	U R S Products and Testing Pvt. Ltd. Noida		•
28	Yadav Measurements Pvt. Ltd. Udaipur	1000	
29	M/s Alpha Test House, Bahadurgarh		
30	National Research & Technology Consortium, Parwanoo (HP)		



Major Points to be covered in Review of CAB Designation Scheme

- ❖ Provision for Enhancement/Extension & Deletion in Scope of Designation during period of Designation Cycle.
- ❖ Provision for Scope enhancement [either adding test parameters in existing designated Standard or addition of new standard(s)] at the time of Renewal.
- ❖ Provision for Remote Assessments in case of travel delays and restrictions especially in case of Natural calamities like floods, earthquakes, Pandemic and other situations like war, Riots, terrorism, safety & security issues and other man made or natural.
- ❖Complaints and Appeal handling Process.



Expectations from CABs

- ❖ Display of testing charges by the CABs on their website.
- ❖Submission of Summary sheet along with Test Reports issued for Products under MTCTE.
- ❖ Development of testing infrastructure for technical parameters of various ERs of TEC helping the country in making.
- ❖Enhancement in the monthly testing capacity of Labs for smooth implementation of MTCTE.

THANKS

YOUR SUGGESTIONS ARE WELCOME



