	L ACTION PLAN OF TEC (2014-2015)				
No.	Item	Division	Remarks		
Α	Project				
1	Establishment of Security Lab	NGN	Q4		
2	Validation of NGN lab for SBC Testing	NGN	Q4 Q4		
3	Establishment of CPE & Terminal Lab (Receipt	CPE&TL	Q4		
٦	, ,	CFEXIE	Q4		
4	of Equipment) Establishment of Green Passport lab (Sanction	GP	02.04		
4		GP	Q3, Q4		
	of Project Estimate and preparation of Tender				
	Document)	CD	02.04		
5	Procurement of Power Analyser and	GP	Q3, Q4		
	integration with concerned Lab(s) for testing				
	energy effciency of Telecom Equipments				
	(Floating of Tender)				
6	Establishment of Control lab (Issue of P.O.)	CL	Q4		
7	Establishment of Application Lab (Floating of	AL	Q4		
	Tender)		·		
8	Establishment of LTE Lab (Issue of P.O.)	LTE	Q4		
9	Establishment of SAR Lab Mumbai (Issue of	RTEC Mumbai	Q4		
	P.O.)		Ψ.		
10	Establishment of Test Labs at all RTECs	RTEC Delhi,	Q4		
10	(Floating of tender)	Kolkata,Bengluru,	٧.		
	(Floating of tender)	Mumbai			
11	Online Sale of Documents	I	Q4		
12	Online Collection of Test Fees	I	Q2		
13	LAN Upgradation	I	Q2		
14	Establishment of Labs at NTIPRIT	NTIPRIT	Q2 Q4		
В	GRs/IRs of Network Elements	141211421	٧.		
(I)	New				
1	Variable abose Dever plant for Dural Telegons	FLA	02		
1	Varriable phase Power plant for Rural Telecom	FLA	Q2		
	CD D-t-b C m l N - 1 A l	т	0.4		
2	GR on Database for Telecom Network Applications	I	Q4		
3	IR on Ethernet Switches	I	Q2		
3 4	IR on Ethernet Switches IR on Firewall	I I	Q2 Q2		
3 4 5	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter	I I I	Q2 Q2 Q2		
3 4 5 6	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter IR on DPI	I I I I	Q2 Q2 Q2 Q2 Q4		
3 4 5 6 7	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter IR on DPI IR for SIM	I I I I M	Q2 Q2 Q2 Q2 Q4 Q3		
3 4 5 6 7 8	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter IR on DPI IR for SIM IR for USIM	I I I I M M	Q2 Q2 Q2 Q4 Q3 Q3		
3 4 5 6 7 8 9	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter IR on DPI IR for SIM IR for USIM IR on Wi-fi Access Point(AP)	I I I I M M M	Q2 Q2 Q2 Q4 Q3 Q3 Q3 Q4		
3 4 5 6 7 8	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter IR on DPI IR for SIM IR for USIM IR on Wi-fi Access Point(AP) GR on STM-1 MW equipment in 6GHz band	I I I I M M	Q2 Q2 Q2 Q4 Q3 Q3		
3 4 5 6 7 8 9	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter IR on DPI IR for SIM IR for USIM IR on Wi-fi Access Point(AP) GR on STM-1 MW equipment in 6GHz band with 28 MHz frequency spacing	I I I I M M M N R	Q2 Q2 Q2 Q4 Q3 Q3 Q3 Q4 Q3		
3 4 5 6 7 8 9 10	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter IR on DPI IR for SIM IR for USIM IR on Wi-fi Access Point(AP) GR on STM-1 MW equipment in 6GHz band with 28 MHz frequency spacing GR on Satellite WAN optimiser	I I I I M M M N R	Q2 Q2 Q2 Q4 Q3 Q3 Q4 Q3		
3 4 5 6 7 8 9	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter IR on DPI IR for SIM IR for USIM IR on Wi-fi Access Point(AP) GR on STM-1 MW equipment in 6GHz band with 28 MHz frequency spacing GR on Satellite WAN optimiser Point to Multipoint Radio system in 3.3 to 3.4	I I I I M M M N R	Q2 Q2 Q2 Q4 Q3 Q3 Q3 Q4 Q3		
3 4 5 6 7 8 9 10	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter IR on DPI IR for SIM IR for USIM IR on Wi-fi Access Point(AP) GR on STM-1 MW equipment in 6GHz band with 28 MHz frequency spacing GR on Satellite WAN optimiser Point to Multipoint Radio system in 3.3 to 3.4 GHz band	I I I I M M M N R	Q2 Q2 Q2 Q4 Q3 Q3 Q4 Q3		
3 4 5 6 7 8 9 10	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter IR on DPI IR for SIM IR for USIM IR on Wi-fi Access Point(AP) GR on STM-1 MW equipment in 6GHz band with 28 MHz frequency spacing GR on Satellite WAN optimiser Point to Multipoint Radio system in 3.3 to 3.4	I I I I M M M N R	Q2 Q2 Q2 Q4 Q3 Q3 Q4 Q3		
3 4 5 6 7 8 9 10	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter IR on DPI IR for SIM IR for USIM IR on Wi-fi Access Point(AP) GR on STM-1 MW equipment in 6GHz band with 28 MHz frequency spacing GR on Satellite WAN optimiser Point to Multipoint Radio system in 3.3 to 3.4 GHz band GR on Radio Access system in 1427-1535 MHz band	I I I I M M M N R	Q2 Q2 Q2 Q4 Q3 Q3 Q4 Q3 Q4 Q3		
3 4 5 6 7 8 9 10 11 12	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter IR on DPI IR for SIM IR for USIM IR on Wi-fi Access Point(AP) GR on STM-1 MW equipment in 6GHz band with 28 MHz frequency spacing GR on Satellite WAN optimiser Point to Multipoint Radio system in 3.3 to 3.4 GHz band GR on Radio Access system in 1427-1535 MHz	I I I I I N M M N R R R R	Q2 Q2 Q2 Q4 Q3 Q3 Q4 Q3		
3 4 5 6 7 8 9 10 11 12	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter IR on DPI IR for SIM IR for USIM IR on Wi-fi Access Point(AP) GR on STM-1 MW equipment in 6GHz band with 28 MHz frequency spacing GR on Satellite WAN optimiser Point to Multipoint Radio system in 3.3 to 3.4 GHz band GR on Radio Access system in 1427-1535 MHz band	I I I I M M M N R R	Q2 Q2 Q2 Q4 Q3 Q3 Q4 Q3 Q4 Q3		
3 4 5 6 7 8 9 10 11 12	IR on Ethernet Switches IR on Firewall IR on UTP to Optical Converter IR on DPI IR for SIM IR for USIM IR on Wi-fi Access Point(AP) GR on STM-1 MW equipment in 6GHz band with 28 MHz frequency spacing GR on Satellite WAN optimiser Point to Multipoint Radio system in 3.3 to 3.4 GHz band GR on Radio Access system in 1427-1535 MHz band GR on Telecom Towers	I I I I I N M M N R R R R	Q2 Q2 Q2 Q4 Q3 Q3 Q4 Q3 Q1 Q4 Q4		

18	GR Optical Transport Network(OTN) XFP	Т	Q2
(II)	Revision		-
1	Planning & Maintainence guidelines for SPV	FLA	Q2
2	Planning guidelines for SMPS based power plant	FLA	Q3
3	GR on STM-1 customer premises equipment for access network application	FLA	Q3
4	Interface Requirement between BSNL/MTNL network & private broadband network	FLA	Q1
5	GR on Set Top box(STB) for FTTH	FLA	Q1
6	IR for ADSL2+ for Central Office and remote office application	FLA	Q1
7	GR on IP Based Integrated Media Gateway for NLD/ILD applications-IR/MGW-01/04.OCT.2012	I	Q2
8	GR on Layer -4 IP Switch GR/SA/LSW-02/02 Mar.2011	I	Q4
9	GR for Cell Broadcast System	М	Q3
10	GR for USIM	М	Q3
11	IR on Electronic Telephone Instrument	N	Q2
12	IR on Group 3 Fax machine Card	N	Q2
13	IR for Terminals for connecting to PSTN	N	Q4
14	IR on V.90 Modem	N	Q4
15	GR on 6 GHz ultra High Performance Antenna	R	Q1
16	IR on PABX for PSTN Connectivity	S	Q3
17	IR on Digital Exchange with 2048 Kbit/s interface	S	Q2
18	IR on Switching Node with Network-Network interface at STM-1	S	Q2
19	GR on Optical Fiber Jumper & Adapter	Т	Q4
20	GR on 80 Channel DWDM Equipment with ROADM functionality with a channel bit rate upto 10Gbps	Т	Q4
21	Remote Fibre Management System	Т	Q2
С	GRs/IRs of Measuring Equipment		
(I)	New		
1	GR on Power meter for green passport testing	FLA	Q1
(II)	Revision		•
1	GR on Optical Fixed Attenuator	Т	Q3
2	GR on Optical Varriable Attenuator	Т	Q3
D	TS/TPs for GRs/IRs		
1	IR on Set Top box for FTTH, ADSL for Central office	FLA	Q2
2	IR on ADSL2+ for Central Office and remote office application	FLA	Q2
3	Interface Requirnment between BSNL/MTNL network & private broadband network	FLA	Q1

4	IR on Radio Modem in ISM Band	N	Q1
5	IR on Wi-fi Data Card(USB)	N	Q3
6	GR on Cordless Phone	N	Q1
G	Study Papers		
1	Automatically switched optical network	FLA	Q3
	Environment friendly management of e-waste	FLA	Q4
		. — .	ζ.
3	Energy Storage Platform	FLA	
	Testing for Energy efficiency of Telecom	GP	Q3
	Products		
	Present trends worldwide in ensuring energy	GP	Q4
	efficient Telecom Equipments in different		
	countries		
	eMS/NMS architecture in current Telecom	I	Q3
	Networks		0.0
	Interconnect Billing Requirements for IP based	I	Q2
	Networks Supporting technologies for LTE	LTE	01
	Supporting technologies for LTE Challenges in LTE deployment in india	LTE	Q1 Q2
	Voice Over LTE (VoLTE)	LTE	Q2 Q3
	Challenges in testing of LTE devices	LTE	Q3 Q4
	HSPA+	M	Q1
	Supplementary Downlink	M	Q2
	Security Accreditation Scheme for SIM	M	Q1
	Relevance of Telecom Accreditation Board in	M&P	Q3
	Indian Scenario		·
16	Mobile Radio trunking & its future Roadmap	N	Q2
17	Fuzzing tool for Security testing	NGN	Q2
	Penetration testing Procedures	NGN	Q2
	Security issues in M2M communication	NGN	Q4
20	Identity management	NGN	Q4
21	Satellite UMTS	R	Q3
	Offloading 3G/4G networks with Wi-Fi	R	Q1
	hotspots and hot zones.		
	IP PABX	S	Q3
	Lawful interception in multi access technology	S	Q1
	scenario	C0.D	0.2
	Instant mobile communications for disaster	S&D	Q3
	rescue operation	Т	Q3
	PON Testing OTN at Edge		Q3 Q3
	Emerging Optical Switching Techniques	÷ †	Q3 Q4
	Fibre Handling (Best Practices)	'	Q2
	Management of e-Waste	RTEC (ER)	Q1
	Enviormental impact of ICT	RTEC (ER)	Q4
	Viable Power System Design (Solar and	RTEC (NR)	Q2
	Hybrid) for BTSs in Mobile Network in India		
	Role of SSTP in post MNP scenario and its	RTEC (SR)	Q1
ŗ	migration to NGN		
	NGN Access Networks	RTEC (SR)	Q3
35	LTE:Future of Mobile Broaband Technology	RTEC (WR)	Q2

Н	Other Activities		
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	All	Continuous
	Study Groups		activity
4	Core Group meeting on Green Energy	FLA	Continuous
			activity
5	TEC webiste maintenance and design	I	Continuous
			activity
6	Maintenance of Internet / Intranet	I	Continuous
			activity
7	Designation of Indian Labs as CABs/CBs	M&P	Q3
8	Recognition of Indian/Singapore CABs under	M&P	Q2
	MRA Scheme		
9	Defining Certification Procedure for Designated	M&P	Q1
	CABs		
10	Formation of National Telecom Accreditation	M&P	Q1,Q2,Q3,Q4
	Board (Finalization of approval in TEC,		
	Approval of DoT, Cabinet Note & Approval &		
	Registration/Appointments)		
	CMPTG /PMPTG L: / T L G		
11	CMRTS/PMRTS Licence/ Test Cases	N	As and when
			received from
10	T. I. C. T. I. NONL I	NON	DoT
12	Testing of Equipments in NGN Lab	NGN	Continuous
10	T II C I I I I I I I I I I I I I I I I I	NGN	activity
13	Testing of devices on IPv6 Ready Logo test	NGN	Continuous
1.4	bed NGN/Git-	NCN /NTIDDIT	activity
14	Seminar on NGN/Security	NGN/NTIPRIT	Combinuous
15	Testing & Certification of Telecom Products	NR	Continuous
1.6	Denougl of ICO 0001, 2009 for TEC		activity
16 17	Renewal of ISO 9001:2008 for TEC	<u>R</u> R	Q3
1 1/	Testing of mobile phones for compliance to SAR limits .	ĸ	Continuous
1.0		C	activity
18 19	TEC News letters	<u> </u>	Q1,Q2,Q3,Q4
20	"Sancharika" Hindi Magazine Coordination for contribution from TEC side in	<u>S</u> S&MC	Q3 Continuous
20		Same	
	TEMC		activity

Annual Action Plan 2014-15

Core Activity

Division	GRs & IRs			TS/TPs Study			ıdy	Co	urses	To	tal	%age	
	New		Revision				Ite	ms					
	Т	Α	Т	Α	Т	Α	Т	Α	Т	A	Т	Α	
Fixed Line Axcess (FLA)	2		6		3		3				14	0	0.00
GREEN PASSPORT (GP)							2				2	0	0.00
INFORMATION TECHNOLOGY (I)	5		2				2				9	0	0.00
LONG TERM EVOLUTION (LTE)							4				4	0	0.00
Mobile (M)	2		2				3				7	0	0.00
MUTUAL RECOGNITION ASSESSMENT (MRA)							1				1	0	0.00
NETWORK (N)	1		4		3		1				9	0	0.00
NEXT GENRATION NETWORK (NGN)							4				4	0	0.00
Radio (R)	5		1				2				8	0	0.00
SWITCHING (S)	1		3				2				6	0	0.00
SERVICE & DEVELOPMENT (S&D)	2						1				3	0	0.00
TRANSMISSION (T)	1		5				4				10	0	0.00
EASTERN REGION , TEC (ER)							2				2	0	0.00
NORTHERN REGION, TEC (NR)							1				1	0	0.00
SOUTHERN REGION ,TEC (SR)							2				2	0	0.00
WESTERN REGION , TEC (WR)							1				1	0	0.00
NTIPRIT									20		20	0	0.00
Total	19	0	23	0		ŝ (35	C	20	0	0 103	0	0.00

Project Activity

Div	Project	l	PE		DΕ	Ten	der	P	0	Supply		Supply		Install		Comm.		Payment	
		Т	Α	Т	Α	Т	Α	T	Α	Т	Α	Т	Α	Т	Α	Т	Α		
A	e-Inventory			1				1		1		1		1		1	í l		
	e-Procurement			1				1		1		1		1		1	í l		
	e-Office			1				1		1		1		1		1	i l		
l	On-line Sale									1		1		1		1	1		
	On-line Test Fee			1				1		1		1		1		1	1		
	LAN Upgradation					1		1		1		1		1		1	1		
	Establishment of Security Lab	1	1	1		1		1		1		1		1					
NGN	Validation of NGN lab for SBC Testing																		
	Establishment of CPE & Terminal Lab																		
CPE & TL		1	1	1		1		1		1									
	Establishment of Green Passport lab	1	1	1		1													
	Procurement of Power Analyser and																		
	integration with concerned Lab(s) for																		
	testing energy effciency of Telecom																		
	Equipments	1	1	1		1													
	Establishment of Control lab	1	1	1		1		1											
	Establishment of Application Lab	1	1	1		1													
	Establishment of LTE Lab	1		1		1	·	1	·		<u>-</u>								
	Establishment of SAR Lab (Mumbai)	1	1	1		1		1											
RTECs	Establishment of Test Labs at all RTECs	1	1	1		1													
NTI	Establishment of Labs at NTIPRIT	1	1	1		1		1		1		1		1		1	1		
Total		10	0	14	0	11	0	11	0	9	0	8		8		7	7		

Other Activity

Div	Rev (Cr)	SA	TAC		IAC		IAC		IAC		IAC		IAC		CoA				Tot	tal																
	A	A		Α	Α		Α				i	Α																								
NR & RC			_								1	0																								