

CHAPTER - II

Statement of Budget Estimates 2015-16

Sl. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2015-16 (Rupees in crore)			Quantifiable Deliverables / Physical Outputs	Projected Outcomes	Process/ Time basis	Remarks/ Risk Factors
			Non-Plan	Plan Budget	Comp IEBR				
I	II	II	III	IV	V	VI	VII	VIII	IX
1.	National Informatics Centre (NIC)	Provide wide range of E-Governance infrastructure and services in the country at various levels right from Central Government, State Governments to district administrations in their initiatives towards providing good Governance to the people.	-	700.00	-	Cyber Security Network and application security audit and hardening systems and Securing Data Centres; Enhancement of security at NIC State Centres;	<ul style="list-style-type: none"> Enhanced security of NICNET and services. Enhancement of security solutions for Data Centres. 	March, 2016	
						Last-Mile Solutions VPN services Provided VPN services to Central and State Government Ministries and Departments, NIC employees for data and content updation and management of	Expansion of VPN system to support new eGov projects such as Ebiz, Cloud , CBI, Mygov	March, 2016	

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						<p>their servers located in NDC, SDC and DR centres.</p> <p>AAA System</p> <p>AAA infrastructure used for management of network devices of NKN/NICNET</p>	Existing AAA infrastructure needs to be upgraded to support latest network devices and technology	March, 2016	
						<p>Videoconferencing infrastructure development</p> <ul style="list-style-type: none"> Expansion of Cloud based Video-conferencing services over NICNET Augmentation of Multipoint VC infrastructure Replacement of old VC equipment at 	<p>To provide High definition software based videoconferencing solution to work over NICNET and internet to various state and Central Government Departments and augmentation of infrastructure at various locations for cloud based solution.</p> <p>Additional infrastructure for High Definition Multipoint Video-conferencing services infrastructure deployment in States.</p> <p>Providing High Definition VC systems for VC Services from various NIC State/District Centres.</p> <p>To provide IP communication connectivity to all NIC locations across NICNET.</p>	<p>Jan, 2016</p> <p>March, 2016</p> <p>March, 2016</p>	

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						<p>100 Districts / locations.</p> <ul style="list-style-type: none"> Augmentation of IP Phone infrastructure over NICNET. 		March, 2016	
						<p>Remote Sensing & GIS</p> <p>Multi Layer GIS Platform & Infrastructure, Image as well as vector GIS services, priority sector applications & training.</p>	Service Oriented National GIS Framework with Web Services/APIs to service various E-governance & planning users	March, 2016	<p>Remote Sensing & GIS</p> <p>Multi_Layer GIS Platform & Infrastructure, Image as well as vector GIS services, priority sector applications & training</p>
						<p>Data Centre</p> <p>Expansion of Cloud Computing Services from NDC, Shastri Park.</p>	<p>NIC National Cloud Services would provision additional 3000 Virtual Servers in this period for use various e-Governance Applications. Augmentation and upgradation of ICT infrastructure and software for expansion of Cloud Services.</p> <p>Augmentation and upgradation of Servers, Racks, SAN/LAN Switching and Load balancer infrastructure for energizing of remaining 50 racks.</p>	March, 2016	

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						Upgradation of National Data Centre, Pune. Upgradation of National Data Centre, Hyderabad.	Augmentation of Servers, SAN & LAN Switch and Storage infrastructure to set up Cloud Services.		
						NICNET International Gateway project Gateway Bandwidth will be upgraded.	Enhanced and efficient availability of Internet Services with enough redundancy to run critical services such as Data centers and Internet access for various Government Departments.	March, 2016	
2. Autonomous Societies/Bodies under DeitY									
(i)	Centre for Development of Advanced Computing (C-DAC)	Enhance R&D capabilities in strategic and cutting edge ICTE technologies	3.00	75.00	270.00	Enhancement of HPC systems and applications capabilities Initiation /Execution of projects in strategic areas and cutting edge	<ul style="list-style-type: none"> • Deployment/ Upgradation of HPC Systems • Porting/Development of HPC applications on deployed/ upgraded systems • Initiation of new projects and completion of ongoing projects • Number of Research Papers published 	<p>March 2016</p> <p>March 2016</p> <p>March 2016</p> <p>March 2016</p>	

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						<p>areas</p> <p>Generation of IPR and dissemination of research results</p> <p>Development of Cloud Computing Framework</p>	<ul style="list-style-type: none"> Number of Patents filed Operationalization/ Upgradation/Deployment of Cloud Infrastructure Porting/Developing/ Enhancing of Applications on deployed/ upgraded Cloud infrastructure 	<p>March 2016</p> <p>March 2016</p> <p>March 2016</p>	
		Human Resource Development in core competency areas				<p>Conducting specialized courses and finishing school programmes</p> <p>Conducting training activities for Skill Development</p> <p>Enhancement of Intellectual Property Creation in India</p> <p>Enhanced capabilities</p>	<ul style="list-style-type: none"> Students trained through various programs run by C-DAC Persons Trained Number of Ph.D.s produced with C-DAC's support Number of C-DAC members who have undergone training/certification 	<p>March 2016</p> <p>March 2016</p> <p>March 2016</p> <p>March 2016</p>	
(ii)	NIELIT	<ul style="list-style-type: none"> To create Human Resources in the area of Information Electronics & Communication Technology (IECT) through formal & non- 	1.70	8.00	224.24	<p>To produce quality professionals through Long Term & Short Term Courses in the Formal & Non-Formal Sector.</p> <p>(a) To conduct training for long</p>	2200 candidates	Annual Exams	To boost skill development and employability

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		formal courses.				<p>term formal courses (M.Tech/ B.Tech/MCA/ BCA etc).</p> <p>(b) To conduct training for non-formal courses with duration of 1 year and above by NIELIT Centres (viz; O/A/B/C level course, Bio-informatics O/A level courses, Hardware courses O/A level, Multimedia O/A level etc.)</p> <p>(c) To conduct training for non-formal courses with duration of 1 year and above by NIELIT Accredited Institutes</p> <p>(d) To conduct training for non-formal courses with duration of</p>	<p>10500 candidates</p> <p>41500 candidates</p> <p>41000 candidates</p> <p>424500 candidates</p>	<p>July, 2015 & January, 2016 Semester wise exams</p> <p>July, 2015 & January, 2016 Semester wise exams</p> <p>Batch-wise exams</p> <p>Batch-wise exams</p>	

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						less than 1 year (other than CCC & BCC) (e) To conduct training for course on Computer Concepts (CCC) and Basic Computer Course (BCC)			
						Expansions through Capacity Building Activities (a) To create standardized courses (b) Setting up of NIELIT Centres/ Extension Centres in the country including North Eastern Region (c) Grant/ renewal of Accreditation for conduct of IT courses (d) Grant/ renewal of	05 number of courses 2 Centres 55 Institutes 25 Institutes	On-going process Subject to approval by DeitY On-going process On-going	New courses and new Centres/Institutes will help in proliferation of new technologies across the country and in remote locations

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						<p>Accreditation for conduct of Hardware/ Electronic courses</p> <p>(e) Facilitation to Agencies for conduct of Examination/ Evaluation/ Assessment</p>	07 number	<p>process</p> <p>On-going process</p>	
						<p>Online Services for other Agencies</p> <p>(a) Online Assessment of candidates</p> <p>(b) Recruitment/ Departmental examination through online services</p>	<p>2200 candidates</p> <p>7 examination cycles</p>	On-going process	
						<p>Internal & External Budgetary Resources (IEBR)</p> <p>(a) To generate Internal Revenue</p> <p>(b) To maximize External Budgetary</p>	<p>Rs. 16767.04 lakh</p> <p>Rs. 5657.06 lakh</p>		

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						Resources			
(iii)	SAMEER	(1) Research & Development activities in the areas of its expertise	3.00	20.00	48.00	<u>R&D in Core Areas</u>	Research leading to expertise in		
							Development of Optical Frequency Comb generator.	Technology development for Optical Frequency Comb generation New Project April 2015-March 2017	
							Development of MIL STD 461 E/F Power Supply Module and signal Interface.	Technology development New Project April 2015-September 2016	
							Design and development of oxide coated cathode for S-band pulsed magnetron	Technology development New Project April 2015-March 2017	
							Design and development of high Power S-band three port circulator and RF load	Technology development New Project	

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								April 2015-March 2017	
							Design and development of S-band pulsed magnetron	Technology development New Project April 2015-March 2017	
							Development of Microwave Imaging system for screening of breast cancer tumors (E biopsy)	Technology development New Project April 2015-March 2017	
							Ku-band MMIC based down converter	Technology development New Project April 2015-March 2017	
							Design and development of 5-8 watt X band MMIC Power amplifier	Technology development New Project April 2015-March 2017	
							HF Sea-Sonde Radar capable of remotely sensing sea state	Technology development New Project April 2015-March 2017	
							Customization of developed MLC for LINAC (Variable Leaf sized MLC) & Stand alone EPID System	Technology development	

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								New Project April 2015- March 2017	
							Compact Digital Communication System	Technology development New Project April 2015- March 2017	
							SAR digital image processor	SAR digital image processing technology development Continuing April 2014- March 2016	
							Marx technology based 200 KV UWB Impulse generators for HPEM testing	Technology development for Impulse generators for HPEM testing Continuing April 2014- March 2016	
							Two axis stabilization system	Technology development for Two axis stabilization system Continuing	

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								April 2014-March 2016	
							47 GHz MMIC based frequency multiplier	Technology development for 47 GHz MMIC based frequency multiplier Continuing April 2014-March 2016	
							Millimeter-wave radiometer	System development Continuing April 2013-March 2016	
							Development of GaAs based Quantum infrared Detectors in the transmission window of 8-12 microns	Technology development for QW infrared detector Continuing August 2011-Dec 2015	
							Growth of III-V Multi-Junctions by Molecular Beam Epitaxy	Multi-junctions material growth Continuing August 2011-Dec 2015	
							Development of high power Solid State	High power	

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							Amplifiers	Solid State Amplifiers technology development Continuing April 2012- March 2016	
							Development of THz technology for imaging and spectroscopy	Technology for THz imaging and spectroscopy Continuing April 2012- March 2016	
							Development of high resolution imaging system using spectral domain-optical coherence tomography(SD-OCT)	OCT for bio-imaging application Continuing April 2012- March 2016	
							Development of gyrotron subsystems	Subsystem design and development Continuing April 2012- March 2016	
							Development of Direct phase modulators and PLDRO	Direct phase modulators and PLDRO Continuing April 2013-	

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								March 2016	
							Algorithm development for broadband data link	Development of algorithm for broadband data link Continuing April 2013- March 2016	
							Development of lightning detection network for NE	Lightning detection network for NE in association with IMD New Project April 2014- March 2017	
							Digital Inosonde Radar with Inospheric data analysis, software and collection and analysis of Inospheric data	Digital Inosonde Radar for Dibrugarh University Continuing April 2013- March 2016	
							Application of Innovative Dielectric property based technology for processing and quality measurement of agro products	Dielectric property based technology for processing and quality	

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								measurement of agro products New Project April 2014- March 2017	
							Development and commissioning of SODAR and study of the lower atmospheric boundary layer in the Silchar region, Assam by Assam University, Silchar	Development of SODAR and commissioning at Assam University, Silchar Continuing April 2013- March 2016	
		(2)To engage in product development driven by technology and user requirement			37.00 (EB R)	Research and Development of High Energy Linear Accelerator Technology for generation medical Isotopes	High Energy Linear Accelerator Technology development for generation medical Isotopes	Anticipated	
						SCAN-ERA (Indigenous development Magnetic Resonance Imaging system)	MRI technology development	Approved	
						Electromagnetic and Electronics based Inward Crop Inspection system for	Development of crop inspection system	Anticipated	

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						Smart warehouse			
						Brix measurement using dielectric properties of solution	Development of Brix measurement using dielectric properties	Approved	
						Secured Micro Data Link	Development of Secured Micro Data Link	Anticipated	
						Establishment of SAMEER Centre of high power microwave tubes and components technology at IIT Guwahati, Assam	To establish microwave tubes and components technology at IIT Guwahati	Anticipated	
						Feasibility study of Strap down Seeker	Feasibility study	Approved	
						Development of transmitter for telemetry applications	Making transmitter for telemetry applications	Anticipated	
						OFDM based point to point communication system	Making OFDM based point to point communication system	Anticipated	
						Development of assorted modules for FCS systems for MTPF	Development of modules for FCS system	Anticipated	
						Development of Control Modules for FCS System	Control Modules development for FCS System	Approved	
						Arming control unit	Development of arming control unit	Anticipated	
						RF based High Altitude proximity sensors in airborne platform	Technology development for RF based High Altitude proximity sensors	Anticipated	

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						Implementation of Shared Aperture (SHAPE) antennas	Development of Shared Aperture antennas	Anticipated	
						Development of Phased array SODARs,	Phased array SODARs technology development	Anticipated	
						High Power Transmitters	Development of High Power Transmitters	Anticipated	
						Laser absorption based gas sensor for pollution control.	Development of Laser absorption based gas sensor	Anticipated	
						Development of Pilot Balloon Observation Automation system	Technology development for Pilot Balloon Observation system	Anticipated	
						Development of Hand held Data Logger (HHDL) for Agro-met observation processing	Making Hand held Data Logger (HHDL) for Agro-met application	Anticipated	
						Development of UHF Wind Profiler	UHF Wind Profiler technology development	Anticipated	
						Stratospheric Tropospheric (ST) Radar	State-of the art atmospheric radar for getting wind profiles up to 16-20 kms	Continuing Nov, 2010- Oct 2015	
						Broadband wireless communication using THz technology	Technology development for wireless communication using THz radiation	Continuing July 2013- June 2016	
						S band TT & C Transponders	S-band Transponders	Continuing March 2007- December 2015	
						Ka-band Polarimetric	Ka-band Doppler Radar for Cloud Profiling	Continuing	

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						Doppler Radar for Cloud Profiling for MOES		March 2013-February 2016	
						Development of transmitter and wrap-around multifunctional antennas	Product development and delivery	Continuing July 2013-June 2015	
						S/Ka Band Tracking Antenna	Product development and delivery.	Continuing PDC January, 2016	
						S/Ka band telemetry receiver	Product development and delivery.	Continuing PDC February, 2016	
						Two RF channel CDMA receivers	Product development and delivery.	Continuing October-2013-September 2015	
						Spread spectrum transmitter	Product development and delivery.	Continuing October-2013-September 2015	
						IR laser absorption based compact sensor to detect toxic chemical agents	Product development and delivery.	Continuing July 2013-June 2016	
						Development of FCS system for Fincanteire II	Product development and delivery.	December, 2015	
						Altimeter	Product development and delivery.	Continuing March 2014-September	

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								2015	
		(3)To provide test and measurement services and to undertake training and consultancy in areas of core competence.			14.0 (IR)	Test, measurement and Design consultancy services Calibration and reference to support EMI test instrumentation Conduct training and consultancy and guiding students to carry out projects for their engineering degrees.	Test assignments for EMI/EMC, Antennas and thermal design and analysis. Training of manpower	Analyze the product design for its EMC and make test plan for its compliance to international standard. In case of non-Compliance, Offer EMC design assistance. Timeline: Continuous activity	
		(4)Strengthening institutional infrastructure to support ongoing programmes.				Construction of Residential quarters for Scientists and utility building at Navi Mumbai. Construction of Scientist Hostel building at SAMEER, Powai campus through HSCL.	Execution and creating infrastructure	Timeline : 20-24 months	
		(5)To keep pace with rapidly changing technology by continuous				Deputation of staff in India/Abroad to attend workshop, conference and seminars. To invite experts to	Interaction with national and international experts and exchange of ideas	Timeline: Continuous activity.	

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		training of its manpower				deliver talks/seminars at SAMEER Centres.			
(iv)	Education and Research Network (ERNET) India	To implement turnkey ICT projects/ VC for targeted user domains.	-	0.10	70.00	<p>Setting up of Campus Network & IT Infrastructure at NIFTEM, Haryana</p> <p>Setting up of ICT infrastructure in Govt. schools under DoE, Daman & Diu</p>	<p>Designed Campus Wide Area Network, VC & Networking facilities for the NIFTEM. Passive work has been completed. Installation of active equipments is to be done.</p> <p>a. ERNET India has signed a Memorandum of Understanding (MoU) in June'2014 with Directorate of Education, Daman & Diu to set up state-of-the-art ICT infrastructure in their 25 Computer labs. in 25 schools</p> <p>b. ICT Infrastructure is to be set up in the Govt. schools under DoE, Daman & Diu</p> <p>c. The scheme will promote computer literacy program & use of IT in the schools encouraging students and teachers to use computer as a medium of teaching and learning.</p> <p>d. The ICT centers enhance the learning capabilities of students using latest IT technologies and applications.</p> <p>e. Teachers training will be conducted for 50 school teachers of Education department of Daman & Diu.</p> <p>a. ERNET India has signed a Memorandum of Understanding (MoU) in June' 2014</p>	<p>3 years ongoing activity extendable based on MoU (2013-2016)</p> <p>5 years ongoing activity extendable based on MoU</p>	

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						<p>Setting up of ICT infrastructure in Govt. schools under DoE, Dadra Nagar Haveli.</p> <p>Setting up of e-Learning ICT Centres in 204 schools of Srikakulam, District of Andhra Pradesh</p>	<p>with Directorate of Education, Dadra Nagar Haveli to set up state-of-the-art ICT infrastructure in their 39 Computer labs in 27 schools.</p> <p>b. ICT Infrastructure is to be set up in the Govt. schools under DoE, Dadra Nagar Haveli</p> <p>c. The scheme will promote computer literacy program & use of IT in the schools encouraging students and teachers to use computer as a medium of teaching and learning.</p> <p>d. The ICT centers enhance the learning capabilities of students using latest IT technologies and applications.</p> <p>e. Teachers training will be conducted for 78 school teachers of Education Department of Dadra Nagar Haveli</p> <p>The e-Learning ICT centres are being established in 204 schools of remote & tribal areas of Srikakulam District of AP. The internet connectivity will also be provisioned.</p> <p>One ICT centre was already established and inaugurated by Honourable Minister of State for Communications & Information Technology on 27.02.2014</p> <p>The ICT equipment & material is delivered in 152 schools and commissioning is in progress.</p>	<p>5 years ongoing activity extendable based on MoU</p> <p>3 Years (Aug'13 to July'16)</p>	

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		Operations of National Academic and Research Network: Providing a world class reliable, robust and state of the art Network services to academic and research institutions of the country.				<p>Upgradation of ERNET Delhi PoP including commissioning and installation of high end Firewalls and Intrusion Detection Protection System (IPS).</p> <p>Upgradation of the 'Islanding project' infrastructure for Delhi Transco Limited, which isolates the Grid for power supply for Delhi region in case of the failure of the National Grid connected to Delhi</p> <p>E-linkage of 200 KVKs/ZPDs of ICAR</p>	<p>To provide better internet access to ERNET users by enhancing the technology and capacity of ERNET network. Facilitate collaboration with other research networks through TEIN3.</p> <p>The 'Islanding project' is operational on the radio link network for Delhi Transco Limited.</p> <p>Operational dedicated captive CUG VSAT Network of ICAR with its Hub and NOC at Delhi and VSAT connectivity at 200 KVKs/ZPDs facilitating access and dissemination of information on agriculture to the farming community of the country.</p>	<p>Ongoing Activity</p> <p>On going activity</p> <p>ongoing activity extendable based on MoU.</p>	

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						Continuation of connectivity at Vidya-Vahini Community Informatics Centres in the Schools of Andaman & Nicobar (40 CICs) and Lakshadweep Islands (30 CICs). To setup two high capacity SCPC VSAT links at Kavaratti and Port Blair for NKN project	To impact ICT based education & training in the schools promoting e-Governance and bridging the gap between the mainland and the islands	On going 6 months	Require approval from Dot and transponder space segment from DoS. Delay in above may affect the project.
		Research and Development in the area of Data Communications and its applications			10.00 (proposed)	VSESS: Extending Educational cloud services for more schools IoT: To setup a distributed IoT test bed to support experimentation. WQMS: IoT based	Phase II proposal to connect more number of schools. To build a distributed IoT test bed at ERNET in collaboration with IIT-Bombay, IIT-Madras and IIT-Guwahati To deploy sensors, beacons in the	2015-2017 -- --	Working group has recommended the project. Financial approval is awaited. -do-

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						<p>sustainable water quality management for institutional campus.</p> <p>Capacity Building Creating Training Infrastructure available across the country</p> <p>IoT incubation centre with NASSCOM (subject to IoT Policy approval)</p> <p>Basic level and Network administrator level training on IPv6 to staff of Govt. organisations across India</p> <p>Value Added Services for Education & Research</p> <p>eduroam – the free global wi-fi services</p>	<p>network and integrate with crowd-source data to perform realtime and offline analytics in the cloud.</p> <p>Creating Training Infrastructure available across the country over Internet- Physical infrastructure being setup at Delhi, Chennai & Bangalore</p> <p>The project would provide hands-on training on IPv6 to Govt. staff to enable them to help their organisations move on to IPv6. ERNET will train nearly 200 govt officials.</p> <p>The project enables academicians and researchers to use free wi-fi services in partnering institutions in 60 plus countries worldwide covering more than 10000 institutions worldwide and 80plus in India</p>		<p>Working group has recommended the project. Financial approval is awaited.</p> <p>The project has been approved by DeitY</p>

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I	II	II	III	IV	V	VI	VII	VIII	IX
						for education and research in India			
		Human Resource Development in the area of Networking.				<ul style="list-style-type: none"> IT for Masses: Advanced ICT Training for graduates belongs to SC/ST community at ERNET Chennai in-collaboration with Anna university 	<ul style="list-style-type: none"> Under this project, 400 graduates will be trained in ICT topics like, Advanced Computer Networking, Embedded OS, WSN & IoT, Cloud Computing, Advanced Data Structures & Algorithm Analysis, Multimedia and Android Programming over the period of 2 years. 		
		Digital India Programme under early Harvest Pillar			10.00 (proposed)	<ul style="list-style-type: none"> Setting up of Wi-Fi facility at at two tourist /religious places/monuments under ASI. 	Wi-Fi enabled Area of ASI enabling Wi-Fi Internet access by the visitors/ Guests.		The Proposal has been submitted and is under consideration at DeitY .
					15.00 (proposed)	<ul style="list-style-type: none"> Setting up Model Wi-Fi enabled Campus Network at AIIMS, New Delhi 	Enable Wi-Fi Intranet/Internet access through Wi-Fi enabled devices of doctors, faculty, students, staff, patients/visitors etc. Improvement in productivity, decision making and efficient availability of services on any time- anywhere basis.		-do-
					60.00 (proposed)	<ul style="list-style-type: none"> Setting up Model Wi-Fi enabled Campus Network at five universities i.e. Allahabad University, Pune 	Enable Wi-Fi Intranet/Internet access through Wi-Fi enabled devices of faculty, students, staff, etc. Improvement in productivity, decision making and efficient availability of services on any time- anywhere basis.		DeitY directed to submit the proposal with budgetary for their consideration.

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					2.00 (proposed)	University, NEHU, Shillong, Osmania University, Hyderabad, Utkal University, Bhubaneswar. • Research and PoC in the advance connectivity areas (TV White space, Drones, Baloons).	Research and exploring new advance economical wireless connectivity Technologies enabling Internet access to citizens/communities in underserved, rural, unserved and unreachable areas in India with lower cost broadband wireless access.		Request for provision to be made by DeitY.
		R&D Hardware/ Infrastructure			23.00 (proposed)	construct building for ERNET Regional Centre, Bangalore and set up hardware/ infrastructure	With the approval of Governing Council in Nov'11, ERNET India has purchased 5 acres of land from Karnataka Industrial Area Development Board at a total cost of Rs.9.05 crores to setup ERNET's centre at Bangalore (R&D Lab, office space, Network Point of Presence). It is proposed to construct building for ERNET Regional Centre, Bangalore and set up hardware/ infrastructure for which Grant-in-aid of Rs.23.00 crores is budgeted.		
(v)	Component & Materials Development Programme (including EMDC)	To support infrastructure development and R&D and technology development projects for the development of	0.60	20.00	17.50	To initiate new projects in the area of energy harvesting, magneto dielectric substrate, photonics research and electromagnetic materials. sensors for	Technology for energy storage, EMI shielding, substrate for antenna applications, sensors for marine applications. Improvement in bandwidth of optical communication	March 2016	

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		<p>Electronic Materials at C-MET</p> <p>To support development and initiatives to eradicate the issues related to electronics products affecting the environment</p> <p>To nurture photonic technologies relevant in IT and optical communication as well as develop technologies in the broader application areas of Photonics through sponsored R & D projects</p>				<p>oceanography, multiplexed communication system etc.</p> <p>To complete the on-going projects on solar cell based on CBD techniques, organic based photovoltaic solar cells, solar Cell based on quantum dots, development of photoconducting paste, sustainability & upgradation of (RoHS) lab, MWCNT filled nanocomposites, FBG sensor for railway pantograph, Thulium doped Laser for Medical use, Polymer Nano-composites based PV devices</p> <p>To monitor the progress of on-going projects on graphene supercapacitors for power electronics, Lithium-ion cell/Battery, fuel cell</p>	<p>To fabricate solar cell based on organic and CBD techniques and develop RoHS lab, FBG sensors for Railway applications, thulium doped All-fiber MOPA for medical application etc.</p> <p>To develop E-waste recycling technology for PCB, green energy generation, Thermistors and Laser technology for medical application etc,</p>	<p>March 2016</p> <p>March 2016</p>	

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						using nano functional materials, fiber laser modules, pilot scale production of supercapacitors, demonstration of metal recovery from PCBs			
	C-MET	To support R & D projects for the development of Electronic Materials	-	-	-	Integrated Electronics Packaging <ul style="list-style-type: none"> • Development of LTCC materials and packages • Delivery of specific thin film LTCC packages • Delivery of Mark-1 LTCC magnetic sensors 	<ul style="list-style-type: none"> • Compatibility test of in-house tapes and silver based pastes • preparation of lab infrastructure and installation of Tape caster • Fabrication of specific thin film sensor packages as per specifications • Fabrication of Mark-1 batches of Magnetic sensor and testing at User lab 	March, 2016	
						Nano Scale Materials and Composites <ul style="list-style-type: none"> • In-situ diagnosis of thermal plasma during the synthesis of nano-powders by optical emission spectroscopy (OES) • Preparation of quantum dots • Development of fuel cells using nano materials Development of 	<ul style="list-style-type: none"> • Procurement and installation of OES • Functional operation of OES during the synthesis of Nano-powders of metals • Gram scale synthesis of Q-dot of TiO₂, ZnO, SnO₂, CdS & CdSe using MW reaction technique. • Preparation of noble metal nano particles for fuel cells • Synthesis and characterization of Cathode material (LiCoO₂) and Anode material (Li₄ Ti₅O₁₂) • Purchase and installation of process equipment for battery fabrication • Preparation nano chalcogenides for 	March, 2016	

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						active materials (cathode and anode) Li-ion battery and fabrication of prototype cells <ul style="list-style-type: none"> Nano materials development for photocatalyst applications Development of nano materials for thermoelectric applications 	photocatalytic applications <ul style="list-style-type: none"> Preparation and characterization of Pb and Bi Telluride materials for thermoelectric applications 		
						Ultra high purity materials <ul style="list-style-type: none"> Delivery of high purity Ga and Ge (6N and 13N purity respectively) to DMRL, DRDO 6H and 4H SiC single crystals of 2" dia for DRDO 	<ul style="list-style-type: none"> Procurement of equipment and setting up the lab for preparation of high purity Ga and Ge Realization of the project for higher quantity SiC single crystal preparation, from DRDO 	March, 2016	
						E-Waste management <ul style="list-style-type: none"> Environmentally sound methods for recovery of metals 	<ul style="list-style-type: none"> Procurement of process equipment for recovery of precious metals from e-waste 	March, 2016	E-Waste management <ul style="list-style-type: none"> Environmentally sound methods for recovery of metals
						NABL accredited	<ul style="list-style-type: none"> Implementation of MOU with CPCB 		

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						facilities <ul style="list-style-type: none"> • Services to industrial sector 		March, 2016	
						Materials for Renewable Energy <ul style="list-style-type: none"> • Nanocomposites for solar cells • Nanostructured materials as a Photocatalyst for hydrogen generation • Dev. of graphene super capacitors for power electronics • Dev. & Setting-up of pilot scale production of Aerogel Super capacitor for electronic applications 	<ul style="list-style-type: none"> • Nano structured metal oxides/sulphides for Hybrid as well as SDSSC. • Development of visible light active catalyst for H₂ generation via water splitting in mMole range. • Preparation of graphene super capacitors • Development of infrastructure for super capacitors (pilot plant) 	March, 2016	
						Materials for sensors and Actuators <ul style="list-style-type: none"> • Dev of NTC Thermistors for radiosonde and Meteorological Balloon application • Dev. of thermal sensor based monitoring system for the early 	<ul style="list-style-type: none"> • Preparation of NTC compositions for radiosonde applications • Preparation and testing of thermal sensor probes for breast cancer detection • Development materials for 'green' thermal as well as pressure sensor • Development of Cu doped CdS nanostructured materials for Photoimageable thick film based photosensor. 	March, 2016	

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						detection and screening of Breast Cancer • Development of thermal/pressure/photo sensor			
(vi)	Media Lab Asia (MLA)	To undertake and facilitate Research, Development and deployment activities	-	0.10	-	• 6 projects will be initiated in the following areas: ICT – Empowerment of Differently abled ICT – Healthcare ICT – Livelihood enhancement ICT – Education 4 projects will be completed	Development and Deployment of ICT based models in thrust areas of Media Lab Asia viz. Livelihood enhancement, Empowerment of the Differently abled, Healthcare and education	2 projects will be initiated during 1 st /2 nd quarter 4 projects will be initiated during 3 rd /4 th quarter The projects will be completed as per schedule	
3.	Standardization Testing and Quality Certification Directorate (STQC)	Establishment of Quality Assurance Infrastructure in the country to facilitate quality products & services at par with global standards and practices	7.00	100.00	-	(i) Up gradation of Test and Calibration facilities to cater to state-of-the-art products with emerging technologies. (ii) Revenue target realization.	Allocated budget will be utilized for up gradation of test and calibration facility to meet the demand industry. Revenue of Rs. 56 crore approx. likely to be generated. More than 50 eGov projects will be evaluated.	March, 2016 March, 2016 March, 2016	

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I	II	II	III	IV	V	VI	VII	VIII	IX
						<p>(iii) Maintenance and upgrade of IT test tools and infrastructure.</p> <p>(iv) Providing Test Services by BIS approved STQC labs for safety and EMC.</p> <p>(v) Upgrade testing and Auditing facilities for security of Network, systems, applications and websites.</p> <p>(vi) Strengthening of SPV panels and products testing at two STQC labs.</p> <p>(vii) National Capacity Building in Quality management System, Information Security and Practice Oriented skill based trainings.</p> <p>(viii) Progress of construction activity</p>	<p>Facilitating Regulatory requirements for Compulsory Registration Scheme.</p> <p>Increase in number of testing & auditing job to more than 150.</p> <p>Infrastructure support for quality assurance of SPV products to meet requirements of National Solar Mission.</p> <p>More than 300 training programs to be conducted across India</p> <p>Construction activity of first phase to be completed through CPWD.</p> <p>SC/ST/OBC/women / weaker section of society and unemployed youth of NE region will be benefited in Computer field.</p>	<p>March, 2016</p> <p>March, 2016</p> <p>March, 2016</p> <p>March, 2016</p> <p>March, 2016</p> <p>March, 2016</p>	

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						of STQC Building at Noida. (ix) Human Resource Development by conducting DOEACC 'O' & 'A' level courses in NE region.			
4.	Digital India Programme		-	1586.80	268.90				
(i)	Digital India Programme and Manpower Development Programme for skill in IT	'Visvesvaraya PhD Scheme for Electronics and IT'	-	714.80	-	Target for 5 years: 1500 PhDs for Electronic System Design and Manufacturing (ESDM) Sector (500 Full-time +1000 Part-Time) 1500 PhDs for Information Technology/ Information Technology Enabled Services (IT/ITeS) Sector (500 Full-time +1000 Part-Time) 200 Young Faculty Research Fellowship	To enhance the number of PhDs in the ESDM and IT/ITES Sectors in order to promote innovation and development of new products in these sectors Young Faculty Research Fellowships would increase the attractiveness of faculty positions & future enrolment of PhDs	March 2023	
		"Special Manpower Development				Target for 5 years: Development of 10	Broaden the VLSI Design base in the country by covering more institutions, generating special manpower at B.Tech,	December 2019	"Special Manpower Development

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		Programme for Chips to System Design”				<p>working prototypes of Systems / Sub-system / SoCs</p> <p>70 ASICs development</p> <p>30 FPGA based board level circuits design</p> <p>More than 50,000 specialised manpower in VLSI / SoC / System / Sub-System Designing</p> <p>25-30 IP core development</p> <p>15 Instruction Enhancement Program</p> <p>Prototyping and Siliconization under India Chip Program/ Chip Centre</p> <p>Setup /upgrade VLSI Design Laboratories at 60 institutions</p>	M.Tech and PhD level and bring in a culture of System-on-Chip / System Designing in the country		Programme for Chips to System Design”
		IT Mass Literacy/ Digital Saksharta Abhiyan				52.5 lakh e-literate persons	Enable beneficiaries to use IT and related applications for their livelihood earning and employability	December 2018	

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		(DISHA)							
		Scheme for Financial Assistance to States/UTs for Skill Development in Electronics System Design and Manufacturing (ESDM) Sector/Skill Development in ESDM for Digital India				4.18 lakh skilled persons in ESDM sector	Improvement in employability of the students/ unemployed youth	December 2018	
		Scheme for setting up of Electronics and ICT Academies in the States/ UTs for faculty development				Set up seven (07) Electronics and ICT Academies as a unit in IITs, IIITs, NITs, etc., for faculty/mentor development/up gradation (92,800 nos.)	Improvement in employability of the students (graduates/diploma holders in various streams)	November 2019	
		Development of North - Eastern Region by enhancing the Training/ Education capacity in the IECT Area				Upgradation of six existing centres of National Institute of Electronics and Information Technology (NIELIT) located at Imphal (Manipur), Aizawl (Mizoram), Guwahati (Assam), Shillong	The project would result in enhanced capacity in terms of training/education in IECT sector for the youth of North-Eastern Region. Availability of trained professionals in the IECT area	May 2017	

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						<p>(Meghalaya), Gangtok (Sikkim), Itanagar (Arunachal Pradesh);</p> <p>Upgradation of two existing Extension Centres of NIELIT located at Chuchuyimlang (Nagaland) and Tezpur (Assam);</p> <p>Setting up of ten new Extension Centres of NIELIT at Senapati (Manipur), Churachandpur (Manipur), Dibrugarh (Assam), Silchar (Assam), Jorhat (Assam), Kokrajhar (Assam), Lunglei (Mizoram), Tura (Meghalaya), Tezu (Arunachal Pradesh) and Pasighat (Arunachal Pradesh); and</p> <p>To increase the training capacity from existing 3080 per year to 14400 per year.</p>			
		Setting up of				New NIELIT Centres	Create skilled manpower in the area of	Agartala (July	

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		new Centres of National Institute of Electronics and Information Technology (NIELIT)				at Agartala (Tripura), Ajmer (Rajasthan), Patna (Bihar), Ropar (Punjab), Srikakulam, (Andhra Pradesh),	IECT	2015), Ajmer (March 2016), Patna (October 2017), Ropar (January 2019), Srikakulam (March 2018),	
		Information Security Education & Awareness (ISEA) Project – Phase II				Target for five years: 3.5 lakh students(formal, non-formal), faculty 25,000 Govt. officials Awareness to cover 50% Internet users	Capacity building in the area of Information security to address the human resource requirement in the country Training of Government personnel and professionals from banking and financial sectors. Creation of mass information security awareness	March 2019	
		Capacity building in the areas of Electronic Product Design and Production Technology				Launching various formal and non-formal courses Train 11,515 candidates in five years.	To develop human resource at various levels including Certificate, Diploma, Post Graduate, and Research Professionals with adequate competence levels Upgrade the competence of working professional in Indian Industries and knowledge/ skills of faculty of technical institutions.	April 2017	
		Skill Development in Electronics Hardware (NCPUL)				To conduct one-year Diploma course at 50 select Computer Applications, Business Accounting	Generation of skilled manpower to assemble LED based lighting products and in Repair and Maintenance of Electronics Home Appliances To encourage the usage of LED lighting	September 2016	

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						and Multilingual DTP (CABA-MDTP) Centres of National Council for Promotion of Urdu Language (NCPUL) for 10,000 candidates over a period of 3 years	solution especially in rural markets Promote affordable Electronics Design & Technology targeted towards rural / underdeveloped areas Self employment/ entrepreneurship in Electronics hardware		
		IT for Masses Programme: Empowerment of Women and Development of SC / ST using ICT				To conceive and formulate new projects for empowerment of Women and development of SC / ST	Capacity building of Women, SC, ST through ICT – training / capacity building projects implemented across different States / UTs	March, 2016	
		National Policy on Universal Electronic Accessibility		5		R&D proposals on assistive technology will be supported.	New R&D project proposals will result in developing assistive technology.	New R&D proposals will be considered by the Working Group on Accessibility.	The projected outcomes will depend on receipt of proposal from implementing agencies.
		Setting up the Eduroam services in India		0.571		To set up Education Roaming (EDUROAM) services in India in academic and research institutions.	It is proposed to deploy EDUROAM services in around 150 institutes in the country.	April 2015	
		VSAT		22.57		VSAT connectivity to	60 institutes will be provided 1 Mbps		Subject to

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		Connectivity for Internet/Intranet access in the North-Eastern States of the country.				remote institutes in North Eastern States of the country.	bandwidth for Internet/Intranet access.		approval
		IPv6 Training Program for Government staff		1.22		Training on use and deployment of IPv6 to government staff.	3000 Government staff will be trained on use and deployment of IPv6.	July 2017	
		Establishment of Knowledge Web Repository at State Institute of Encyclopaedic Publications (SIEP), Thiruvananthapuram.				SIEP had developed framework for repository and six volumes of Sarva was digitized. The portal for the repository was developed and tested.	Development of a metadata management system using free and open source software tools like DSpace, setting up of a content registry which can provide persistent identifiers for Malayalam content, the framework to be a distributed one where other content providers like State institute for archives, universities can join in and make the system easier to manage.		Subject to procurement of servers for hosting the content at State Data Centre.
	Digital India	Setting up model Wi-Fi in 5 universities				DeitY shall provide secure Wi-Fi access in 5 universities, namely, Allahabad University, NEHU, Osmania University, University of Pune and Utkal University.	Wi-Fi hotspots would enable students, faculty & staff on campus to access Internet, information & knowledge resources on any-time-anywhere basis at most economical cost.		Proposals for setting up Wi-Fi in these universities are awaited.
		Wi-Fi at All India Institute of Medical Sciences(AIIMS) New Delhi		26.32		Setting up Wi-Fi enabled campus network at All India Institute of Medical Sciences(AIIMS) New Delhi.	Setting up Wi-Fi at All India Institute of Medical Sciences (AIIMS) as Proof-of-Concept which can be replicated at other medical institutes.		The proposal shall be put up for approval.
	E-learning					Fresh project			Subject to

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						<p>proposals for e-Learning in development of tools & technologies will be invited in the following areas:</p> <ul style="list-style-type: none"> • Development of a framework for qualitative online testing; • Development of a framework/standard for quality assessment of e-Learning content; • Hosting of educational content on National Knowledge Network; • Development of Simulations, Interactive Experiments, Plug-in into experimental hardware and Measuring Devices (a mix of hardware and software); • New tools and applications to provide seamless 			receiving the project proposals in these areas

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						<p>access to education using low cost smart phones and tablet PCs; and</p> <ul style="list-style-type: none"> Learning Analytics i.e. measurement, collection, analysis and reporting of data about learners and their contexts. <p>Afterwards, these projects will be placed before Working Group for deliberations/ recommendations in order to get approval by the competent authority.</p>			
						<p>Fresh new Proposals (Recommended by Working Group)</p> <p>Rollout of OLABs in CBSE Schools across the country.</p>	<ul style="list-style-type: none"> To create the infrastructural and support framework for making OLABs (online labs for schools) accessible and usable by students and teachers across India. This includes level 1 and 2 support, toll free numbers, etc. To train approximately 30000 teachers across India in effective use of OLABs resources to enhance the teaching learning experience. 	To initiate new projects during 2015-16 (if approved)	

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						<p>Fresh new Proposals (To be placed before Working Group)</p> <p>Design and development of generic open source P2P framework for potential use in P2P academic and e-learning management systems.</p>	<ul style="list-style-type: none"> To design and develop P2P framework. To generate the specification document, and at least one implementation of framework in JAVA, which can be used by application developers for making P2P applications. To implement Brihaspati-4 p2p LMS system using this framework. 	To initiate new project during 2015-16 (if approved)	Subject to recommendation of Working Group
						<p>Ongoing projects</p> <p>Design and Development of Context Aware Mobile assisted Augmented Reality Framework for Learning Environment</p>	<ul style="list-style-type: none"> Framework to create augmented reality based e-learning applications for students including design and develop following 3 pilot applications based on the framework: - <ul style="list-style-type: none"> a. Augmented Reality based Board. b. Augmented Reality based book. c. Augmented Reality based game. To conduct knowledge dissemination program through trainings and workshops. <p>Enhancing OLABs phase 1 experiments for</p>	<p>May 2015</p> <p>Likely to be</p>	

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						<i>Online Labs (OLabs) for school experiments - Phase 2</i>	deployment on Android. To be extended for other subject of class 9 and 10. Physics, Chemistry, Biology, Maths for class 11 and 12 will also be covered. Enhancement of the framework for multi-lingual support. M-Learning enhancements to framework to support OLabs on Android tablets.	extended up to Sep. 2015	
						<p>Online Assessment and Evaluation System (OAES) for National Level Certification Examinations</p> <p>MedSim – eLearning platform for Medical Simulation</p> <p>Development of Personalised and Performance based E-Learning tool for existing E-resources</p> <p>Setting up ICT E-Learning Centres in 204 schools in Srikakulam district of Andhra Pradesh.</p>	<p>Initiation and development of tool for OAES together with pilot deployment.</p> <p>To build Medical elearning platform (Medsim) that supports Medical Simulations in two broad areas. Pilot study will be done at two Government Hospitals.</p> <p>To Estimate the online learners' proficiency. To improve search engine performance in order to increase user (online learners) satisfaction. This will be integrated with Brihaspati LMS, an open source LMS</p> <p>To set up e-Learning ICT centres in 204 high schools in rural and tribal area of district Srikakulam to integrate ICT for learning and teaching to improve learning outcomes of rural and tribal children.</p>	<p>June 2015</p> <p>Likely to be extended up to Sep. 2015</p> <p>February 2016</p> <p>July 2016</p>	

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I	II	II	III	IV	V	VI	VII	VIII	IX
						<p>Deployment and Management of Brihaspati-3 services over NKN for Indian Academia</p> <p>Enhancing the outreach of Electronics System Design and training through e-Learning</p> <p>ICT based Framework to enhance the teaching and learning experience in large Classroom</p>	<p>To make installations on the servers deployed in NKN network and to maintain and upgrade them in order to provide services of Brihaspati-3 and its upgraded versions to the academic institutes who are subscribing to NKN connectivity. All other services developed in open source which are being integrated with Brihaspati-3 will also be deployed and managed</p> <p>To develop low cost educational kits and provide the training in the following areas:</p> <ul style="list-style-type: none"> - • Embedded System Design (ESD) • Designing using FPGA. • Digital Signal Processing <p>Development of framework and interface for the following: -</p> <ul style="list-style-type: none"> ▪ to deliver the lecture on the diverse portable computing devices carried by the students. ▪ for interaction between the teacher and the students both in the class and outside the class for examination management (conduct and evaluate short exams/ quizzes/ home 	<p>February 2017</p> <p>April 2016</p> <p>August, 2016</p>	

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I	II	II	III	IV	V	VI	VII	VIII	IX
							assignments)		
	Internet Governance under manpower development scheme	Awareness on Internet Governance				<ul style="list-style-type: none"> Facilitate Internet Governance Outreach to student community. Enable basic Internet Governance Capacity Building Help to identify and encourage candidates for fellowships in area of Internet Governance. 	To enhance the knowledge on Internet Governance in respect of Technology, public policies and its potential.	March 2016	
		Encouraging greater participation in Internet Engineering Task Force (IETF) Working groups and Engagement with Internet Society (ISOC)				<ul style="list-style-type: none"> Create and foster focus groups to work on specific technical issues of Internet concerning Internet Standards to create greater awareness and participation including academia, Industries, Governments, students and youths for encouraging them to participate in 	<ul style="list-style-type: none"> Scholarship and fellowships for students to encourage participation in IETF activities Strengthen and have regular engagement with ISOC Chapters to promote the open development evolution and use of Internet for benefit of all people throughout the world. 	March 2016	

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						different chapter of ISOC related to standards, public policy, and education.			
		DNS centre of excellence- CDAC, IISC Bangalore				The centre will create capacity in the area of DNS security, an expertise which is not currently present in the country. The Centre of Excellence will build competent manpower pool in Centre of Excellence; develop curriculum, content and conduct training of various durations for different stakeholders to increase awareness and knowledge dissemination.	- To build internal capacity and competency in DNS and related areas of Internet Security and Carry out research in areas related to the security, stability and resiliency of the DNS.	March 2016	
		Formulating Guidelines for allocation of GOV.IN				Formulating Guidelines for allocation of GOV.IN by NIC to various Governmental institution which cover Categories of institutions, Authentication process, Fee, Application process,	To easily delegate GOV.IN to Governmental institutions.	March 2016	

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I	II	II	III	IV	V	VI	VII	VIII	IX
						safeguards and Security issues etc.			
		Restructuring and Strengthening of NIXI				To create a suitable model by which Content providers gets connected to NIXI, which will be an alternate model for wider participation of ISPs, Telcos and content providers.	To bring out a framework for an arrangement for content providers to get connected to NIXI.	March 2016	
(ii)	Electronic Governance	National e-Governance Plan approved in 2006 has made a steady progress through Mission Mode Projects(MMPs) and Core ICT Infrastructure but a lot more thrust is required to ensure effective progress in electronics manufacturing and e-Governance in the country to promote inclusive growth that covers electronic	-	450.00	-	Centre of Excellence for eGov Standards and Open Technology <ul style="list-style-type: none"> • Preparation and notification of OSS Policy • Publishing of Interoperability Framework for e-Governance (IFEG) • Completion of domain MDDS for Education, Urban Development, Agriculture, Panchayati Raj, Health and Drinking water & sanitation • Develop & notify more Technology Standards in Interoperability 	<ul style="list-style-type: none"> • Policy on OSS notified • IFEG document • Domain MDDS documents for these domains • 25 more technical standards notified • Additional standards for date & age for Demographic MDDS • Document on Keyboard layout Standards. 	31.03.2016 31.03.2016 31.03.2016 31.03.2016	Approval by the Cabinet Lack of interest by domain owners Non readiness of industry for new standards.

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I	II	II	III	IV	V	VI	VII	VIII	IX
		services, products, devices, manufacturing and job opportunities. India in 21st Century must strive to meet the aspirations of its citizens where government and its services reach the doorsteps of citizens and contribute towards a long-lasting positive impact. To transform India into a digitally empowered society and knowledge economy, Government of India has approved the Digital India programme. Digital India is an umbrella programme to				<p>Framework for e-Governance (IFEG)</p> <ul style="list-style-type: none"> • Develop & notify few additional standards for Demographic MDDS • Develop & notify Keyboard layout Standards. • Revision of eSAFE document. • Set up Centre of Excellence for eGov Standards • Organize 5 workshops on MDDS/ OSS/ IFEG/ Standards • Preparation and notification of Open API policy • Approval of Cabinet for mandating Standards 	<ul style="list-style-type: none"> • Updated eSAFE document • Centre of Excellence for eGov Standards • 5 workshops to be organized • Policy on Open API notified • Standards to be mandatory 	<p>31.03.2016</p> <p>31.03.2016</p> <p>31.03.2016</p> <p>31.03.2016</p> <p>31.03.2016</p>	<p>Resistance by industry</p> <p>Approval by the Cabinet</p>
						<p>State Data Centres (SDC)</p> <ul style="list-style-type: none"> • State Data Centre (SDC), a scheme approved by the Government in January 2008 to set up Data Centres in all 	<ul style="list-style-type: none"> • Operationalization of SDCs • Utilization of more than 50% of the SDC Infrastructure • Make SDCs cloud enabled 	<p>Implementation of SDCs in 4 States/UTs (Himachal Pradesh, Punjab, Dadra Nagar Haveli and Daman &</p>	<p>The factors at the State level which may lead to delay in the execution of the project are:</p> <ul style="list-style-type: none"> • Delay in identifying,

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I	II	II	III	IV	V	VI	VII	VIII	IX
		prepare India for a knowledge based transformation. It weaves together a large number of ideas and thoughts into a single, comprehensive vision so that each of them is seen as part of a larger goal. The focus of Digital India programme is on being transformative to realize - IT (Indian Talent) + IT (Information Technology) = IT (India Tomorrow) and on making technology central to enabling change. This programme will pull together many existing schemes. These schemes will be				<p>States/UTs. DPRs for 33 States/UTs have been approved and 2 UTs (Delhi and Chandigarh) opted out of the Central SDC Scheme.</p> <ul style="list-style-type: none"> • 23 SDCs have been declared operational (Tamil Nadu, Puducherry, West Bengal, Andhra Pradesh, Meghalaya, Karnataka, Manipur, Orissa, Sikkim, Haryana, Kerala, Maharashtra, Gujarat, Tripura, Rajasthan, Nagaland, Uttar Pradesh, Andaman & Nicobar, Madhya Pradesh, Lakshadweep, Chhattisgarh, Jammu & Kashmir and Mizoram). • The implementation of SDC is in progress in 4 States/UTs (Bihar, Himachal Pradesh, Dadra & Nagar Haveli and 		<p>Diu) is expected to complete by March 2016.</p> <ul style="list-style-type: none"> • 2 more States (J&K and Mizoram) are expected to utilize more than 50% of the SDC Infrastructure. • 7 more (States/UTs) are expected to be cloud enabled by March 2016. 	<p>or change in the site, and handing over the site to the selected Bidder.</p> <ul style="list-style-type: none"> • Delay in provisioning of raw power for the SDC. • Delay in awarding Letter of Indent and Contract to the selected Bidder. • Delay in the completion of the Final Acceptance Test.

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		<p>restructured and re-focused and will be implemented in a synchronized manner. The programme has been envisaged to be coordinated by the Department of Electronics and Information Technology (DeitY) and implemented by the entire Government.</p> <p>The vision of Digital India is centred on three key areas, viz., (i) Infrastructure as a Utility to Every Citizen (ii) Governance and Services on Demand and (iii) Digital Empowerment of Citizens. Digital India aims to provide the much needed thrust to</p>				<p>Daman & Diu)</p> <ul style="list-style-type: none"> • 1 State (Assam) is in the stage of contract sign-off with the DCO. • 3 States (Punjab, Jharkhand and Goa) are undergoing Bid process management for selection of a DCO. • 2 States (Uttarakhand, Arunachal Pradesh) are in the process of finalizing their SDC RFPs to initiate a competitive bid process. • 20 States are utilizing more than 50% of the SDC Infrastructure. • 3 States (Maharashtra, Haryana, Madhya Pradesh) are Cloud enabled. • Implementation of Cloud is in progress in 4 States/UTs (Kerala, 			

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I	II	II	III	IV	V	VI	VII	VIII	IX
		the nine pillars of growth areas, viz., (i) Broadband Highways (ii) Universal Access to Mobile Connectivity (iii) Public Internet Access Programme (iv)				Meghalaya, Lakshadweep, Chhattisgarh). • 3 States (Gujarat, Rajasthan, West Bengal) are in the bid process and remaining States/UTs are finalizing their Cloud RFPs.			
		e-Governance – Reforming Government through Technology (v) e-Kranti - Electronic Delivery of Services (vi) Information for All (vii) Electronics Manufacturing – Target NET ZERO Imports (viii) IT for Jobs and (ix) Early Harvest Programmes.				<u>Common Services Centres (CSCs)</u> • Rollout of CSCs in all 36 States as per the mandate of CSC Scheme. • To achieve 70% transacting CSC at least in 26 States/UTs (consolidated). • Conduct study and analyze values of stakeholder, mid-term correction, funding guidelines for future CSC and standardization of services. • Enhancing the Online Monitoring Tools (OMT).	• Operationalised 100% CSCs in 36 States/UTs. • 70% transacting CSCs at least in 26 States/UTs (consolidated). • Advises/guidelines would be issued in line as mid-course correction. • Online Monitoring Tools (OMT) to monitor and analyse CSC activities, connecting various service portal, single sign on. Achieve transaction on eTaal through CSC	The projected deliverables would be achieved by March 2015.	CSCs roll out has been delayed due to non-availability of broadband connectivity and power, and left wing extremism. Further, termination of contracts with Private Service Centre Agencies, due to non-performance has also impacted the operationalization of CSCs.

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						<ul style="list-style-type: none"> Adding bouquet of services. 			Finally, lack of e-services has impacted the sustainability of CSCs.
						<p>e-District</p> <ul style="list-style-type: none"> State Project Management Unit (SPMU) deployment in all 36 States / UTs. 100% District e-Governance Societies (DeGS) to be formed in all 36 State / UTs. 100% hiring of e-District project managers in all 36 States /UTs. Selection of Implementing Agencies in all 36 States/ UTs. Approval of revised DPRs of Andhra Pradesh and Telangana. 	<ul style="list-style-type: none"> Completion of selection of SI in remaining States/UTs Launch of e-District Services in remaining non-pilot districts. 	By March 2016, e-District project will be implemented in remaining non-pilot districts.	The e-District MMP is to be implemented at the State level. The State Governments will need to identify services to be delivered under the e-District MMP, undertake BPR and computerization and thereafter ensure delivery of these services to the citizens.
						<p>Establishment of SWAN</p> <ul style="list-style-type: none"> SWAN proposals from 34 States/UTs 	<p>The current status is as under:</p> <ul style="list-style-type: none"> Andaman & Nicobar Islands has issued 	All SWANs are expected	State Government would leverage

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						<p>have been approved and SWANs have been made operational in 34 States. The States are utilizing the core infrastructure of SWAN for providing the closed user connectivity to various Government offices in the State. These offices access their applications through SWAN in secured environment hosted at State Data Centres (SDCs).</p> <p>SWAN integration with NKN</p> <ul style="list-style-type: none"> • SWAN has been integrated with NKN in 29 States/UTs, namely Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chandigarh, Chhattisgarh, Delhi, Goa, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, 	<p>Letter of Intent to the Network Operator.</p> <ul style="list-style-type: none"> • In J&K, re-bid process is under way. 	<p>to be operational by September 2016.</p>	<p>the SWAN as a core network infrastructure progressively to provide G2G services and later G2C services (even below Block Hqrs level. Then, last mile connectivity would be made available, which is presently confined to the location of the offices, providing these services any where anytime in the entire State/UT.</p>

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						<p>Maharashtra, Meghalaya, Odisha, Puducherry, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, Mizoram, Nagaland and West Bengal.</p> <p>• NKN integration with SWAN at district level has also been initiated and at present 125 districts in eight States, namely Chhattisgarh, Kerala, Madhya Pradesh, Assam, Manipur, Puducherry, Jharkhand and Rajasthan have been integrated with NKN.</p> <p>Bandwidth Utilisation</p> <p>• 27 States/UTs are utilizing more than 60% of bandwidth of the existing link capacity. These are Andhra Pradesh, Bihar, Chandigarh, Chhattisgarh, Delhi, Goa, Gujarat,</p>			

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						<p>Haryana, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Lakshadweep, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Puducherry, Punjab, Sikkim, Tamil Nadu, Telangana, Tripura, Uttarakhand, Uttar Pradesh, and West Bengal.</p> <p>Monitoring of SWAN by TPA</p> <ul style="list-style-type: none"> To monitor the performance of SWANs, the Department has mandated positioning of Third Party Auditors (TPAs) in the States/UTs. As on date, 29 States, i.e. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Dadar & Nagar Heveili, Daman & Dui, Gujarat, Haryana, Himachal Pradesh, 			

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						Jharkhand, Karnataka, Kerala, Lakshadweep, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Puducherry, Punjab, Rajasthan, Tamil Nadu, Tripura, Uttarakhand, Uttar Pradesh and West Bengal have empanelled the TPAs for monitoring the performance of the SWANs in the respective States/UTs. Remaining States/UTs are in the process of empanelment of TPA.			
						<p><u>State Portal (SP), State Service Delivery Gateway (SSDG) & Electronic Forms</u></p> <ul style="list-style-type: none"> Facilitating Services through CSC/Online by enabling Implementation of State Portal, SSDG, e-Form Application and Gap Infrastructure. 	<ul style="list-style-type: none"> Provide easy, anywhere and anytime access to Government services (both informational & transactional). Enable integrated service delivery by Online/Offline filing of application at CSCs/self through State Portals. Intelligent routing of forms to the 	<p>31.03.2017</p> <p>31.03.2017</p>	<p>Delay at the State/UT level in finalization of Contract, Agreement, and various deliverables of the project.</p>

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I	II	II	III	IV	V	VI	VII	VIII	IX
						<ul style="list-style-type: none"> The scheme forensuring delivery of services through CSC/Online by enabling the SP, SSDG, e-Form Application implementation and gap infrastructure under NeGP has been approved with a total outlay of Rs. 300 crore. It is envisaged that SP along with SSDG will be developed and implemented so that citizens are provided with outlets where they can access the services under a single interface mechanism in the form of the Portal. Proposal approved for 33 States/UTs. 31 States/UTs have floated the RFP for the selection of the Implementing Agency for the project. 	<ul style="list-style-type: none"> destination field office by SSDG. Enable assured electronic delivery, acknowledgement and status tracking of application. Reducing number of visits of citizens for availing the services. Reducing administrative burden and service fulfillment time & costs for the Government, Citizens & Businesses. Reducing direct interaction of citizen with the Government and encourage 'e'-interaction and more efficient communication through portal. e-Repository of Government Information and services with a standard-based messaging switch and provide seamless interoperability and exchange of data across departments. 	<p>31.03.2017</p> <p>31.03.2017</p> <p>31.03.2017</p> <p>31.03.2017</p> <p>31.03.2017</p>	

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I	II	II	III	IV	V	VI	VII	VIII	IX
						<ul style="list-style-type: none"> • 2 States/UTs are in process signing Contract with the selected Agency. • 10 States/UTs are in the implementation phase. • 23 States have gone live with 459 services. 	MIS reporting at the State level.	31.03.2017	
						<p><u>GI Cloud (MeghRaj)</u></p> <p>1. NIC National cloud</p> <p>a. Streamlining the process of cloud registration and onboarding of departments.</p> <p>b. Setup a monitoring and reporting mechanism</p> <p>c. Define tariffs and payment models for services consumed by departments</p> <p>d. Define SLAs and setup operational guidelines</p>	<p>a. Guidelines for easy onboarding of Departments</p> <p>b. To bring on board approx. 100-120 departments</p>	31.03.2016	Unforeseen

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						<p>2. Cloud Management Office (CMO): responsible for preparation of process documents, policies, guidelines, templates, identification of relevant standards for GI cloud, empanelment and accreditation of cloud service providers, trainings, workshops and handholding support for user departments adopting cloud.</p> <p>a. Approval of proposal submitted by NISG for RFP preparation.</p> <p>b. Preparation of RFP for selection of CMO Agency/Agencies.</p> <p>c. Review and Approval of RFP.</p> <p>d. Bid Evaluation and selection of agency/agencies.</p>	<p>a. Approval of proposal by NISG, Preparation, Approval of RFP by DeitY and Publishing RFP for CMO.</p> <p>b. Onboarding of selected agency/agencies as CMO.</p>	<p>31.07.2015</p> <p>31.03.2016</p>	<p>delays in evaluation and selection process of agency/agencies for CMO</p>

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						<p>3. eLocker: Envisaged as a part of Digital India vision, eLocker is an ecosystem with collection of repositories and gateways for issuers to upload the documents in the digital repositories, requesters to access the documents and a digital locker space for each resident to access his/her documents from the repositories or upload legacy documents.</p> <p>a. Planning and implementation for launch of eLocker system.</p> <p>b. Pilot implementation.</p> <p>c. National rollout (based on proposal submission by CDAC or evaluation and selection of implementation agency through</p>	<p>a. eLocker system launch and Pilot rollout</p> <p>b. National rollout</p>	<p>30.06.2015</p> <p>31.03.2016</p>	

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I	II	II	III	IV	V	VI	VII	VIII	IX
						RFP).			
						<p><u>Rapid Replication of Applications</u></p> <ul style="list-style-type: none"> Proposals on rapid replication of 5 applications have been approved by DeitY. The Applications are e-Pass of CGG Andhra Pradesh, XLN from NIC Gujarat, e-Hospital from NIC Tripura, Meeseva from DIT Andhra Pradesh, and HRMS from NIC, Himachal Pradesh. 3 applications, namely, XLN, HRMS and e Hospital have been productized and work is in full swing for customisation and productisation of remaining applications by the owner States as per the requirements of the seeker States. In order to provide efficient delivery of services, the applications are envisaged to be hosted on Cloud at a later 	Implementation of Rapid replication for 20 applications.	31.03.2016	<p>The factors at the State level which may lead to delay in the execution of the project are:</p> <ul style="list-style-type: none"> Delay in Data Digitization by Jharkhand. Delay in Data Digitization by Jharkhand Frequent changes of requirements by seeker States may delay implementation Delay may happen due to the readiness of the seeker States in integration of components.

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						stage.			
						<p><u>Awareness & Communications</u></p> <p>1. Rural Outreach Programme for 3000 CSCs.</p> <p>2. Mass media campaign (TVC/Radio Sponsored programme/TV Series) for brand building.</p> <ul style="list-style-type: none"> • TV Series to be on air on DD National, DD Bharati & DD Urdu. • TVC translation and broadcast. • Radio Sponsored Program being produced by NFDC. <p>3. National Conference on e-Gov in partnership with DARP&G.</p> <p>4. University level workshops-</p>	<p>To spread awareness at grassroot level covering population of approx 2 lakh citizens.</p> <p>To spread mass awareness through Electronic Media</p>	<p>31.03.2016</p> <p>31.03.2016</p> <p>31.01.2015</p> <p>31.03.2016</p>	

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						<p>University of Hyderabad, Calcutta University, Himachal Pradesh University and Central University of Jammu.</p> <p>5. Exhibitions/Seminars by external agencies (a) DeitY/ NeGD supported & participated in 3 exhibitions (b) Institutional/Logo/ Financial support given to 9 agencies for organization of national & international conference/seminars/workshops.</p>		31.03.2016	
						<p><u>e-Pramaan</u></p> <p><u>For Level 3& 4</u></p> <ul style="list-style-type: none"> • Development and Implementation of Service / Module for Integration. • Testing and deployment (including STQC Certification). • Guidelines for e- 	<p>For Citizens:</p> <ul style="list-style-type: none"> • Single Window Access. • Secure Communication. • Strong Authentication. • Mutual Authentication for websites. • Digital Signing of documents on Aadhaar based e-KYC. <p>For Departments:</p> <ul style="list-style-type: none"> • Saving cost, time and other resources. 		

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						Pramaan integration <ul style="list-style-type: none"> • Fraud Management for e-Pramaan and ASA. • Awareness programmes for Government Agencies & Citizens. • Integration of e-Pramaan and ASA services with Government Departments. • Data Centre and Disaster Recovery set up for e-Pramaan. • Development of e-Sign Service. • Operation and Maintenance of e-Pramaan and ASA services. Deliverables: <ul style="list-style-type: none"> • Launch of Level 3 and 4 Authentications as a Service. • Development of API's for Level 3 and 4 for integration of the authentication 	<ul style="list-style-type: none"> • Obviates the need of departments being AUA • Provide ASA services. • Centralized AUA/ASA service – so implementation issues, reporting, fraud monitoring etc will be handled at one place. • Authentication as a Service. • Based on well accepted industry standards and protocols. • Service can go for customized authentication chaining. 	31.03.2016	

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I	II	II	III	IV	V	VI	VII	VIII	IX
						<p>components with Government applications.</p> <ul style="list-style-type: none"> • Web interface for departments and users to enlist and register respectively on e-Pramaan for Level 3 and 4. • On Boarding of 5 departments to avail C-DAC's ASA services. • Integration with 2 Departments to avail e-Pramaan Services. • 2 Awareness Programmes for Government agencies. • PoC on Fraud Management. • National Rollout of e-Sign service. 			
						<p>Capacity Building Scheme</p> <ul style="list-style-type: none"> • The CBMC facilitated the deployment of 261 professionals in 36 States & UTs and 8 orientation training programmes for them. • Various training programs, workshops 	<ul style="list-style-type: none"> • The Capacity Building Scheme Phase II will be implemented after completion of existing scheme in January 2015. • Approval of Project for setting up of for e-Governance Academy. • Existing trainings to be continued, to cover officers at all levels and new 	<p>31.03.2015</p> <p>31.03.2015</p>	<ul style="list-style-type: none"> • Difficulty in recruiting persons with requisite skill sets due to limited capacities in market and in Government.

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						<p>and meets have been regularly conducted under Capacity Building scheme e.g.</p> <p>(a) 32 Leadership Meets for Ministers/MLAs and senior government officials have been conducted covering 1787 political and policy level officials</p> <p>(b) Specialized Training for e-Governance Programme (STeP) of courses in e-Governance specifically in the areas like government process reengineering, business models & PPP, project management, regulatory framework for e-Governance, technology management etc. Till date 287 training programs have been conducted covering 8254 participants across 36 States/UTs</p> <p>c. Thematic</p>	<p>programmes to be introduced.</p> <ul style="list-style-type: none"> • Training programmes through e-learning mode to be carried forward on a larger scale. • Train the Trainer programs to be conducted. • Localization & Customization of trainings content to be done. • A learning management system to be developed and deployed. • A Knowledge Management System to be developed and deployed. 	<p>31.03.2016</p> <p>31.03.2016</p> <p>31.01.2016</p> <p>31.01.2016</p> <p>31.03.2016</p> <p>31.03.2016</p>	<ul style="list-style-type: none"> • Recruitment & Training Programmes require active participation from the States/UTs. • Identification of the right persons by the State/UT and relieving them for e-Governance trainings.

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						<p>Workshops to share best practices and to create a platform for cross-learning. NeGD has also conducted 5 domain specific thematic workshops namely capacity building & change management, technology management, RFP toolkit, Detailed Project Report (DPR) preparation & evaluation and Cyber Security.</p> <p>d. Chief Information Officers (CIO) program for Chief Information Officers from central line ministries and States. Eight training programmes were approved by DeitY. In FY 2014-15, 4 programs have been conducted covering 81 participants from central line ministries and States.</p> <ul style="list-style-type: none"> • A Knowledge Management 			

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I	II	II	III	IV	V	VI	VII	VIII	IX
						<p>collaboration portal with an active community of more than 1100 members is currently being managed at www.mynegp.com. It is an active forum for discussions, information sharing and announcements and is engaging the community of SeMTs, e-Governance practitioners (government officers) and NeGD employees.</p> <ul style="list-style-type: none"> • CB scheme phase-II is under approval. 			
						<p><u>World Bank assisted “India: e-Delivery of Public Services” Project</u></p> <ul style="list-style-type: none"> • A total of 44 projects with a total outlay of Rs. 706.38 crore have been considered under e-Bharat scheme for funding assistance. • A total of 39 projects amounting to Rs. 484.37 crore have been approved till date. Funds for 33 	<ul style="list-style-type: none"> • DeitY proposes to use this support for funding various e-governance initiatives of GoI and States/UTs in the broad areas of policies, human resources, technology, project development and projects. • 6 more Performance Review Steering Groups (PRSGs) for 44 approved projects. • Facilitating approval of 5 projects. • Release of funds for 11 projects. • Monitoring of approved projects. 	<ul style="list-style-type: none"> • Rs. 100 crore may be released for some of the approved projects by end of March 2015. <p>31.03.2016</p>	<p>Following risks have been envisaged:</p> <p>(a) Delayed response of State on queries/ document sent by DeitY.</p>

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I	II	II	III	IV	V	VI	VII	VIII	IX
						<p>projects have been released to the implementing agencies in various States/UTs till date.</p> <p>In addition to above,</p> <ul style="list-style-type: none"> DeitY has identified some projects which may be considered as national initiatives as they are cross cutting in nature such as Project for Election Commission of India, Integrated Dairy Management System of Tamil Nadu and e-Legislature project for Andhra Pradesh & Himachal Pradesh. DeitY has also identified projects tjhat may be considered as pilot projects for national Mission Mode Projects in the respective domains, namely, e-HMS & Supply Chain Management for Drug warehouse, Andhra Pradesh and e-Gov 		<p>31.03.2016</p> <p>31.03.2016</p> <p>31.03.2016</p>	<p>(b) Delay in approval process at DeitY.</p> <p>(c) Delay in getting NoC from concerned Ministry.</p> <p>(d) Delay in Utilization Certificates for approved projects.</p>

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I	II	II	III	IV	V	VI	VII	VIII	IX
						<p>initiatives for Education Department, Himachal Pradesh.</p> <ul style="list-style-type: none"> • DeitY has approved 6 projects under rapid replication initiative, namely, two for ePASS, XLN, eHospital, eHRMS, Mee Seva. • Some projects have been identified to be developed as products that will be made available on the e-Gov Appstore for implementation in other States. These projects are: <ul style="list-style-type: none"> (a) Integrated Weavers Management System (IWMS), Tamil Nadu. (b) Mobile-Based Services for Department of Tourism, Goa. (c) Integrated Dairy Management System of Tamil Nadu. (d) e-Legislature project for Andhra Pradesh & Himachal 			

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						Pradesh.			
						<p><u>eSangam (Formerly National Service Delivery Gateway (NSDG))</u> eSangam is a middleware infrastructure acting as a standards based routing and message switch, de-linking backend departments from front-end service access providers. It facilitates standards based interoperability and integration to existing and new e-governance applications.</p>	<ol style="list-style-type: none"> 1. Integration with various e-Governance applications in order to bring more services onboard eSangam. 2. eSangam II : Technical infrastructure and functionality enhancement is proposed . 		Readiness of the Departments for the interoperability and data sharing is a likely risk factor.
						<p><u>Mobile Seva (Mobile Governance) Initiative</u> Mobile Seva has been developed by DeitY as the core infrastructure for all Government Departments and agencies in the country for enabling the availability of public services through mobile devices. Mobile Seva</p>	<ul style="list-style-type: none"> • To integrate Government departments and agencies at central, state and local levels with the Mobile Seva platform. • Enhancement in number of services available to citizens and businesses over Pull SMS. • Increase in number of live m-apps on Mobile Seva AppStore. • To ensure seamless interoperability of 		Delays could occur in identification of mobile based public services by the Central and State Government departments and agencies, in developing

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I	II	II	III	IV	V	VI	VII	VIII	IX
						enables the integration of the mobile platform with the common e-Governance infrastructure consisting of State Data Centres (SDCs), State Wide Area Networks (SWANs) and State and National Service Delivery Gateways (SSDG/NSDG). It enables a Government department to integrate both web and mobile based services seamlessly and enhances the access to electronic services tremendously due to the very high penetration of mobile phones, especially in rural areas. It provides all possible mobile based channels for delivering services, such as SMS, USSD, IVRS and mobile applications (apps). Availability of government-wide shared infrastructure	services and implementation of short and long codes for public services across multiple service providers.		suitable applications for them, and in integrating them with the MSDG.

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I	II	II	III	IV	V	VI	VII	VIII	IX
						and services enable rapid development and reduced costs for the departments in rolling out electronic services.			
						<p><u>Localization Projects Management Framework</u></p> <ul style="list-style-type: none"> • To provide surface localization to MMPs - Surface localization plug-in for end-user as well as a translator's plug-in for improving translation by the MMP completed and made available on the LPMF portal (www.localization.gov.in) • Development of an online framework for localization of websites and applications under MMPs. • Gap analysis to evolve localization best practices & guidelines. • Development of 	Surface localization of 12 URLs of 8 different MMPs was completed till 31 st December, 2014 in 6 languages (Hindi, Bangla, Gujarati, Malayalam, Marathi and Punjabi.) The remaining 3 URLs out of the 15 are to be completed.	28.02.2015	<ul style="list-style-type: none"> • Extent of translation using surface localization plug-across different websites do not have a uniform pattern. • Various challenges faced during translating pdf documents, such as scanned pdfs, retention of format of original pdf after translation, etc.

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						<p>standard interfaces for localization tools, transliteration and machine aided translation, etc. - The translator's plug-in uses TDIL's Machine Translation systems for spewing out suggestions for translation of the given word/sentence.</p> <ul style="list-style-type: none"> To leverage TDIL research outcomes. <p>Assist MMPs in designing RFPs to include specifications related to localization standards & best practices - Seven RFP documents received for vetting were audited with respect to localization specifications & standards.</p> <ul style="list-style-type: none"> Training to system integrators & application developers on localization of MMP web portals & applications - 8 training and 	To conduct 2 more workshops.	31.03.2015	

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I	II	II	III	IV	V	VI	VII	VIII	IX
						workshops have been conducted for MMPs, system integrators and developers till 31.12.2014.			
						<p><u>Electronic Transactions Aggregation and Analysis Layer (e-Taal)</u></p> <p>e-Taal is a web portal developed by NIC for aggregation and analysis of e-Transaction statistics of Central and State level e-governance projects, including Mission Mode Projects. It receives e-transaction statistics from web based applications periodically on near real time basis and presents status on actual utilization of various applications running at various locations. It also presents a quick analysis of transactions counts in</p>	<p>Approval of e-Taal 2.0</p> <p>Development of e-Taal 2.0</p>	<p>31.03.2015</p> <p>31.03.2016</p>	<p>Efforts have been made by DeitY to build web services of States for various applications with e-Taal.</p>

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						a tabular form as well as a graphical form to give a quick view of the category and number of transactions done through e-governance projects. e-Taal provides visibility for the national / state level e-governance services.			
						<p><u>Programme on enabling all schools with virtual classrooms</u></p> <p>Government has undertaken a new initiative on “Enabling all schools with Virtual Classrooms” as learning support services including information and communication technology (ICT) enabled training, teaching and assessment services. The funds earmarked for the FY 2014-15 is Rs. 100 crore for</p>	Implementation of virtual classrooms in 3500 schools and 50 DIETs.	31.03.2016	

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						implementation for the pilot States of Himachal Pradesh, Gujarat, Rajasthan, Tamil Nadu and Tripura.			
						<p>Digital India Programme</p> <p>Digital India is an umbrella programme to prepare India for a knowledge based transformation. This programme will pull together many existing schemes. These schemes will be restructured and re-focused and will be implemented in a synchronized manner. The programme has been envisaged to be coordinated by the DeitY and implemented by the entire Government. Digital India aims to provide the much needed thrust to the nine pillars of growth areas, viz., (i) Broadband Highways</p>	<p>(i) e-Kranti: Based on the experience with National e-Governance Plan (NeGP), a new program, namely, e-Kranti has been conceptualized, designed and initiated which is qualitatively different from NeGP but builds on experiences gained over the last seven years and logically founded on SWOT analysis of NeGP program. Various institutions & instruments of e-Kranti are National e-Governance Academy, e-Governance Knowledge Portal, create an e-Governance Impact Index and effective use of social media. The project envisages providing new portfolio of services, fast-track approval procedures and GPR to be made mandatory in each MMP for above success.</p> <p>(ii) CSC 2.0: CSC 2.0 project aims to operationalize CSC Network to 2.5 lakh Gram Panchayats. The project ensures universal digital inclusion: non-discriminatory and equitable access to rural citizens of India.</p>	Approval of e-Kranti by 31.03.2015	

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I	II	II	III	IV	V	VI	VII	VIII	IX
						(ii) Universal Access to Mobile Connectivity (iii) Public Internet Access Programme (iv) e-Governance – Reforming Government through Technology (v) e-Kranti - Electronic Delivery of Services (vi) Information for All (vii) Electronics Manufacturing – Target NET ZERO Imports (viii) IT for Jobs and (ix) Early Harvest Programmes.	(iii) NII: National Information Infrastructure (NII) has been envisaged to create a unified e-Governance infrastructure by integrating existing ICT infrastructure like SWAN, SDC, NICNET, NSDG, SSDG, MSDG, infrastructure under MMPs/States and to leverage NKN, NOFN/GUN and SWAN.	Approval of CSC 2.0 by 31.03.2015 Approval of NII by 31.03.2015	
						Good Governance and Best Practices Scheme A number of eGov applications have been developed and are delivering government services to citizens in their localities but these applications are not replicated across the States /UTs. The	Approval of proposals sent by various Central /State Government Departments. Providing technical and financial assistance for the project.	31.03.2016 31.03.2016	

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						Good Governance and Best Practices scheme aims to replicate the best practices of e-Governance and successful eGov applications. Also, the Departments have been encouraged to come up with new applications in uncovered domains under this scheme. The States/UTs have been requested to formulate suitable project proposals for development of new applications and replication of successful e-Governance applications in various domains. DeitY provides technical and financial assistance for this initiative.			
(iii)	Cyber Security (including CERT-In, IT Act)	• Security Policy, compliance & assurance	-	85.00	-	Enabling improvement of the security posture of organisations and cyber space and enhancement in the	Enablement and Verification of security posture, compliance and preparedness of Government and critical sector organisations	• Ongoing. Number of cyber security mock drills conducted at national level	

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I	II	II	III	IV	V	VI	VII	VIII	IX
		Cyber Security Eco-system				ability of IT systems to resist cyber attacks Initiatives for Implementation of National Cyber Security Policy	Cyber Security infrastructure / mechanisms for security threat early warning and response to security threats	(1) and participation at international/ overseas level (1) Number of organisations enabled for security best practices compliance and assurance (9) Completion of Stage I implementation of establishment of (i) National Cyber Co-ordination Centre (NCCC) including site preparation, procurement and creation of manpower resource	

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I	II	II	III	IV	V	VI	VII	VIII	IX
		<ul style="list-style-type: none"> Security awareness, skill development and training 				<ul style="list-style-type: none"> Trained manpower to implement techniques to secure IT infrastructure. Trained manpower to collect, analyse and process digital evidence. <p>Pre trained manpower will help in securing cyber space and check cyber crimes.</p>	<p>Cyber Security infrastructure / mechanisms for detection of malware infected systems and enabling users for disinfecting and securing systems</p> <ul style="list-style-type: none"> Awareness and training programmes to facilitate information sharing to deal with crisis situations. <p>Research and development of indigenous cyber security solutions, proof of concepts and prototypes and skilled manpower in areas of cyber security including</p>	<p>Completion of setting up of Botnet Cleaning and Malware Analysis Centre and pilot operations</p> <ul style="list-style-type: none"> Ongoing Number of persons trained on specific topics of cyber security (850 persons) <ul style="list-style-type: none"> Ongoing. Formulation of 	

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I	II	II	III	IV	V	VI	VII	VIII	IX
		<ul style="list-style-type: none"> Security R&D for indigenous skills and capabilities 				<ul style="list-style-type: none"> Development /enhancement of skills and expertise in areas of cyber security 	<ul style="list-style-type: none"> Crypto Analysis & Research Network & System Security - Mobile Monitoring & Forensics Vulnerability assessment and remediation through sponsored projects at recognized R&D organisations. 	<p>proposals with special focus on cryptanalysis, malware research, mobile security, cloud security, advanced cyber forensics and evaluation of proposals by Working Group and initiation of the projects (10)</p> <p>Average time taken to register, initiate action and provide initial</p>	
						<ul style="list-style-type: none"> Rapid response, resolution and recovery 			

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I	II	II	III	IV	V	VI	VII	VIII	IX
		<ul style="list-style-type: none"> Security incident – early warning and response (CERT-In) 				<ul style="list-style-type: none"> Enhancing the security of communications and information infrastructure in the country 		<p>response to a reported security incident (5 hrs)</p> <p>% of incidents successfully handled out of total number of incidents reported (75%)</p>	
(iv)	Technology Development Council (including ITRA)	<p>To undertake and Support R&D projects for development of :</p> <p>(a) High Performance computing (HPC)</p> <p>(b) IT in emerging areas which includes Green IT, Digital Preservation, Perception Engineering, FOSS, Bioinformatics</p> <p>(c) Information Technology</p>		30.00		<p>(i) Initiation of new Application Oriented and Basic R&D Projects (30)</p> <p>(ii) Creation of Patents based IPRs</p> <p>(iii) R&D Translations/ ToTs</p> <p>(iv) Launch of National Supercomputing Mission</p> <p>(v) Continued support to ongoing projects towards further progress and completion.</p>	<p>Availability of manpower,</p> <p>(i) Enhanced trained manpower,</p> <p>(ii) Strengthening of R&D and Innovation ecosystem in the country, and</p> <p>(iii) Indigenous technologies and product development facilitation in the various thrust areas of IT</p>	March 2017 (for i. to v)	

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I	II	II	III	IV	V	VI	VII	VIII	IX
		Research Academy (ITRA)							
		IT for Industrial Applications To strengthen local base for R&D/application in Electronics & IT in the field of Industrial Electronics, Agriculture and related areas	-	36 crore of ESDA Sub-Head of TDC Budget head proposed	-	National Mission on Power Electronics Technology Phase II (NaMPET II) <ul style="list-style-type: none"> • Initiation of one new exploratory/advanced technology/demonstration/deployment/ product development sub projects • Distribution of student awards for best projects in power electronics/power system at B.Tech/M.Tech level • Holding of 3 Short-term Courses in different areas of Power Electronics • Organization of Third National Workshop/Conference 	Enhancement of R&D infrastructure and design capability in the area of power Electronics Technology contributing to design led Electronics hardware manufacturing in the country.	July, 2015 November, 2015 April, 2015 July, 2015 October, 2015 November, 2015	NaMPET-II has been initiated on 2.1.2012 with outlay of Rs. 49.89 crore for 60 months duration

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						<ul style="list-style-type: none"> Completion of 7 sub projects 		1 sub project May, 2015 1 sub project July, 2015 2 sub projects September, 2015 3 sub projects October, 2015	
						Transfer of Technology in Automation System Technology Centre (ASTeC), Intelligent Transportation System (ITS) & Application of Electronics for Agriculture & Environment (e-AGREIN)	Four technology transfers expected from three projects.	December, 2015	All these projects have been completed.
						Electronic Personal Safety System (ePSS)	Maintenance and warranty support of the ePSS system at Jaipur Police Control room. Enhancement of Mobile Display Terminals in PCR vans at Jaipur.	July, 2015	Completed. Provided warranty support for one year
						Design & Development of continuous Flow Hydroponic System <ul style="list-style-type: none"> Designing of control System 	A dedicated user controlled prototype system, with remote access, to control and monitor Ph, Electrical Conductivity and Temperature of Nutrient solution	August, 2015	Project was initiated on 31.7.2014 with outlay of Rs. 91.15 Lakh for 24 months

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						<ul style="list-style-type: none"> Initiation of experiments in Poly House 		January, 2016	duration
						Design, Development & Engineering of 28 DOF Autonomous Humanoid Robot <ul style="list-style-type: none"> Completion of Humanoid project 	Building of R&D capabilities in Robotics field at an academic institution and demonstration of Autonomous Humanoid Robot in industrial applications	May, 2015	Project was initiated on 29.3.2012 with outlay of Rs. 45.00 Lakhs for 36 months duration
						Advanced Automation and Process Optimization System for 1200 TPD Malabar Cements Factory at Walayar, Palakkad Development of Fuzzy Logic Decision System for rotary kiln and Cement Mill and Mounting of field equipments System Configuration Field Trial of the optimized system at Rotary Kiln	Demonstration of State-of-the-art automation technology in cement plant	June, 2015	Project was initiated on 28.10.2014 with outlay of Rs. 145.18 Lakh for 18 months duration
						Design and Development of a Compact Cost	Proto-model of Brix meter based on Boiling Point Elevation and microwave technology for conducting POC	July, 2015	Project was initiated on 8.7.2014 with

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						effective Brix Meter for Sugar Industry Completion of Brix Meter Project			outlay of Rs. 49.08 Lakhs for 12 months duration
						Development of Electronic Milk Analyser using Green technology Preparation of first prototype and field trial Preparation of second prototype and field trial Dev. of engineered prototype & field trial	Affordable indigenous technology for milk analyser using Green technology having potential for technology transfer to industry.	May, 2015 October, 2015 January, 2016	Project was initiated on 8.10.2014 with outlay of Rs. 65.232 Lakhs for 18 months duration
						Modelling, Signal Processing and Coding for Two-Dimensional Magnetic Recording Analysis report of 2-D error correction codes with soft input decoders minimum distance error events of 2-D detector and computation of power spectrum of 2-D modulation codes	Basic Research in the area of 2D Magnetic Recording with possibility of a patent.	January, 2016	Project was initiated on 11.11.2014 with outlay of Rs. 47.3595 Lakhs for 36 months duration
						Design and Development of	Indigenous contemporary General Purpose controller with I/O modules which has	August, 2015	Project was initiated on

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						Universal Analog Input Module and HART Compatible Input-Output Modules Design and Development. of Universal Analog I/P module Design and Development. of 4-20 mA AI module with HART Design and Development of 4-20 mA AO module with HART	very vast connectivity and find application in process industry like sugar, textile, cement, glass, steel etc	October, 2015 December, 2015	19.6.2014 with outlay of Rs. 97.11 Lakh for 20 months duration
						Automation System for Kovur Sugar Factory, Nellore Enhancement of Controller	Demonstration of Automation System using indigenously developed ASTeC products for Sugar industry	July, 2015	Project was initiated on 17.6.2014 with outlay of Rs. 631.00 Lakh for 24 months duration
						Initiation of new projects in areas of industrial applications	Promote R&D for indigenous systems/ technologies for industrial applications	December, 2015	Working Group meeting is scheduled in July, 2015

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	R&D in Electronics TDC	Promotion of Innovation, IPR and entrepreneurship by nurturing technology startups and protection of Intellectual Property Rights				<p>i. Initiation of new R&D Projects based on Applied research and Product development</p> <p>ii. IPR facilitation support to DeitY Societies and Grantee Institutions through filing of 10 Patents</p> <p>iii. SIPEIT-II to support International Patent Protection in E&IT for MSMEs and Technology startups units.</p> <p>iv. Creation of IPR Awareness in E&IT sector through IPR clinics/Seminar</p> <p>v. Continued Support to ongoing projects towards further progress and completion</p>	Fostering Innovation & IPR ecosystem in ICT sector by way of providing facilitation services, awareness creation , supporting incubation centres and nurturing startup companies	<p>March 2016</p> <p>Twenty Five International Patent will be supported till March 2016</p> <p>Ten IP awareness workshops to be supported by March 2016</p>	
						IPR facilitation support to DeitY	Fostering IPR ecosystem in ICT sector by way of providing facilitation services,	March 2016	

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I	II	II	III	IV	V	VI	VII	VIII	IX
						Societies and Grantee Institutions through filing of 125 IPRs	awareness creation and development of requisite tools and databases.		
						SIPEIT-II to support International Patent Protection in E&IT for MSMEs and Technology startups units.		Twenty Five International Patent will be supported till March 2016	
						Creation of IPR Awareness in E&IT sector through IPR clinics/Seminar.		Ten IP awareness workshops to be supported by March 2016.	
(v)	Convergence, Communication, Broadband & Strategic Electronics (CC&BT)	To undertake and support R&D projects for the development of Convergence, Communications and Broadband Technologies	-	15.00	-	Besides continuation of ongoing projects, initiation of around 30 projects in the following area: Next Generation Communication & Convergent technologies, SDN, Cloud Computing/Communication over Cellular Network, Advanced Networks and Mobile Adhoc Network, LTE, beyond 4G/5G, Big Data analytics for societal applications	The R&D will lead to establishing indigenous capability in emerging technologies.	On an average 6 to 7 projects in quarter are proposed to be initiated. The projects are generally of 1 to 3 years duration.	

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						& disaster management, Green Communication, Internet of Things, Cyber Physical System, Wireless Sensor Networks, Multilingual broadcast applications, SoC Technology, Strategic Electronics, Microwave and Millimeter wave sensor, THz wireless System & EMI/EMC application.			
(vi)	Micro - electronics & Nano-technology Development Programme	To establish nanoelectronics & microelectronics base in the country through setting up of centres of excellence, technology development & capacity building through sponsored R&D projects.	-	35.00	-	Up to two Nanoelectronics projects will be initiated with specific targets. Up to two microelectronics projects will be initiated with specific targets.	It would enable enhancement of the domain knowledge and research base in the area	March 2016 March 2016	The outcome and output projected are subject to availability of Plan Allocation.

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I	II	II	III	IV	V	VI	VII	VIII	IX
		To protect the Intellectual Property (IP) i.e. layout-design of a Semiconductor Integrated Circuit	-	1.0 Crore	-	<ul style="list-style-type: none"> Registration of layout-design of a Semiconductor Integrated Circuit. Publication of e-journal on monthly basis 	Provide protection mechanism to the layout designs of semiconductor integrated circuits against infringement of IP of the same.	Continuous Process	<ul style="list-style-type: none"> Projected outcome depends on the applications received. The ability to process the above depends on the recruitment of permanent manpower
(vii)	Technology Development for Indian Languages	<p>The major objectives of the programme are:</p> <p>(1) To develop information processing tools to facilitate human machine interaction in Indian languages and to create and access to multilingual knowledge resources/content.</p> <p>(2) To promote</p>	-	20.00 includes		<p>New Projects</p> <p>Initiation of e-Bhasha MMP Programme</p> <p>Development of Indian Language to English Machine Translation System for Judicial Domain</p> <p>Development of ontology for</p>	<p>To permeate localization in all possible e-Gov services and also to connect the citizens to ICT through new and substantial models of implementation and service delivery.</p> <p>Machine Translation System for Indian Language to English for Judicial Domain</p> <p>Automatic development of Ontology for Agricultural Domain</p>	<p>Dec 2015</p> <p>June 2015</p> <p>Dec 2015</p>	<p>Project Initiation</p> <p>Initiation of the Project</p> <p>Initiation of Project</p>

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I	II	II	III	IV	V	VI	VII	VIII	IX
		collaborative development of futuristic technologies leading to innovative products and services.				<p>Agriculture domain in Indian languages for E-Gov application</p> <p>Indian Languages speech resources development for Speech Applications</p> <p>Multilingual automatic Text Summarization System for Hindi and Punjabi Text using Machine Learning</p> <p>E-IL Machine translation using Hindi as interlingua</p> <p>Conceptualization of next phase of consortia projects for development of next generation multilingual technologies and re-engineering of systems</p>	<p>Speech Corpora of 1000 speakers in 3 Indian Languages</p> <p>Automatic Text summarization for Hindi and Punjabi</p> <p>Development of Eng-Indian Language Machine Translation in new approach</p> <p>Focused area-wise suggestions & formulate next steps</p>	<p>Dec 2015</p> <p>Jan 2016</p> <p>Dec 2015</p> <p>March 2016</p>	<p>Initiation of the Project</p> <p>Project being finalized</p> <p>Initiation of the project</p> <p>Conceptualization of new projects</p>

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I	II	II	III	IV	V	VI	VII	VIII	IX
						<p><u>On-Going Projects</u></p> <p>Six Consortium Mode projects –Phase –II in the areas of Eng-Indian languages Machine Translation , Indian Languages – Indian Languages – Machine Translation , OCR , OHWR and Cross-lingual Information Access (CLIA) [Systems with enhanced efficiency and more languages pairs]</p> <p>Text to Speech integrated with Screen reader for 12 Indian Languages and TTS for 6 Indian Languages for Android based Mobile System</p> <p>Dependency Annotation for Indian Languages</p>	<p>Enhancement of systems Performance of MT , OCR and OHWR and CLIA in Indian Languages</p> <p>Enhancement of TTS System integrated with screen reader in terms of System Performance and TTS for Mobile devices</p> <p>Indian Language Resources for NLP Research</p>	<p>Sep 2015</p> <p>Nov 2015</p> <p>Dec 2015</p>	<p>Phase –II consortia projects are being implemented</p> <p>Project under implementation</p> <p>Project under implementation</p>

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I	II	II	III	IV	V	VI	VII	VIII	IX
						Development of Virtual Keyboard for Indian Languages	Alpha version of Virtual Keyboards for Mobile and wireless devices in 14 Indian Languages	June 2015	Project under implementation
						Development of annotated corpora for Indian Languages	Annotated corpora of 100,000 sentences each for 17 Indian Languages	Sep 2015	Project under implementation
						Development of Dravidian Word-Net South Indian Languages	Word-Net for 20,000 synsets each for 4 South Indian Languages	June 2015	Project under implementation
						Development of Prosodically guided Phonetic Engine and Phonetic search engine in Indian Languages	Alpha version of Prosodically guided Phonetic Engine and Phonetic search engine in 11 Indian Languages	Sep 2015	Project under implementation
						Development of Pronunciation Lexicon Standards in 5 Indian Languages as per W3C Standards	PLS Data of 200000 words for 5 Indian Languages	June 2015	Project under implementation
						Stake holders consultation and Validation of the following : Consolidation of inputs for internationalization in	Web Internationalization , Standardization enable Web in 22 Indian Languages	Aug 2015	Ongoing Standardization Activity.

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						W3C standards namely CSS, PLS, SSML X-forms, Mobile Web, XHTML and E-Gov Linked Data under W3C India initiative			
(vii)	R&D in Medical electronics & Health Informatics	To promote development of medical electronic equipment, rehabilitation devices and Health Informatics Systems.	-	6.00	-	Completion of development Dual photon and Multiple electron energy Linear Accelerator (LINAC) machine at SAMEER, Mumbai. Deployment of two 6MV Linear Accelerator machines at hospitals for cancer treatment.	Indigenous Technology for high energy Linac for cancer treatment Creation of facility for cancer treatment at two hospitals	December 2015 December 2015	Unforeseen delay due to testing and reworking of critical components like Linac tube beam bending system. Commissioning of the LINAC machine is linked with site preparation at hospitals and approval by AERB.

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I	II	II	III	IV	V	VI	VII	VIII	IX	
						Initiation of new R&D projects in the area of Medical Electronics & Health Informatics areas	Launching of new projects in identified thrust areas	March 2016	
(ix)(a)	Promotion of IT/TeS Industry (Formally STPI & EHTP)	To promote exports of electronics and IT	-	5.00	268.19	This program is for promotion of exports and provides facility to Indian small and medium organizations in export promotion events in the software and electronics sectors.		On Continual basis	STPI is having 53 centers across the country and as on 31.12.2014, over 3,300 units are operating under STP scheme and over 80 units are operating under EHTP scheme.	
			<ul style="list-style-type: none"> • STPI IR for financial year 2015-16 (projected) – Rs. 245.76 crores • STPI EBR for financial year 2015-16 (projected) – Rs. 621.60 crores 							
(ix)	Promotion of Electronics / IT Hardware Mfg.	Promotion of Electronics Hardware Manufacturing in the country.	-	69.00	-	(a) To take further action for Setting up of semiconductor wafar fabs, viz:- i. Engagement of consulting firm for third party appraisal of DPRs.	Consortia have indicated that the FABs may take between 24 and 36 months for commencing commercial operations from ground breaking. The setting up of FAB facilities is a critical pillar required to promote Electronics System Design and Manufacturing in India. Once established, it will stimulate the flow of capital and technology, create employment opportunities, help higher	i. April 2015 ii. July, 2015 iii. August 2015 iv. October 2015	Cabinet has approved setting up of two semiconductor wafer fabrications facilities in India with the combined	

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						ii. Appraisal of DPRs. ii. Issuance of Letters of Commitment after iv. Execution of final agreements after Demonstration of Commitment by each consortium.	value addition in the electronic products manufactured in India, reduce dependence on imports, and lead to innovation.		project outlay of Rs. 65000/- crore. The letters of Intent have already been issued and consortia's have been asked to submit DPR and take necessary action for exhibiting financial commitment to the project. The deliverable is subject to the Consortia's taking requisite action and compliance thereof in response to Letters of Intent and further discharge of requisite responsibilities/ role at their end.

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I	II	II	III	IV	V	VI	VII	VIII	IX
						(b) To take action for review and extension of Policy beyond July 2015; to attract investment from appx. 25 units or investment proposals of Rs. 8000 crore under Modified Special Package Scheme (M-SIPS) on review & extension of policy and disbursement of incentives to the approved applicants.	These would encourage investment in electronics/ IT hardware manufacturing sector and also provide employment opportunities in the Country.	March 2016	The deliverable is subject to requisite approval of review and extension beyond July 2016. Also, it is subject to the response of Industry to the Scheme and global economic and market scenario. Further, the applicants are required to undertake conforming action as called for. The disbursement of subsidy to the applicants will depend on their attaining financial closure, the NPV of investment exceeding the

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									threshold value and other conditions including furnishing of requisite information by the applicants and recommendations of Appraisal Committee and requisite approvals.
						(c) The “Electronics and Information Technology Goods (Requirements for Compulsory Registration) Order, 2012” had been notified through the Gazette of India on 03 Oct. 2012 under the provision of compulsory Registration Scheme of BIS Act, 1986. This order becomes effective from 03 rd July 2013. To take action for conducting awareness &	This would lead to circulation of safe electronics products in the country.	March 2016	The action concerns a number of Govt. Departments particularly Department of Consumer Affairs; Bureau of Indian Standards and response of the Industry. Further, the activity needs to be supported by a mechanism by creation of posts, response

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						communication campaign; Portal management; Support for labs ; Sampling & collection Agency ; Governance mechanism and Up-gradation of standards & participation in meetings.			of the stakeholders etc. Ministry of Finance is yet to sanction the creation of regular post for this activity, which at present is being run with the assistance of Consultants.
						(d) To take action for operationalisation of the policy of “Electronics Development Fund” (EDF) for promotion of Innovation, R&D, Indian IPR ,which was approved on 10-12-2014 by Cabinet and notified on 6-1-2015. Also to take action on the individual proposals for creation of funds and to identify the financial institution to house the EDF.	These would encourage promotion of R&D/Innovation by inducing investment in electronics/ IT hardware manufacturing sector and also provide employment opportunities in the Country.	March 2016	The implementation of the proposal would depend upon the response of stakeholders.

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						<p>(e) To take further action for implementation of Electronics Manufacturing Clusters (EMC) Scheme, which has been approved by the Cabinet and notified on 22.10.2012 such as:-</p> <ul style="list-style-type: none"> To process initial applications for Greenfield clusters and to accord in-principle approval to five Greenfield clusters. To release grant in aid to final approved EMCs on fulfillments of requisite parameters. 	These would encourage investment in electronics/ IT hardware manufacturing sector and also provide employment opportunities in the Country.	March 2016	The deliverable is subject to the response from stakeholders on this promotional scheme and also depending upon the requisite approvals and clearances from various authorities.
						(f) To take requisite action on the implementation of the project of Electropreneur Park	It may lead to development of 50 entrepreneurs with various indigenous ESDM products and IPs over the period of five years.	March 2016	Depending upon the views/ response of concerned Govt.

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I	II	II	III	IV	V	VI	VII	VIII	IX
						being implemented by STPI/DU along-with IESA, by conducting the PRSG meetings and release of grant in aid.			Departments and other stakeholders involved in the process. The requisite action would be taken.
						(g) To take requisite action on the implementation of the project regarding Incubation Centre at IIT-Patna by conducting the PRSG meetings and release of grant-in-aid.	It may lead to development of 40 entrepreneurs with various indigenous products in the field of medical electronics and IPs over the period of five years.	March 2016	Depending upon the views/ response of concerned Govt. Departments and other stakeholders involved in the process. The requisite action would be taken.
						(h) To take necessary action for processing and obtaining approval on the recommendation of Working Group on Development of Innovation and IP in ESDM sector regarding setting up of Incubation Centre by IITM-K at	It may lead to development of 50 entrepreneurs with various indigenous ESDM products and IPs over the period of five years.	March 2016	Depending upon the views/ response of concerned Govt. Departments and other stakeholders involved in the process. The requisite action would be taken.

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						Kochi, Kerala and implementation of the project.			
						(i) To take further action for development and implementation of Indian CAS as it is expected to be built, tested and be ready for integration and deployment by November, 2015.	Conditional Access systems (CAS) are highly proprietary and dominated by few global companies, which is a major impediment in design and development of domestic STBs. Developed Indian CAS will be integrated for at least 5 operators for at least 250,000 end users. Indian CAS would be made available to domestic vendor's @USD 0.5 for a period of 3 years as against current market value of nearly USD 2 or more per STB. Even after expiry of the agreement, the developer will always make license available to operators and domestic manufacturers of Head-end and STBs at commercial rate.	November 2015	Depending upon the views/ response of concerned authorities and other stakeholders involved in the process. The requisite action would be taken.
						(j) To take further action for implementation of the Project for funding and support to Industry and Academic Institutions for doing collaborative research to be implemented by Global Innovation and Technology	These would encourage promotion of R&D/Innovation by inducing investment in electronics/ IT hardware manufacturing sector and also provide employment opportunities in the Country.	March 2016	Depending upon the views/ response of concerned authorities and other stakeholders involved in the process. The requisite action would be taken.

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						Alliance (GITA), which includes obtaining approval of Terms & Conditions for collaborative Grant-in-aid(as followed by DST) etc.			
						(k) To take action for implementation of the Project on “Industry Innovation Programme on Medical Electronics [IIPME]” being implemented by Biotechnology Industry Research Assistance Council (BIRAC).	These would encourage promotion of R&D/Innovation by inducing investment in electronics/ IT hardware manufacturing sector and also provide employment opportunities in the Country.	March 2016	Depending upon the views/ response of concerned authorities and other stakeholders involved in the process. The requisite action would be taken.
						(l) To take action for implementation of scheme for National Awards in ESDM for recognizing the achievements of successful industry in the ESDM sector ; to motivate the entrepreneurs in the sector and to encourage new	These would provide encouragement and motivation in electronics/ IT hardware manufacturing sector and also provide employment opportunities in the Country.	March 2016	Depending upon the views/ response of concerned authorities and other stakeholders involved in the process. The requisite action would be taken.

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						investment and innovation in the sector.			
						(m) To take action to sort out tariff related issues to promote ESDM.	These would encourage investment in electronics/ IT hardware manufacturing sector and also provide employment opportunities in the Country.	March 2016	This is dependent upon the response of various Govt. Departments and authorities particularly Ministry of Finance and Ministry of Commerce and Industry.
						(n) To take further action for implementation and operationalisation of the project for setting up of National Centre for Large Area Electronics, which has been approved and 1 st instalment of grant-in-aid released, as Joint Industry/academic effort at IIT K to promote cutting edge research in the emerging area. The	These would encourage promotion of R&D/Innovation by inducing investment in electronics/ IT hardware manufacturing sector and also provide employment opportunities in the Country.	March 2016	Depending upon the views/ response of concerned authorities particularly IIT-K and other stakeholders involved in the process. The requisite action would be taken.

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						steps involves laboratory space development; recruitment; progress review; research programme/collaborative activity etc.			
						(o) To take action for setting up of National Centre of Excellence in Technology for Internal Security(NCETIS) to develop state-of-art-technologies, vital to our security agencies at IIT Bombay. The project has been appraised and further action would involve obtaining requisite approvals; execution of MoU; release of grants; initiation of implementation of project; review etc.	These would encourage promotion of R&D/Innovation by inducing investment in electronics/ IT hardware manufacturing sector and also provide employment opportunities in the Country.	March 2016	Depending upon the views/ response of concerned authorities particularly IIT-B and other stakeholders involved in the process. The requisite action would be taken.
						(p) To take action for formulation of policy to promote the fabless chip design, embedded	These would encourage investment in electronics/ IT hardware manufacturing sector and also provide employment opportunities in the Country.	March 2016	This is dependent upon the requisite approvals and

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						software and board design industry in India by providing benefits and obtaining the approval after the circulation of DCN etc.			response of various Govt. Departments.
						(q) To take action for preparation of DPR in coordination with IISC, Bangalore for establishing Centre of Excellence for Micro-Nano Systems at IISC, Bangalore.	It will enable taking of concrete action on Setting up of Centre of Excellence for Micro-Nano Systems	May 2015	Depending upon the views/ response of concerned authorities and other stakeholders involved in the process. The requisite action would be taken.
						(r) To take action for bringing out policy for Mega Electronics System Design and Manufacturing (ESDM) Projects for attracting large investments in the sector to accelerate domestic	These would encourage investment in electronics/ IT hardware manufacturing sector and also provide employment opportunities in the Country.		This is dependent upon the requisite approvals and response of various Govt. Departments.
(x)	National Knowledge Network (NKN)	The objective of the National Knowledge	-	150.00	-	The NKN is to inter-connect all knowledge institutions across the	NKN would facilitate creation, acquisition and sharing of Knowledge resources among the large participating Institutions;	End of 2015-16	Achievements against indicated

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		Network is to bring together all the stakeholders in Science, Technology, Higher Education, Research & Development, and Governance with speeds of the order of gigabits per second coupled with extremely low latencies; through PoPs in the respective institutions/ organisation.				country through high speed data communication network to encourage sharing of resources and collaborative research. These would cover about 1500 Institutions comprising all Universities, Institutions of Higher Learning, and Research. Likely Targets for 2015-16 <ul style="list-style-type: none"> • 200 Institutions would be connected to NKN • 300 Districts would be connected to NKN. 	collaborative research; countrywide classrooms (CWCR) etc. and help the country to evolve as Knowledge Society.		targets would depend on timely allocation of funds.
(xi)	Controller of Certifying Authority (CCA)	To promote use of electronic/ digital signatures for e-governance and e-commerce applications Awareness generation and Training	-	7.00	-	Promotion of use of Electronic/ Digital signature certificates	Enhanced use of electronic/digital signatures for e-governance and e-commerce, banking applications etc. Training facilities, modules and content development and awareness generation.	Continuing process	

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		programs in Electronics Signatures							
(xii)	Facilitation of Setting up of Integrated Township (E-Infrastructure) ITIR	Review of ITIR policy 2008.	-	-	-	As directed by CCEA, the Information Technology Investment Region Policy Resolution, 2008 should be comprehensively re-examined in the light of the experience gained over time and placed before the Committee.	The revised ITIR policy shall be circulated to all Ministries, State and Governments.	April 2015	
		To set up of Information Technology Investment Region in Bhubaneswar.				Post review of ITIR Policy 2008, approval of Cabinet Committee on Economic Affairs (CCEA) to set up ITIR in Bhubaneswar .	The notification for setting up of ITIR near Bhubaneswar will be issued after approval of CCEA.	June 2015	
		To set up of Information Technology Investment Region in Visakhapatnam				Post review of ITIR Policy 2008, approval of Cabinet Committee on Economic Affairs(CCEA) to setup ITIR in Visakhapatnam.	The notification for setting up of ITIR near Visakhapatnam will be issued after approval of CCEA.	August 2015	