

<b>ANNUAL ACTION PLAN OF TEC (2015-2016)</b>			
<b>No.</b>	<b>Item</b>	<b>Division</b>	<b>Remarks</b>
<b>A Project</b>			
1	Establishment of Security Lab (Commissioning)	TSA	Q4
2	Establishment of CPE & Terminal Lab (Receipt of Equipment)	CPE&TL	Q4
3	Establishment of Green Passport lab Phase-I (Energy Efficiency Testing of IP related equipments in existing NGN Lab)(Placement of P.O.)	GP	Q4
4	Establishment of Green Passport lab Phase-II (Energy Efficiency Testing of GSM/RBS/other related ICT equipments)(Preparation of Project Estimate, Sanction of Project Estimate)	GP	Q3, Q4
5	Establish of Control Lab (Placement of P.O.)	CL	Q4
6	Establishment of Application Lab (Submission of Project Estimate)	AL	Q4
7	Establishment of Access Lab(Previously named as LTE Lab) (Issue of P.O.)	LTE	Q4
8	Establishment of SAR Lab Mumbai (Issue of P.O.)	RTEC Mumbai	Q4
9	Establishment of Test Labs at RTECs (Sanction of Project Estimate, Floating of tender)	RTEC Delhi, Bengluru, Mumbai	Q2, Q4
10	Empanelment of IPv6 Network and Security Auditors (Tender Doc. Preparation, Tender Floating & Evaluation, Empanelment of Network Auditors)	NA	Q2,Q3,Q4
11	Interconnecting RTECs through Routers (Tender Doc. Preparation, Tender Floating & Evaluation, Procurement of Routers and interconnecting RTECs)	NA	Q1,Q2,Q3
12	Online Sale of Documents	IT	Q2
13	Online Collection of Test Fees	IT	Q4
14	LAN Upgradation	IT	Q4
15	e-Inventory	A/IT	Q4
16	e-Procurement	A	Q2
17	e-Office	A/IT	Q4
<b>Total Projects</b>			<b>17</b>
<b>B New GRs/IRs</b>			
<b>(I) Network Elements</b>			
1	Gr on Lithium Ion Battery	FA	Q2
2	GR on NMS	IT	Q2
3	IR on IP Interconnect	IT	Q2
4	GR on Application Servers	IT	Q4
5	GR on SDN Routers	IT	Q4
6	20/30/40 meters Guyed Masts exclusively for deployment in hilly areas.	R	Q1
7	High Performance Antenna (18 and 21 GHz Band)	R	Q2
8	Hand Held Spectrum Analyzer	R	Q2
9	Block Up-Converter (BUC) in C-Band	R	Q2
10	Self Supporting Masts	R	Q3
11	Low Noise Block Coverter (LNB) in C-Band	R	Q3
12	4.5 and 6.0 Meter Satellite Antenna in C-Band	R	Q3
13	Integrated Broadband Access System for Rural Areas	R	Q3
14	Ku-Band HPA (400 Watts)	R	Q4

15	40 channel DWDM Equipment with ROADM functionality with a channel bit rate upto 100 Gbps	T	Q4
16	IR on ISIM	TWA	Q3
<b>(II) Measuring Equipment</b>			
<b>Total New GRs/IRs</b>			<b>16</b>
<b>C</b>	<b>Revision of GRs/IRs</b>		
<b>(I) Network Elements</b>			
1	GR on Solar Photo Voltaic (SPV) power supply for fixed wireless terminals & similar systems	FA	Q1
2	GR on STM-I customer premises equipment for access network application	FA	Q1
3	IR on Executive Telephone System	FA	Q2
4	IR on Multi line Telephone system	FA	Q2
5	IR on Conference facility device	FA	Q3
6	IR on point of sales terminals with PSTN/CDMA/GSM/GPRS/ interface	FA	Q4
7	GR on Enterprise Storage Infrastructure, GR/I/ESI-001/03.MAR.2012	IT	Q2
8	GR on SIP Terminal	NGS	Q2
9	GR on H.323/SIP Terminal	NGS	Q2
10	IR on SIP Terminal	NGS	Q2
11	GR on STP	NGS	Q2
12	GR on ENUM Server	NGS	Q3
13	Wi-Fi Access Point (GR No. TEC/GR/CP/Wi-Fi-002/01/SEP-11 )	R	Q1
14	Point to Multi Point Radio System (ISM Band)	R	Q2
15	IP based LMDS Equipment in 10.5 GHz Band (GR/LMD-03/02. DEC 2006)	R	Q3
16	Ethernet Traffic Analyser for Ethernet Transport Service Testing- Table top Model	T	Q2
17	GR on SIM	TWA	Q3
<b>(II) Measuring Equipment</b>			
1	High Precision Cleaver for Ribbon Fibre	T	Q3
2	Hot Jacket Remover for Ribbon Fibre	T	Q3
<b>Total Revision of GRs/IRs</b>			<b>19</b>
<b>D</b>	<b>Study Papers/White Papers</b>		
1	Automatically switched optical network	FA	Q1
2	Environment friendly management of e-waste	FA	Q1
3	Surge protection in Telecom Network	FA	Q3
4	Study on General Principles, Enforcement and Abuse of Intellectual Property Rights (IPR's) in the perspective of Telecom.	FN	Q3
5	A detailed study on Network Function Virtualization (NFV) and its impact on the future telecom networks.	FN	Q4
6	Energy Storage Platform	GP	Q1
7	Present trends worldwide in ensuring energy efficient Telecom Equipments in different countries	GP	Q1
8	Testing for Energy efficiency of Telecom Products	GP	Q1
9	Software defined tools for measurement of energy efficiency testing of various telecom equipments	GP	Q3
10	Study Paper on Technologies to enable Broadband for Rural Areas in India	IT	Q3
11	Study Paper on Broadband definition and Speed Measurement Methods	IT	Q4
12	Supporting technologies for LTE	LTE	Q1
13	Challenges in LTE deployment in india	LTE	Q2
14	Voice Over LTE (VoLTE)	LTE	Q1

15	Challenges in testing of LTE devices	LTE	To be decided
16	Study of Security Issues in Hardware	NA	Q3
17	Study of Testing of Mobile Devices for IPv6	NA	Q4
18	Affordable Broadband in India using Backhaul in TV White Space	R	Q2
19	Wireless Backhaul Solutions for Small Cells	R	Q4
20	Environmental impact of ICT	RTEC (ER)	Q1
21	Viable Power System Design (Solar and Hybrid) for BTSs in Mobile Network in India	RTEC (NR)	Q1
22	NGN Access Networks	RTEC (SR)	Q1
23	LTE:Future of Mobile Broadband Technology	RTEC (WR)	Q1
24	Instant mobile communications for disaster rescue operation	S&D	Q1
25	Fibre Handling (Best Practices)	T	Q2
26	PON Testing	T	Q3
27	Emerging Optical Switching Techniques	T	Q3
28	Study of an open source fuzzing tool	TSA	Q2
29	Security of Smartgrid Services	TSA	Q3
30	Security services based on software defined networking	TSA	Q4
31	Software Defined Network	TWA	Q1
32	5G	TWA	Q1
<b>Total Study Papers</b>			<b>32</b>
<b>E</b>	<b>Other Activities</b>		
1	Technical support to DoT	All	Continuous activity
2	Meetings with other Departments/Organisation	All	Continuous activity
3	Participation in NWG meetings under ITU-T Study Groups	All	Continuous activity
4	Formulation of Guidelines on GSM RBS (static mode) for testing and passport certification	FA	Q3
5	Core Group meeting on Green Energy	FA	Continuous activity
6	Coordination for contribution from TEC side in TEMC	FN	Continuous activity
7	TEC website maintenance and design	IT	Continuous activity
8	Maintenance of LAN and Internet Connectivity	IT	Continuous activity
9	Designation of Indian Labs as CABs/CBs	M&P	Continuous activity
10	Recognition of Indian/Singapore CABs under MRA Scheme	M&P	Continuous activity
11	Review of scheme for recognizing foreign designated CABs	M&P	Q2
12	Review of scheme for designation of Indian Labs as CABs/CBs	M&P	Q2
13	Formation of National Telecom Accreditation Board (Finalization of approval in TEC, Approval of DoT, Cabinet Note & Approval & Registration/Appointments)	M&P	Target to be decided based on DoT comments on CoS note of Ministry of Commerce

14	Competency Development	M&P	Continuous activity
15	TEC News letters	NGS	Q1,Q2,Q3,Q4
16	"Sancharika" Hindi Magazine	NGS	Q3
17	Hindi Rabahsha Ralted work	NGS	Continuous activity
18	Hindi Pakhwada Aayojan in Sep 2015	NGS	Q3
19	Testing & Certification of Telecom Products	NR	Continuous activity
20	CMRTS/PMRTS Licence/ Test Cases	R	As and when received from DoT
21	Testing of mobile phones for compliance to SAR limits .	R	Continuous activity
22	Implementation of ISO 9001:2008 for TEC	R	Continuous activity
23	Participation in TAG and APEX committee on Satellite Communications.	R	Continuous activity
24	Testing of Equipments/devices in NGN Lab	TSA	Continuous activity
25	Testing of devices on IPv6 Ready Logo test bed	TSA	Continuous activity
26	Examination of IPv6 Ready Logo test results	TSA	Continuous activity
27	Seminar on NGN/Security	TSA/NTIP RIT	Q4