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1.	**Electronic Governance**	National e-Governance Plan (NeGP) has been approved by the Government on 18th May, 2006 with a common vision, implementation methodology and management structure. It comprises of 31 Mission Mode Projects (MMPs) having a singular mission to make all Government services accessible to the common man in his locality, through efficient, transparent and reliable mechanisms. To realise vision of		700.00		**<u>Establishment of SWAN</u>** To provide upto 8 Mbps data connectivity up to Block level in all States /UTs in phases. As Part of the ongoing Scheme both leased line and wireless based network would be created across the country. The SWANs in 31 States i.e. Andhra Pradesh, Chandigarh, Chhattisgarh, Delhi, Gujarat, Goa, Haryana, Himachal Pradesh, Jharkhand, Kerala, Karnataka, Lakshadweep, Maharashtra, Orissa, Punjab, Puducherry, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal, Assam, Bihar, Madhya Pradesh, Uttarakhand, Manipur, Arunachal Pradesh,	Implementation of SWAN in remaining States/ UTs i.e. Jammu & Kashmir, Dadar & Nagar Haveli, Daman & Diu, Andaman & Nicobar Islands.	All SWANs are expected to be operational by March 2014	State Government, would leverage the SWAN as a core network infrastructure progressively to provide G2G services and later G2C services (even below Block Hqrs level when last mile connectivity would be made available) whose availability is presently confined to the location of the offices providing these services any where anytime over the entire State.

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		NeGP, the DeitY has been entrusted with laying an elaborate common infrastructure platform for the use of all the MMPs. The common program support components are aimed at creating the right governance and institutional mechanisms, core infrastructure, policies & standards and the necessary legal framework for adoption of e-Governance in the country. Under the programme				Mizoram Nagaland and Meghalaya and Rajasthan have been operational. Implementation of remaining States/UTs SWANs are at various stages of Implementation.			
						<u>State Data Centres</u> State Data Centre has been identified as one of the important elements of the core infrastructure for supporting e-Governance initiatives of NeGP. The Scheme has been approved by the Government at a total outlay of ₹ 1623.20 Crores over a period of 5 years. Whereas, 19 SDCs have been made operational, the implementation of the remaining SDCs in the States/UTs will be	Secure and reliable sharable infrastructure to host data and applications State Data Centre will help in providing efficient electronic delivery of G2G, G2C and G2B services.	By the end of March, 2014, the SDCs in six additional States/ UTs would be implemented and made operational. Also TPA agencies which have been empanelled will be engaged by all States/ UTs.	The factors at the State level which may lead to delay in the execution of the project are: • Delay in identifying, change in the site, construction of new building and handing over the site to the selected Bidder. • Delay in provisioning of raw power for the SDC. • Delay in awarding LoI and Contract to

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		robust e-infrastructure is being created to facilitate deployment of ICT solutions by various Departments and state Governments. Significant progress has been made in the implementation of the core infrastructure and also in most of the Mission Mode Projects. .				completed.			the selected Bidder. • Delay in the completion of the Final Acceptance Test.
						<u>Common Services Centres (CSCs)</u> The Government had earlier approved a Scheme for establishing 100,000+ CSCs, primarily in rural areas of the country. These Centres are envisaged to be broadband Internet enabled and are presently providing various available government and private services at the doorstep of the citizens. The Scheme is to be implemented in Public Private Partnership mode The Scheme had been approved at a total cost of Rs 5742 crore with Government of India contribution at ₹ 856	To operationalize 100% of the planned CSCs across 35 States/ UTs Complete integration of 40,329 CSC like kiosks with the CSC Scheme. 2500 VSATs sanctioned for North East and other difficult areas would be fully operational Special thrust would also be laid for completing training of women beneficiaries on the BCC course of NIELIT Increasing the outreach of CSCs for financial inclusion	The projected deliverables would be achieved by March 2014	Majority of the remaining CSCs to be rolled out fall under difficult, inaccessible / and or areas having law and order/ naxalite problems. Therefore, the rollout for the remaining CSCs is a challenging task for the partners in the scheme i.e. the State Governments and the Service Center Agencies which are private sector entities entrusted with the responsibility of rollout and management of the CSCs. Further, in states like Haryana, UP, MP,

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						crore and State Governments' contribution being Rs 793 crore. The balance fund is being invested by the private sector which is a key stakeholder in the CSC eco-system known as Service Centre Agencies (SCAs).			Maharashtra, Tamil Nadu, Bihar, Rajasthan and Jharkhand, the State Governments have terminated the contracts of existing SCAs which has led to certain centers becoming non-operational. All efforts are being made to overcome the impediments in implementation of the scheme.
						State Portal, SSDG, e-Forms - Facilitating Services through CSCs by enabling Implementation of State Portal, SSDG, e-Form Application and Gap Infrastructure This project creates State Portals that will host electronic forms to offer convenient and easy services to citizens. This	• Easy anytime and anywhere access to e-Gov services for citizens. • Reduction in number of visit to Government offices for availing services	By March 2014, the following will be achieved : • At least 5 additional states/UTs shall be made live. • DPR proposal for at least 4 more states/UTs shall be approved.	Delay at the State/UT level in finalization of Contract, Agreement, and various deliverables of the project.

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						project leverages the existing e-Governance infrastructure like CSCs, SDCs and SWANs. This project intends to provide easy, anywhere and anytime access to Government Services (both informational & transactional). The project aims to reduce number of visits of citizens to a Government office / department for availing the services. It also aims to reduce administrative burden and service fulfilment time & costs for the Government, Citizens and Businesses and creating a more efficient communication through portal. The major components of this project include the State Portal, electronic forms,			

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						the services delivery gateway, gap infrastructure and training. Project proposals approved for 31 States/UTs and ₹ 120.93 Crores released to the states/UTs Out of the approved 31 states/UTs proposals, 28 states/UTs have floated the RFP for the selection of the Implementing Agency for the project. Out of these 28 States,9 States/UTs (Tamil Nadu, Goa, Manipur, Nagaland, Himachal Pradesh, Meghalaya, Uttar Pradesh, Jammu & Kashmir and Puducherry) have gone-live with services to citizens 16 States/UTs are in advanced			

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						implementation phase. 3 States/UTs are in the process of signing contract with IA			
						<u>e-District</u> e-District Mission Mode Project proposes integrated and seamless delivery of citizen services by district administration through automation of workflow, backend digitization, integration and process redesign across participating departments for providing services to the citizens. The project covers high volume of Citizen Centric Services at district and sub district level. The e-District MMP was approved by the CCI on 20th April 2011.	Selection of Implementing Agencies for all States/ UTs. Implementation of e-District in at least 200 additional districts.	By March 2014,e-District project will be implemented in 200 additional 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
						<u>World Bank supported "e-Bharat":</u> Following availment of a	DeitY proposes to use this support to fund various e-governance	Approval of additional 20 projects of	

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						Development Policy Loan amounting to US$ 150 million (about Rs 700 crore) from the World Bank for programme management and financial support for National e-Governance Plan (NeGP), the Department of Electronics & Information Technology (DeitY) has been utilising this support as a focal point to convene all the associated departments of the central and state governments around a concrete reform agenda for e-governance in the country. DeitY is supporting critical policy and institutional actions of Central/State/UT Governments that entail e-delivery of services	initiatives of GoI and States/UTs in the broad areas of policies, human resources, technology, project development and projects. Approval of additional 20 projects of GoI /States /UTs.	GoI/States/UTs would be accorded by March 2014.	

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						leading to more robust implementation of NeGP, with significant social benefits for the population and positive impact on the poor. DeitY has established a dedicated Project Management Unit (PMU) at the national level to help in an effective and efficient implementation of this project. Detailed Guidelines on Project Development and Project Implementation have been issued to central and state government departments for identification, development and implementation of suitable project initiatives. Till date, 9 projects worth ₹ 98.75			

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						crore have been sanctioned and 82 more project proposals are at various stages of consideration.			
						<u>Capacity Building Scheme</u> The scheme is mainly for providing technical & professional support to State level policy & decision-making bodies and to develop specialized skills for e-governance at a total outlay of ₹ 313 crore for all the States/UTs. So far, under CB scheme following have been achieved – SeMTs have been setup in 35 States with 250 professionals from the open market including 11 officers on deputation from the Government. 6	Roadmap will be formulated for the Capacity Building Scheme beyond its existing term. Follow up action for the implementation of the recommendations of the HR Policy on e-Governance. Conducting a Training Needs Assessment for developing a training framework DPR for setting up of for e-Governance Academy to be finalised National roll out of 8	The Projected deliverables will be achieved by March 2014.	• Difficulty in recruiting persons with requisite skill sets due to limited capacities in market and in Govt. • 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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						orientation programmes have been conducted for their knowledge and skill development. A wide range of training programmes like Leadership Meets, Specialized Training for e-Governance Programme (STeP), CIO's Programme, Orientation workshops and other training modules have been rolled out to up skill Government officials at all levels. More than 115 Specialized Training programmes in e-Governance, covering more than 2500 officers, were conducted across the country Pilot CIO training programmes for training	CIO training programmes in three categories for training of 200 officers to be conducted. Existing trainings to be continued, to cover officers at all levels and new programmes to be introduced. Training programmes through e-learning mode to be carried forward on a larger scale. Develop the NeGP portal as knowledge repository of content in different areas of e-Governance.		

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						50 officers of Central / State & UT officials involved in implementation of e-Governance projects has been completed and proposal for the National rollout has been approved.			
						<u>Standards for e-Governance</u> Standards for e-Governance are a high priority activity, which will ensure sharing of information and seamless interoperability of data and e-Governance applications under NeGP. The details are:- • Development and enhancement of Standards, Guidelines, Policy in identified areas	• Ensure Interoperability, integration & seamless data sharing of e-Gov applications • Release of standards/ guidelines in Interoperability framework, Data & Metadata phase II, Security, Enterprise Architecture, Quality & other new areas that emerge	By March-2014, the following activities will be completed : • Technology Standards in Interoperability Framework for e-Governance (IFEG) will be published • Keyboard layout Standard to be notified • Localization Guidelines to be approved • Standards formulation for Digital	Minimal response/feedback on the standards, as no full time participation of the experts are the likely risk factors.

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						• Development of standards in the new areas like Digital Preservation • Publishing of standards on the website		Preservation • Standards Compliance Framework and Enforcement mechanism • Training programmes / seminars / Workshops for awareness about the open standards, and their adoptions to ensure seamless interoperability among applications of different domains.	
						National e-Governance Service Delivery Gateway (NSDG) NSDG is a middleware infrastructure, would act as standards based routing and a message switch de-linking the back end departments from the Front-end	This soft infrastructure which is based on standards will facilitate integration, interoperability & data sharing amongst	By March 2014, the following activities will be completed • Integration with various e-	Readiness of the departments for the interoperability and data sharing is a likely risk factor

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						service access providers. This would facilitate standards based interoperability and integration to existing and new e-governance applications. The details are:- • A pilot implementation has been successfully developed and tested. The National Gateway is implemented by CDAC and is live since Aug'08 • Operations & Maintenance for 5 years • Integration with various e-Gov projects like eBiz, Trademarks	various eGov applications.	Governance applications in order to bring more services onboard NSDG. • Strengthen the NSDG infrastructure with respect to security • Undertake technical enhancements to the NSDG product	
						<u>Framework for Mobile Governance</u> DeitY has launched a massive countrywide initiative on mobile governance to provide	Scale up the existing infrastructure with other important solutions like mobile payments,etc. Enhance the Mobile	By March 2014, the following deliverables will be completed : (i) No of transactions : 1	Delays could occur in identification of mobile based public services by the central and state Government

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						government services to the people through mobile phones and tablets. As a part of this initiative, the Framework for Mobile Governance was notified in February 2012. Further, the Mobile Service Delivery Gateway (MSDG) has been developed by DeitY as the core infrastructure for enabling the availability of public services through mobile devices. MSDG enables the integration of the mobile platform with the common e-Governance infrastructure consisting of State Data Centres (SDCs), State Wide Area Networks (SWANs), State and National Service Delivery Gateways (SSDGs/ NSDG). It enables a government department to integrate both web and mobile based services	Governance portal as a knowledge portal and knowledge management framework that acts as a platform for awareness generation and dissemination for various Central Government Ministries and the State Governments. Create an appropriate facilitating mechanism to ensure compliance with the standards for mobile applications and ensure seamless interoperability of services and implementation of short and long codes for public services across multiple service providers.	Crore per month (ii) No of additional Govt.Depts. using MSDG: 100 (iii) No of live Mobile Applications on the Mobile App Store : 75	departments and agencies, in developing suitable applications for them, and in integrating them with the MSDG.

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						seamlessly and enhances the access to electronic services tremendously due to the very high penetration of mobile phones, especially in rural areas. Availability of government - wide shared infrastructure and services enable rapid development and reduced costs for the departments in rolling out electronics services			
						R&D in e-Governance To support research and development activities in various areas where R&D will bring direct benefit.	Applied R&D which would enable bringing innovative solutions which are cost-effective for the various e-Governance applications	Two new R&D projects will be approved by March 2014.	Availibility of required technical personnel is likely a risk factor
						Assessment Under the Assessment programme, the following types of assessment of e-Governance projects are proposed to be undertaken: • Impact Assessment	• Impact Assessment of 2 MMPs • Baseline Assessment of 2 projects including at least 1 MMP • Detailed	By Mar-2014,the following would be completed • Publish assessment studies of 5 projects initiated in 2012-13	• Revision of Assessment and Work Allocation process and re-empanelment of agencies

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						• Detailed Assessment • Baseline Assessment In addition, e-Readiness Assessment of States & UTs is also undertaken. The outputs of these assessments are Assessment reports that provide insights into the impact of the projects in terms of cost of accessing the services, quality of services rendered and even empowerment in terms of transparency, accountability etc. The assessments aid in gaining an empirical insight into issues relating to the dynamic and organic nature of governance such as how these projects are perceived by the citizen and their effects on him/her as an individual. The e-Readiness	Assessment of 3 projects including at least 1 MMP • E-Readiness Assessment for 2010-12 would be completed	• Initiate assessment of 10 e-Governance Projects	

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						Assessment provides a comparative analysis of states and union territories on the various indicators of e-Readiness which impact the ability of the state as well as the business and the people residing in that state to participate in the knowledge economy.			
						<u>Awareness & Communication</u> National Awareness Campaign for NeGP • To create awareness among citizens about the initiative and its objectives – Output – Mass Media Campaign using TV, Radio & Print; Outreach in villages • To build distinctive brand of NeGP to be utilized across Departmental communications – Output – Films,	Awareness at national level about NeGP Promotion of NeGP Umbrella brand amongst states and MMPs. Increased awareness at State and village level about NeGP	By March 2014, the following will be achieved: • NeGP Campaign for Common peson Workshops/seminars for Central Line Ministries specific to Central MMPs & Workshops at State and Zonal levels across States/Uts Outreach programmes for rural populace in 10 States, and	Relatively low levels of awareness amongst citizens Approval of Campaign Readiness of States for Outreach activities Willingness of other MMPs to use NeGP Brand

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						posters and advertisements that can be used by other departments • To motivate other external stakeholders – Output – Workshops and seminars • Workshops and Seminars at MMPs /State/Divisional level		students in universities • Mass media advertisement with special emphasis on TV and Radio	
						Design and Deployment of Localization Projects Management Framework on Cloud Platform: The project is aimed at creating a platform to provide access to all language related tools and services, enable localization of MMPs and finally after the development and integration of the Localization framework , migrating the services to the Cloud platform. A	Study of existing MMPs and identifying localization requirements / tools and bring out / best practices – guidelines Design, Deployment and Customization of Localization Projects Management Framework workflow for managing the Localization requirements of 7 MMPs • Design and	The projected deliverables will be achieved by March 2014.	• Standards adherence is crucial • Non-availability of skilled manpower, especially in the field of language translation • Scalable Standardized tools / technologies for the entire workflow Standard term Banks – especially

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						host of services is proposed to be offered through this project. Finally it is also proposed to provide a • Seamless support of Indian languages on the mobile platform at the OS (Operating system) level. The project is to be implemented by CDAC at a total Budgetary outlay of ₹ 1483.19 Lakhs for a period of three years.	development of "Standard Interfaces" for plugging in various services such as Transliteration, MAT, Spellcheckers, Translation memories, etc into Language switch / LPMF • Train e-Governance application developers to develop internationalized applications which could be localized for specific market segments in Indian languages.		for e-governance applications, cross language terms banks and sharing with developers.
2.	**National Informatics Centre (NIC)**	Provide wide range of E-Governance infrastructure and services in the Country at various levels right from Central		830.00		**Cyber Security** Network and application security audit and hardening systems and Securing Data Centres; Enhancement of security at NIC State Centres;	Enhanced security of NICNET and services	March, 2014	

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		Government, State Governments to district administrations in their initiatives towards providing good Governance to the people.				Providing Cyber Security training to NICNET users.			
						Certifying Authority • Enhancing the use of DSC in G2G domain	• Digital Signature Certificate (DSC) Subscribers will be serviced by the new Registration Authorities (RA) offices in NIC State Centres to enable better support and reduced delivery time.	March, 2014	
						• Online Directory Service for DSCs & Certificate Revocation List (CRLs)	• Augmentation of CA Services to cater to specialized application of e-governance and Enhance the security features of e-Governance applications.	March, 2014	
						• Time Stamping	• To cater to the	March, 2014	

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						Service	Time Stamping requirement of DSC users		
						Design, Development, implementation of e-Governance application at various locations/sites in sectors such as: • Public Distribution (e-PDS) • Govt. Procurement (e-Procurement) • Health (e-Hospital) • Office Management (e-office) • Judiciary (e-courts) • Rural Development (MGNREGS, Punchayat Suite, RuralSoft etc.) • Transport (Vahan, Sarathi) • Immigration, Visa and Foreigners Registration & Tracking (IVFRT) • Property Registration • Land Records • Data.Gov	• Faster services to citizen • Ease of use for end-users • Better management Resulting in better e-Governance	March, 2014	

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						• Apps Store • e-Transactions, etc.			
						Videoconferencing (VC) infrastructure development • Augmentation of VC facility in States & Districts. • Augmentation of Multi-Point Common Unit (MCU) infrastructure at State and NIC-HQ • Expansion of Desktop VC services	• To provide Videoconferencing services to all Central Government and State governments for effective e-governance • Additional support infrastructure for Multipoint VC sessions. • Providing infrastructure for expansion of Desktop VC systems.	June, 2013 October 2013 March, 2014	
						Remote Sensing & GIS Multi_Layer GIS Platform & Infrastructure, Image as well as vector GIS services, priority sector	Service Oriented National GIS Framework with Web Services/APIs to service various E-	March, 2014	

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						applications & training	governance & planning users		
						Data Centre • Establishment of National Data Centre at Bhubaneswar • Enablement of cloud computing services at National Data Centre, Delhi. • Upgradation of National Data Centre, Pune. • Upgradation of National Data Centre, Hyderabad.	To provide robust and scalable infrastructure at National Level for e-governance services.	March, 2014	
						NICNET International Gateway project Gateway Bandwidth will be upgraded.	Enhanced and efficient availability of Internet Services with enough redundancy to run critical services.	March, 2014	
3.	**National Knowledge Network**	The objective of the National Knowledge Network is to bring together all the	-	360.00	-	The NKN is to inter-connect all knowledge institutions across the country through high speed data communication network	NKN will facilitate creation, acquisition and sharing of Knowledge resources among the large participating	March 2014	Achievements against indicated targets would depend on timely allocation of funds.

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		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.				to encourage sharing of resources and collaborative research. These would cover about 1500 Institutions comprising of all Universities, Institutions of Higher Learning, and Research. • 500 institutions would be connected to NKN • 400 districts would be connected to NKN	Institutions; collaborative research; countrywide classrooms (CWCR) etc. and help the country to evolve as Knowledge Society.		
4.	**Manpower Development (Incl. Skill Dev. in IT and IT for Masses)**	E-learning	-	150.00	-	Rollout of OLabs in CBSE Schools across the country	▪ Setting up of platform for enabling OLabs for online practical science experiments with content aligned	To initiate new project during	

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							to CBSE syllabus for class 9 and 10 for subjects of Physics and Chemistry	2013-14	
						Roll out and enhancement of Framework for Adaptive Instruction Phase 2	▪ To obtain reliable impact assessment of framework to ensure quality and reliability ▪ Building CCC course of NIELIT in the framework ▪ Few training centers to be identified by NIELIT for pilot deployment	To initiate new project during 2013-14	
						Online Labs (OLabs) for school experiments - Phase 2	Enhancing OLabs phase 1 experiments for 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	These 4 projects likely to be approved in 2012-13 and will continue in 2013-14	

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							enhancements to framework to support OLabs on Android tablets.		
						Online Assessment and Evaluation System (OAES) for National Level Certification Examinations	Initiation and development of tool for OAES together with pilot deployment.		
						MedSim – eLearning platform for Medical Simulation	To build Medical elearning platform (Medsim) that supports Medical Simulations in two broad areas. Pilot study will be done at two Government Hospital.		
						Development of Personalised and Performance based E-Learning tool for existing E-resources	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		

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						Adaptable e-Learning Accessibility Model for the Disabled	• Development of Accessible E-Learning Framework • Launch of E-Learning web Portal with the support of local language • Awareness and training programmes and workshops to be organized	May 2013	
						Design and Development of Context Aware Mobile assisted Augmented Reality Framework for Learning Environment	• Framework to create augmented reality based e-learning applications for students including design and develop following 3 pilot applications based on the framework:- a. Augmented Reality based Board. b. Augmented Reality based book. c. Augmented Reality based game.	Sep. 2014	

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							• To conduct knowledge dissemination program through trainings and workshops		
		Human Resource Development of North - Eastern Region by enhancing the Training/ Education capacity in the IECT Area				Upgradation of six existing centres of NIELIT located at Imphal, Aizawl, Guwahati, Shillong, Gangtok, Itanagar to a full-fledged campus with state-of-the-art labs, classrooms, hostels, staff quarters, etc. Setting up of ten new Extension centres at Senapati and Churachandpur in Manipur; Dibrugarh, Silchar, Jorhat and Kokrajhar in Assam; Lunglei in Mizoram; Tura in Meghalaya; Tezu & Pasighat in Arunachal Pradesh. Upgradation of two existing Extension centres located at	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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						Chuchuyimlang in Nagaland and Tezpur in Assam. Increase in training capacity from 3,080 per year to 14,400 per year from the 5th year onwards.			
		Setting up of NIELIT Centre at Agartala (Tripura)				NIELIT Centre at Agartala (Tripura)	Create skilled manpower in the area of IECT.	March 2014	
		Setting up of NIELIT Centre at Ajmer (Rajasthan)				To launch additional training courses from the temporary built up space at Kekri. To initiate actions for construction of the NIELIT Campus.	Create skilled manpower in the area of IECT.	November 2014	
		Setting up of NIELIT Patna (Bihar)				Initiation of NIELIT Centre, Patna activities from temporary premises provided by Bihar State Government and initiating action for construction of permanent campus of NIELIT Centre at Patna. To train 1360 candidates	Create skilled manpower in the area of IECT. Train about 40,000 candidates through direct or indirect mode in five years.	October 2017	

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						in various non-formal and Short-term courses in FY 2013-14.			
		Upgradation and establishment of facilities for NIELIT Kolkata Centre				Construction of NIELIT Kolkata Centre building	Enable NIELIT Kolkata Centre to enhance the output of skilled manpower in the area of IECT and allied areas for making available industry ready professionals.	February, 2014	
		Capacity building in the areas of Electronic Product Design and Production Technology				Launching various formal and non-formal courses Train about 2000 candidates in FY 2013-14	To develop human resource at various levels including Certificate, Diploma, Post Graduate, and Research Professionals with adequate competence levels (Target: 11,515 in five years). upgrade the competence of working professional in Indian Industries and knowledge/ skills of faculty of technical institutions.	April 2017	
		Advanced Faculty Training in				To impart advanced training through innovative and	Skilled engineering faculty members with hands-on exposure to	June 2013	

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		Emerging Trends of Hardware, Embedded Systems and Information Technology - C-DAC Hyderabad				participative learning-teaching approaches within a project based training framework to 500 engineering faculty members. To conduct ten Workshops/ Seminars on latest technological trends and possible research that can be taken up in IT.	industry relevant areas of IECT. Research Orientation to faculty members who attended the training programs in the area of IECT.		
		Advanced Training for Professionals by ABV-IIITM, Gwalior				Training to unemployed Engineers (Graduates/Post Graduates): Target 600 in two years (FY 2012-14) Certified Training programme faculty members in advanced ICT area: Target 150 in two years (FY 2012-14)	To provide suitably trained manpower to IT & ITES industry. To provide employability to young graduates	April 2014	
		Setting up of ICT Academy of Kerala (ICTACT)				To set up an ICT Academy for training of 5000 faculty members of Art, Science, Polytechnics, ITI's and Engineering Colleges and support rollout of	Students would be benefited from the trained faculty members	May 2012 (Project duration to be extended)	

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						mass based HR programmes for graduates			
						Free training to SC/ST students Upgradation of NIELIT Centres and setting up of new Extension Centres in the North Eastern Region	Empowerment of SC/ST students Development of North - Eastern Region by enhancing the Training/ Education capacity in the IECT Area	On yearly basis May 2017	
		New Schemes under formulation and subject to approvals Scheme for setting up of Electronics and ICT Academies in the States/UTs for faculty development				To set up an Electronics and ICT Academy as a unit in IITs, IIITs, NITs, etc., for faculty/ mentor development/ upgradation through active collaboration of States/UTs in a PPP mode with financial assistance from the Central Government.	Improvement in employability of the graduates/diploma holders in various streams,	5 years from the date of approval	
		Scheme for Ph.D Fellowship in ESDM and IT				3000 PhDs for ESDM (1000 Full-time +2000 Part-Time)	To generate 3000 PhDs for each of ESDM and IT/ITES sectors over a period	5 years from the date of approval	

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		Sectors				3000 PhDs for IT/ITeS (1000 Full-time +2000 Part-Time) 400 Young Faculty Research Fellowship to increase the attractiveness of faculty positions & future enrolment of PhDs	of 5 years, in order to promote innovation and development of new products in IT/ITES and ESDM sectors		
		Scheme for IT Mass Literacy				One e-literate person in l0 lakh households.	To make one person e-literate in each house hold.	December 2013	
		Scheme for Skill development in ESDM by involving States and UTs				To provide financial assistance for facilitating skill development for 10 lakh persons in ESDM sector by involving States/UTs through PPP model along with industry with the financial assistance from Central Government.	Improvement in employability of the students/unemployed youth,	5 years from the date of approval	
		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	5 years from the date of approval	

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							and professionals from banking and financial sectors. Creation of mass information security awareness		
		Digital Library Initiatives – • **Digitization / preservation and web enabling of Copyright free data available in physical form**				On-going Digitize: - 10-12 Million pages Providing bandwidth connectivity to IISc., Bangalore Hosting the DLI web site for accessing the digitized data	Strengthen Country's identity by digitally preserving the national heritage and intellectual output	March 2014	
						New Digitize around 10 Million pages Digitize, preserve and web enable Indian folklores	Strengthen Country's identity by digitally preserving the national heritage and intellectual output	March 2014	
		Internet Proliferation & Governance Virtualized Cloud				• Demonstration of high-speed traffic over cloud providing end-to-end services from the application to the physical layer.	Develop, deploy, test and validate light-trails and Omnipresent Ethernet layer to demonstrate - stand-	September 2013	Project was initiated in October 2010 with an outlay of ₹ 5.5824 Crores for

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		Computing Infrastructure using Light-trails and Very Fast Switching				• Creation of a security framework for cloud computing; • Demonstration of virtualization of resources over 100 km fiber; • Study of autonomic two stage control algorithm; • Implementation of security between virtual machines. • Implementation of admission control and of the two stage autonomic control algorithm and services over 8 node test-bed.	alone end-to-end service manifested for cloud computing needs; Intricacies of virtualization over a distributed infrastructure would be investigated.		36 months. The end-to-end service models will need market demands to become affordable for the common man.
		Design and Development of a Dynamic Firewall Solution				• Development of a dynamic firewall • Evolve adaptive mechanisms (behavior model); dynamic firewall rules; algorithms and mechanisms for validation and consistency verification of the dynamic rules; • Re-configuration of the firewall based on	Design and develop a dynamic firewall that shall provide mechanisms for firewall auto re-configuration, formulation of adaptive rules and ensures the rule and policy consistency.	March 2013 further Extension by six months	Project was initiated in April 2011 with an outlay of ₹ 2.2558 Crores for 24 months. It would take much longer to get the tool to be

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						consistent and validated set of rules as features of a dynamic firewall as a product.			accepted for real time deployment in networks and would remain in the research lab.
		Characterization of UDT for Bulk Data Transfer Applications in High Speed and Wireless Networks				• An API to demonstrate secure bulk data Transfer in High Speed and Wireless Networks using UDT as an alternative network protocol for Grid, Cloud and Peer-to-Peer applications. • Evaluating the performance with the identified applications for security enable UDT protocol and Testing on National Knowledge Network fabric.	Demonstration on usage of UDT for reliable bulk data transfer applications and UDT support for identified applications; Security enabled UDT APIs and Test report providing the performance & throughput details over NKN fabric and last mile wireless networks with Availability of pilot production facility in the organization.	April 2013 further extension by six months	Project was initiated in April 2011 with an outlay of ₹ 0.891 Crores for 24 months. Tool may need to be fine tined for end user direct use and tested for its specifications as per bulk data transfer needs.
		Global Internet Governance and Advocacy (GIGA)				Bringing out educational courseware on Internet and its Governance aspects. Including fundamental research in	Initiating and conducting fundamental and applied research to State and re-state	November 2013	Project was initiated in December 2010 with an outlay of ₹ 2.2105 Crores for

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						human interface technology. The institution will also undertake advocacy initiatives for industry, law agency and govt in the areas of Internet Governance based on the study carried out with policy makers, international organizations and experts in the domain area.	Legal Systems and Instruments and its interface with Internet Technology in every branch of Law Civil, Criminal, Evidential, Fiscal and International.		36 months. The efforts are too little and too less to match the fast paced developments at the global level on public policies and standards on the issues of Access, Multilingualization of Internet (domain names), Secure cyber communications, etc. Experts needed to prepare country position papers on cyber laws, Localization of contenet, Multilingualization of Internet, etc.
		Design and Development				Development of a Cooperative (PC &	Design and development of a	April 2014	Project was initiated in April

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		of a Cooperative High Performance Traffic GENErator for Time-Sensitive Network AnalYSis (GENESYS)				FPGA) High Performance Traffic Generator configurable & programmable module to generate / facilitate high speed data transfer capability also to enable pre / post processing and analyze network traffic. Also function as a network interface for high speed network and protocol wrapper between 40G Ethernet to OTU3.	platform to enable generation of high speed, low latency, realistic, highly resolute and precise network traffic and interconnect interface for next generation gigabit transport networks.		2011 with an outlay of ₹ 8. 47 Crores for 36 months. The equipment may not be industry ready and may be more in use for research labs..
		Testing and Deployment of IDN Tools, Maintenance and Up-gradation of Policies and Assistance to NIXI – C-DAC Pune				Deployment and Integration of the 7 languages approved by ICANN; variant tables and ABNF's for the remaining 15 languages; IDN policies developed in line with ICANN Creation of tools for prevention of scamming and phishing; alternative scripts, policies, tools like Floating keyboard and fonts etc.	Roll out of domain names in all the major Indian languages	May 2014	Project was initiated in June 2011 with an outlay of ₹ 3.1813 Crores for 36 months. With not much Indian language content and web hosting in the country in the domain names in Indian Languages may take more time to gain

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									market demand and viable for registrars and registries
		Establishment of Central Facility for Testing of IPv6 Applications & Equipments – ERNET India, New Delhi				Establishment of a facility by installing different IPv6 enabled equipments for audio, video and data communication and connecting through ERNET's IPv6 enabled backbone network for national and international connectivity.	The Centre/Lab will be central point for the purpose of facilitating institutions and users for their IPv6 deployment testing and analysing needs for IPv6 applications.	Feb 2014	Project was initiated in March 2012 with an outlay of ₹ 2.76 Crores for 36 months. The lab may not attract many customers due to slow pace of IPv6 adoption in the country.
		A Secure, Scalable and Interoperable Platform for Internet of Things(IOT) Amrita Univ. Kollam				• Design and implementation of a language based on asynchronous pi-calculus for programming IoT systems. • Addressing scheme for IoT objects in order to uniquely identify and address them. • Middleware communication layer for interfacing incompatible	Development of an engine to operate as a hub for resolving the non-conforming diverse devices to serve, underlying application and transport layer protocols.	March 2015	Project approvals under process for an outlay of ₹ 3.2393 Crores for 24 months. Real time field deployment may need concerted efforts

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						devices, while ensuring that the identity/discovery of any object, communication between objects, and handling of multi-object level triggers initiated by any event raised by a participating object in a secure and controlled fashion. • A multi-channel Real-time Big Data Analytical Engine capable of handling streaming data from multiple channels/domains at the same time process them on the fly to deliver instantaneous decisions.			
		Distributed Computation on Distributed Data: Theory and Practice - Indian Institute of Technology, Bombay				• Working code for possible use in practical applications in pervasive computing and to demonstrate promising solutions via a proof-of-concept implementation.	**Development of an algorithm** for distributed computing functions used in atmospheric models and related spatial phenomena including the **fundamental limits of distributed computing,** as a function of the	March 2015	Project approvals under process for an outlay of ₹ 1.1062 Crores for 24 months.

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							communication capabilities in a pervasive system.		
		IPv6 Deployment Pilot Project – Govt. of HP, and Gujarat				Deployment of IPv6 for Citizen Services	Proliferation of IPv6 adoption in the country by demonstration of specific applications in interested states.	August 2014	Project approvals underway .
		Establishment of India IGF Chapter				Establishment of a committee to look into matters related to Internet and prepare India's position on global public policy issues, technology standards, etc with the help of a a secretariat	Build up of a national consensual view of India on issues related to Internet for domestic and international forums.	December 2013	The approval processes are underway.
		ICT Vocational Centres for Skill Creation for the Children with Disabilities in the area of Information Technology Setting up				Around 100 ICT infrastructures at schools under Vocational Training Centres provided with special IT assistive tools and technologies and connected to LAN and Internet.	Access for the less privileged children in the proximity of these centres to learn ICT skills and enabling them to seek employment and earn livelihoods.	March'2013	To seek Extension

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		additional ICT centres to be identified in consultation with States/UTs for implementation.							
		Establishment of 250 ICT Centres in rural Rajasthan Operationalising ICT Centres in Government Schools in rural areas in the District of Ajmer and Jaipur.				Around 250 ICT Centres in the schools under MoU initiated with the State Educational authorities and ERNET India.	The joint project to empower rural students with ICT skills and Internet connectivity to access information pertinent to their career and was provided with Internet and ICT labs facilities.	Nov'2013	
		Prototyping a Virtual Scalable E-Infrastructure based Educational Services for Schools Carrying out Educational Cloud based implementation with Govt. KVS Schools in Delhi, Bangalore and Chennai.				Proof of Concept (PoC) pilot Test bed Infrastructure, R&D of System level services, and hosted Educational applications.	Avail and quantify Techno-Economic benefits of Cloud model for Schools, Migrate to IT generic approach of the Cloud and Expose Test bed to International research efforts.	March '2014	
		Establishment of				Next phase of setting up of	Entrepreneurs & Skills	March '2015	

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		the Bio-IT Collaborative facility at Institute of Bio-Informatics Applied Bio-technology (IBAB), Bangalore Setting up Bio IT Research & Training Facility and creation of professional manpower in Bio-IT field, R&D in Bio-IT area				the Ganit lab. in PPP model with private sector consortium to carry on the Research, Training programme in the area of Genome sequencing, DNA and Molecular Biology.	Development in Bio-IT in the country		
		Establishment of Knowledge Web Repository at State Institute of Encyclopaedic Publications (SIEP), Th'vm. Pilot test development and upgradation of Sarva.gov.in Web repository in Malayalam and contents.				Joint MoU Project with SPACE,Th'vm on Open source software initiative, and Meta data framework for the specific community and repository of contents in digital formats	Dissemination of Knowledge to the Content researchers and Common man with Kerala IT mission etc.	Pilot till Nov'2012 ongoing Extension sought.	

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5.	**NIELIT (erstwhile DOEACC)**	• To carry out HR Development in Information Electronics & Communication Technology (IECT). • To produce quality professionals through Long Term & Short Term Courses in the Formal & Non-Formal Sector.	1.70	10.75	146.66	**I. Training in NIELIT Centres** (a) to conduct training for **Formal Sector** Long Term Courses (M.Tech, MCA, BCA, PGDCA, Diploma in EE & CS etc.). (b) to conduct training for **Non-Formal Sector** Long Term Courses (DOEACC O/A/B Level courses, Bioinformatics O/A Level courses, Hardware Courses at O/A Level . (c) training for **Short Term** courses of duration less than one year including ITES/BPO.	2,000 students 10,000 students 15,000 students	Annual Exams July, 2013 & January, 2014 Semester wise exams Batch-wise exams	IECT Trained Professionals will be available for the industry for employment and will be contributing to the economy.
						II. National level Certification Scheme (a) To Accredit Training Institutes (b) Registration of the Candidates (c) To conduct National level Examination	65 numbers 40,650 numbers 1,15,500 modular candidates	On-going process On-going process July, 2013 & January, 2014 Annual/Semester-wise exams	-do-

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						III. IT Literacy Programme *(d)* To conduct National level Examination in Course on Computer Concepts (CCC) *(digitally signed on-line certification would be issued to the candidates on successful completion of CCC On-line Examination)* (e) To conduct National level Examination in Basic Computer Concepts (BCC) – 80,000 candidates	1,20,000 candidates	4 monthly exams and on every 1st & 3rd Saturday of a month on demand basis.	IECT Trained Professionals will be available for the industry for employment and will be contributing to the economy.
						IV. Projects to be undertaken subject to approval and/or release of funding by DeitY & other Departments and Ministries: (a) Training in IECT for rural candidates belonging to SC/ST/Women/ Minority. (b) e-Gov capacity building training projects.	70,000 candidates		

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						(c) Specific training programmes targeted for SC/ST candidates. (d) Training in IECT area for capacity enhancement in NE Region. (e) Capacity Building in the areas of Electronic Product Design and Production Technologies. (f) Intranet facility for NIELIT and its Centres. (g) Recruitment of employees for DeitY and its subordinate offices. (h) Setting up of Cyber Forensic Lab for Serious Fraud Investigation Office (SFIO), Ministry of Corporate Affairs, Govt. of India. (i) Support to DGCA for conducting online recruitment examination for recruitment of Pilots. (j) Setting up of NIELIT Centres/ Extension Centre at Ropar, Leh & Uttrakhand.			

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6.	**Education & Research Network (ERNET)**	To provide network infrastructure to connect Educational & Research Institutes to each other as well as to rest of the world.	-	0.01	90.00	1. Upgradation of existing Messaging Solution with provisioning of DR site at Bangalore. 2. Upgradation of SMTP Gateways for ERNET Network Infrastructure. 3. Implementation of Network Monitoring System at 7 PoPs of ERNET India. 4. Upgradation of Network Security infrastructure at various PoPs	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.	September, 2013	
		To carry out research in Collaboration with partner institutions at national and international level.				• Mobile IPv6: Testbed supporting flow mobility /Dual stack demonstration. • 6LoWPAN: Testbed with heterogeneous mote platforms setup and agriculture use-case in collaboration with ICAR under progress. • VSESS: KV schools to be provided with educational cloud	Experimental testbed setup to demonstrate flow mobility, WSN management research. Development of Centre of Excellence in IPv6 and training centres. Implement Virtual Scalable Educational Services based on cloud computing for	- - March, 2014	• Follow-up proposal on 6LoWPAN planned. • MIPv6 project extended upto April 2013 and follow-up proposal is being planned.

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						services. • Setting up Internet of things (IoT) test bed	Kendriya Vidyalaya Sangathan (KVS) Schools. R&D Collaboration with EU on Internet of things (IoT)	- -	
		To implement turnkey ICT projects for targeted user domains.				• Setting up of Digital Archival facility for Outcomes of the various Language Technology projects along with dependencies • To operate and maintain Internet/Intranet of 200 KVKs/ZPDs of ICAR	Online Web Portal will be developed. This will help to disseminate the various language technology projects so that R&D organisation can use the existing research work for further development of the product and even for developing new multilingual technology Operational dedicated captive CUG VSAT Network of ICAR with its Hub and NOC at Delhi & functional ICT infrastructure and VSAT connectivity at 200 KVKs/ZPDs facilitating access and	March, 2014 Ongoing activity extendable based on MoU	

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							dissemination of information on agriculture to the farming community of the country		
						• Continuation with upgradation of Digital Library Initiatives.	Upgrading the Repository of digitized data under the Digital Library project	August, 2013	
						• To operate and maintain of ICT infrastructure in 250 Schools in the rural areas of Rajasthan	To extend the learning opportunities provided by internet to rural school children	November, 2013	
						• Continuation of connectivity at Vidya-Vahini Community Informatics Centres in the Schools of Andaman & Nicobar (41 CICs) and Lakshdweep Islands (30 CICs)	To impact ICT based education & training in the schools and providing citizen Centric services to the local populace of the region	On going	

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7.	**Technology Development for Indian Languages (TDIL)**	The major objectives of the programme are: (1) To develop information processing tools to facilitate human machine interaction in Indian languages and to create and access to multilingual knowledge resources/ content. (2) To promote collaborative development of futuristic technologies leading to innovative products and		35.00		**<u>New Projects</u>** Development of Indian Language to English Machine Translation System for Judicial Domain	Machine Translation System for Indian Language to English for Judicial Domain	Dec 2013	Project being finalized
						Development of Voice based information Access in Indian Languages for Railways / Geospatial information	Speech Recognition engines for voice based web information access	Feb 2014	Project being conceptualized
						Semantic Web initiative in Indian Languages	Proof of Concept model of Semantic Web for Indian Languages	Feb 2014	Project being Conceptualized
						Research & Development for, promotion and proliferation of Localization in official languages, Dev. of localization tools showcasing Laboratory etc.	Promotion and Proliferation of Localization technologies in Indian Languages	Dec 2013	Project being Conceptualized
						Mobile Web standardization in	Mobile Web Standards, Mobile Ok	Dec 2013	Project being Conceptualized

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		services.				Indian Languages	validation tool in Indian Languages and their Reference Implementation for Indian Languages		
						Development of Automatic Speech Recognition for Agriculture and Weather Information – ASR Consortium –Phase -II	Augmentation of the present ASR systems for Agriculture and Weather Information	Dec 2013	Project being finalized
						Development of Pronunciation Lexicon for South Indian Languages Study.	Pronunciation Lexicon data as per W3C Standards in South Indian Languages	Dec 2013	Project being Developed
						Tree Bank Structures for Indian Languages	Alpha version of Tree Bank Structures for Indian Languages	Jan 2014	Project being initiated
						<u>On-Going Projects</u> 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	Enhancement of systems Performance of MT , OCR and OHWR and CLIA in Indian Languages	Dec 2013	Phase –II consortia projects are being implemented

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						Access (CLIA) [Systems with enhanced efficiency and more languages pairs]			
						Alpha version of Text to Speech integrated with Screen reader for 12 Indian Languages and TTS for 6 Indian Languages for Android based Mobile System	Enhancement of TTS System integrated with screen reader in terms of System Performance and TTS for Mobile devices	Jan 2014	Project under implementation
						Morphological Analyzer in Indian Languages	Alpha version of Morphological Analyzer in Indian Languages	Dec 2013	Project under implementation
						Natural Language Processing (NLP) Dashboard in Indian Languages	Alpha version of NLP Dashboard	Dec 2013	Project under implementation
						Development of annotated corpora for Indian Languages	Annotated corpora of 50,000 sentences each for 17 Indian Languages	Feb 2014	Project under implementation
						Development of Dravidian WordNet South Indian Languages	WordNet for 15,000 synsets each for 4 South Indian Languages	Dec 2013	Project under implementation
						Indradanush: Development of WordNet data of 25.000 synsets for 7 Indian	Wordnet data of 25.000 synsets for 7 Indian Languages	Dec 2013	Project under implementation

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			Non-Plan	Plan Budget	Comp IEBR				
						Languages			
						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	Dec 2013	Project under implementation
						Stake holders consultation and Validation of the following : Consolidation of inputs for internationalization in W3C standards namely CSS, PLS, SSML Xforms, Mobile Web, XHTML and E-Gov Linked Data under W3C India initiative	Web Internationalization, Standardization to enable Web in 22 Indian Languages	Jan 2014	Ongoing Standardization Activity
						Uploading of Language Technology Software Tools & resources to TDIL Data Centre	Software Tools & Resources developed under TDIL Projects are being uploaded to TDIL Data Centre regularly and disseminated for research purpose.	Feb 2014	Project under implementation.
						Support for CD user base	Unified Language CD	Mar 2014	Project under

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						Percolation of CDs to new spheres . Reviewing of CD Contents & also upgrades of open source regions. Development of Indian Languages fonts for Mobile handsets.	in 22 Indian Languages Mobile Fonts and Rendering engine as key component for enabling Mobile system with Indian Languages		implementation.
8.	**Facilitation of Setting-up of Integrated Townships**	Facilitation of Setting-up of IT Investment Regions (ITIRs) Projects for IT/ITES units in the Strates/UTs		0.10		Proposal to set-up ITIR have been received from States of Karnataka, Andhra Pradesh and Odisha. IT/ITES units and hardware manufacturing units will be set-up in the notified region.	Investment in setting-up of ITIRs in Karnataka, Andhra Pradesh and Odisha will generate direct and indirect employment. It will decongest existing cities and provide additional productivity.	Cabinet approval if expected by March, 2014	
9.	**Cyber Security (including CERT-In, IT Act)**	Security Policy, compliance & assurance	-	54.37	-	An enabling mechanism for achieving conformance with provisions of IT Act, statutes and other policy initiatives of the Government and regulatory bodies. Improvement in security posture of organisations and enhancement in the	Implementation of cyber security Crisis Management Plan (CMP) and security best practices in Central Govt. Ministries/Deptt. As well as States/UT	• Ongoing. • Status of compliance to be ascertained at periodic intervals. • Enabling Sectoral Crisis Management Plans to be	

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						ability of IT systems and networks to resist cyber attacks.	Verification of security posture, compliance and preparedness of Government and critical sector organisations Enhancement of IT product security testing facility and infrastructure.	developed and implemented. • Ongoing • Periodic cyber security drills to be conducted to verify security posture and compliance. • Empanel-ment activities to be conducted at periodic intervals • Audit of IT infrastructure of key organisations • Ongoing • Upgradation of existing test facility and enhancement of skills and capabilities	
		Security awareness, skill development and training				•Trained manpower to implement techniques to secure IT infrastructure. • Trained manpower to	• Specific training facilities, training modules and content development • Awareness and	• Ongoing, • Training	

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						collect, analyse and process digital evidence. Pre trained manpower will help in securing cyber space and check cyber crimes.	training programmes to facilitate information sharing to deal with crisis situations.	programmes on specific topics of cyber security to be organised	
		Security incident – early warning and response (CERT-In)				Enhancing the security of communications and information infrastructure in the country	• Rapid response, resolution and recovery • Security incident prediction, prevention and protection • Security assurance • Enhancement of security cooperation	• Ongoing. • Upgradation of CERT-In facilities and capabilities for crisis management and emergency response. • Realtime Malware tracking and analysis with special focus on virus/bots. • Real time response to cyber security incidents • Alerts, Advisories and vulnerability Notes	
		Enabling Legal framework for supporting E-Commerce and				A legal framework, which will instill confidence of the users and investors in the area of Information	• Legal Framework that can effectively support growth of E-Commerce and E-	• Ongoing • Enhancing the provisions of the existing legal	

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		E-Governance activities.				Technology in the country will be in place.	Governance in the country. • Operation and maintenance of Cyber Appellate Tribunal.	framework • Ongoing • Awareness programmes for adjudicating officers to be organized. • Disposal off Appeals relating to the Cyber Law	
10.	**Controller of Certifying Authorities**	To promote use of electronic/digital signatures for e-governance and e-commerce applications Awareness generation and Training programs in PKI	-	6.00	-	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	
11.	**Promotion of Electronics/IT Hardware Manufacturing**	Promotion of Electronics Hardware Manufacturing in the country.	-	100.00	-	(a) Setting up of Semiconductor Wafer Fabs for manufacture of Chips in India.	To encourage investment in electronics/ IT hardware manufacturing sector and also to provide	March 2014	Subject to availability of funds (a) An Empowered Committee (EC)

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							employment opportunities in the Country.		has already been constituted with the approval of Cabinet to make recommendations in this regard. The Expression of Interest (EoI) has been invited and EC is evaluating the responses. This will depend upon the business plan of the applicants and the kind of support required from the Govt.
						(b) To prove preference to domestically manufactured electronic products (including telecom equipment) in procurement of those electronic products which have security implications for the country and in Government procurement. The proposed activities are:- To review the progress of implementation of		March 2014	(b) The deliverable are subject to implementation of policy by other Govt. authorities and response of the Stake holders to increase the domestic manufacturing of quality products at reasonable cost.

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						the policy. To notify electronics products under this policy viz. smart cards, LEDs etc.			
						(c) To attract investment from appx. 50-100 units under M-SIPS scheme which has been notified in Gazatte of India in July 2012 after the approval of Cabinet.		March 2014	(c) The applicants are required to undertake conforming action as called for. Further, the disbursement of subsidy to the selected applicants will depend on their attaining financial closure, the NPV of investment exceeding the threshold value and other conditions including furnishing of requisite information by the applicants and recommendations of Appraisal Committee and thereafter decision

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									of the Cabinet.
						(d) In accordance with the Cabinet's National Policy on Electronics, 2012 (NPE 2012), "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 April 2013. To take action for obtaining the necessary approval for operationalising / implementing this Scheme.; recognition of labs; engagement of agency for surveillance ; creating portal for managing the scheme and creating awareness		March 2014	(d) The action concerns a number of Govt. Departments and requisite approvals. Further, the activity needs to be supported by a mechanism by creation of posts, response of the stakeholders etc.

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						about the process.			
						(e) To aggressively market India as an investment destination for ESDM among leading Nation and Companies. This includes engagement of a reputed, international strategy consulting organization to develop and implement key strategy for aggressively marketing India as an investment destination for ESDM. Further activities are Round Tables, Road shows, Exhibitions and Events are planned for individual verticals of electronics.		March 2014	e) The implementation of the proposal would depend upon the appraisal and approvals of the concerned Govt. Departments.
						(f) A Communications and Brand Building Campaign for promotion of ESDM sector in India has been launched with the objective to build "Made in India" as leading global brand in ESDM and increasing		March 2014	(f) It depends upon the evaluation and requisite approvals. Further action/cooperation on the part of other Govt. Departments viz. DAVP etc. is also essential. Communications

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						awareness regarding initiatives taken by Government to promote investments in ESDM sector. A Communications Need Assessment Study to help orchestrate the Campaign is also underway and action would be undertaken to examine its recommendations and implementation thereof.			Need Assessment Study has been commissioned. Based upon the outcome of the Study and requisite approvals, deliverables would be achieved.
						(g) To take further action for setting up of a dedicated "Electronics Development Fund " for promotion of Innovation, R&D, Indian IPR and development of Indian Microprocessor		March 2014	(g) The implementation of the proposal would depend upon the appraisal and approvals of the concerned Govt. Departments and decision of the Cabinet.
						(h) Implementation of Electronics Manufacturing Clusters (EMC) Scheme, to offset disabilities faced by Electronics Systems		March 2014	(h) The deliverable are subject to the response from stakeholders on this promotional scheme and also

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						Design and Manufacturing (ESDM) units and to attract investments in the sector such as:- • Notify 10 Brownfield clusters. • To accord in-principle approval to five Greenfield clusters.			depending upon the requisite approvals and clearances from various authorities.
						(i) Setting up of a National Electronics Mission (NEM) to promote Electronics System Design Manufacturing in the country and also Creating and strengthening the institutional mechanism for promoting ESDM activities by recruitment of specialized manpower.		March 2014	(i)-(l) Depending upon the views of concerned Govt. Department and competent authority, the requisite action would be taken subject to requisite approvals are in place.
						(j) To conduct an assessment study to identify Skills Gaps in the Electronics System Design and Manufacturing sector		March 2014	
						(k) Setting up one centre of Excellence in ESDM		March 2014	

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						sector.			
						(l) Initiation of development of at least four ESDM products. To take action for promoting export of ESDM products.		March 2014	
12.	**Standardisation Testing and Quality Certification (STQC)**	Establishment of Quality Assurance Infrastructure in the country to facilitate quality products & services at par with global standards and practices	7.00	120.00	-	1.Up gradation of Test & Calibration facilities to cater to state-of-the-art products with emerging technologies	Up graded test and calibration facility to meet the demand industry.	March, 2014	
						2 Revenue target realization.	Revenue of ₹ 50 crores approx. likely to be generated.	March, 2014	
						3. Maintenance & upgrade of IT test tools and infrastructure	More than 50 eGov projects will be evaluated	March, 2014	
						4. BIS approval for four STQC labs for safety & EMC	Facilitating Regulatory requirements for Compulsory Registration Scheme	March, 2014	
						5. Upgrade testing and		March, 2014	

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						Auditing facilities for security of Network, systems, applications and websites	Seeking accreditation for CC test facility		
						6. Strengthening of SPV panels and products testing at two STQC labs	Infrastructure support for quality assurance of SPV products to meet requirements of national Solar Mission	March, 2014	
						7. National Capacity Building in Quality management System, Information Security and Practice Oriented skill based trainings	More than 300 training programs to be conducted across India	March, 2014	
						8. Progress of construction activity of STQC Building at Noida.	Construction activity of first phase to be completed.	March, 2014	
						9.Human Resource Development by conducting DOEACC 'O' & 'A' level courses in NE region.	SC/ST/OBC/women / weaker section of society and unemployed youth of NE region will be benefited in Computer field.	March, 2014	

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13.	**Software Technology Parks of India (STPI) & EHTP)**	To promote exports of electronics & IT	-	52.50	204.53	To establish 10 new STPI Centers	To promote exports of IT-ITES from the country and generate employment and provide statutory services to the STP and EHTP units	On Continual basis	STPI is having 53 centres across the country and over 5,000 units are operating under STP scheme and over 100 units are operating under EHTP scheme.
14.	**Centre for Development of Advanced Computing (C-DAC)**	**High Performance Computing (HPC) and Collaborative Computing**	3.00	205.00	242.00	• Preparation for Petascale Computing • HPC Applications	• R&D towards Architecture of Petascale Computing • Advance research in domains of Science and Engineering with the use of PARAM systems as follows: ▪ Atmospheric and Environmental Science ▪ Material and Structural Engineering ▪ Computational	March 2014 March 2014	

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		Garuda				• Power Optimization solutions for High Performance Computing.	• Power aware scheduling; power profile of HPC systems; Power electronics for HPC Fluid Dynamics ▪ Geophysical ▪ Bio-informatics	March 2014	
						• Scientific Cloud Framework	• A framework for scientific cloud computing	December 2013	
						• Garuda 2.0 next phase of Grid project	• Enhanced Garuda resources, cloud integration, etc.	2014	
		Multilingual Computing				• Speech to Speech Machine Translation System	• Development of Speech to Speech translation system among English and Indian languages for limited Domain	March 2016	
						• Optical Character Recognition (OCR)	• Development and deployment of new emerging tools and capabilities	March 2013	

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						• Internationalized Domain Names (IDN)	• Localization of domain names in Indian languages	December 2013	
						• Machine Translation System (English to Indian Language)	• Deployable version of English to Indian Language System	June 2014	
						• Analytic tools for Sanskrit and Vedic resources		2014	
		Professional Electronics				• Mobile Ad hoc Network (MANET) & Advanced Network Monitoring	• Development of technologies and solutions for advanced radio and network communications to address the military and civilian communications	December 2013	
						• Electronics for Agriculture and Environment	• Technologies for electronic Nose-Tongue-Vision for various agricultural commodities	March 2014	
						• Intelligent Transportation	• Red Light Violation detection system	2013	

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						System • Conditional Access System	• Design and development of Indigenous CAS system	2015	
		ICT for Social Development				• Mobile Computing	• Development of applications, tools and middleware, for service delivery gateway through mobile computing to reach masses	March 2014	
						• Accessibility Solutions	• Adaptive learning support for autistic children	December 2013	
						• Develop framework for crowd sourcing		2014	
						• Expansion of InDG to 2 lakh pages		2014	
						• Software tools for homes for old age people, children, etc.		2014	
						• Decision support system	Decision support system for drug and pathology	2014	

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							management		
		Trust, Protection, Security and Detection Technologies				• Development of Security Solutions for SCADA Systems	• SCADA Security solutions to be developed and pilot tested in Power GRID in southern region	September 2013	
						• Biometric solution for Aadhar	• Fingerprint matching solution for UIDAI usage	2014	
						• Cloud Security Framework	• Solution to address common security concerns in cloud	2014	
						• Setup SCADA Security Research Lab		2014	
						• Unified Threat Management Framework	• Development of simulation facilities for security, solutions for phishing and routing problem, etc.	2014	
						• National e-authentication framework	• Integrates the multitude of tools involved in Security Management	2014	

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		Ubiquitous Computing				• Wireless Sensing Network	• Body Area Networks and application in healthcare; Wireless sensor network platform and applications	March 2014	
						• Perception Engineering for Medical, Agricultural, Environmental and Social Applications		March 2014	
						• Development of high speed traffic generator		2014	
						• Ubiquitous Speech Collection and Analysis System for Surveillance	• WSN at C-DAC Noida campus to monitor and analyse audio captured	Sept, 2014	
		Education Technology				• Development of next generation e-learning and m-learning tools and technologies	• Rollout of Anurup adaptive instruction system for distance learning courses	December 2014	
						• Use of augmented reality technology for m-learning	• Online labs for schools	December 2014	
						• Development of e-courses in Health and Medicinal Sciences,	• Develop AR book and AR board application	2014	

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						for North East			
15.	**Technology Development Council Projects (incl. ITRA)**	**IT for Industrial Applications** To strengthen local base for R&D/ application in Electronics and IT in the field of Industrial Electronics, Agriculture and Water Resources.		85.00		**National Mission on Power Electronics Technology Phase II (NaMPET II)** • Initiation of three new exploratory/advanced technology/ demonstration projects • Up gradation of Infrastructure at Nodal Centre- setting up of Green Power Lab • Holding of 3 Short-term Courses in different areas of Power Electronics • Organization of Second National Workshop	Enhancement of R&D infrastructure and design capability in the area of power Electronics Technology contributing to design led Electronics hardware manufacturing	June, 2013 Oct., 2013 July, 2013 Sept., 2012 Nov.2012 Jan., 2014	
						Application of Electronics for Agriculture & Environment (e-AGRIEN)			

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						• Field trials of Obnoxious Gas Monitoring System in industry	Enhancement of R&D infrastructure and design capability and demonstration on application of electronics for agriculture and environment	June, 2013	
						• Filed deployment of WSN Decision Support System in Tea garden		Aug., 2013	
						• Organization of Workshops for awareness creation about the System and Technology developed under the programme		Dec., 2013	
						Automation System Technology Centre (ASTeC)			
						• Follow up on TOT related activities for the developed technologies in ASTeC project.	Availability of cost effective solutions of Automation Technologies to Indian user & manufacturing industries	Sept., 2013	

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						Intelligent Transportation System (ITS) • Completion of testing and field trials of all technologies developed under ITS project • Follow up on TOT related activities for the ITS products developed	Demonstration and availability of cost effective IT solutions for the road transportation sector	June, 2013 Sept., 2013	
		Information Technology in Emerging Areas To develop technologies for ubiquitous computing applications and Free & Open				Ongoing projects in Free & Open Source Software (FOSS) and Ubiquitous Computing will be supported to achieve their targets.	New software applications, algorithms and tools will be developed.	March, 2014	
						BhartiSim simulator for many core processors with support for aggressive speculation, advanced memory system	Development of software simulator for microprocessor design.	January 2014	

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		Source Software (FOSS).				and parallel execution.			
						Initial design of component based Operating System and Linux Kernel Programming Plugin suite	Development of a new operating system	March 2014	
						New R&D projects will be initiated.	Support research and development activity in the country for the development of new technologies and solutions to some challenging problems in the area of ICT.	March 2014	
		Information Technology in Emerging Areas. To promote research & foster development in the Emerging areas of IT such as - Ubiquitus Engg. - FOSS				Application Development and research in Perception Engg. in following areas : • Assisted/enhanced living • Tele presence for distance education • Brain-machine interface	Enhancement of research and application development in the area of Perception Engg. leading to Research publications, patents, technology demonstration, prototype demonstration.	March 2017	
						Ongoing projects would be progressed in Bioinformatics for	Research publication, patents, databases for scientific community.	April 2014	

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		- Bioinformatics -Perception Engg Etc.				developing algorithums, high end computational tools including databases to support drug discovering. All software tools, databases, algorithums developed in above initiatives would be hosted as open source for free access by scientific community and also would be published in national and international research journals.			
						Ongoing project to be progressed in Virtual Observatory for hosting VO applications for free usages by researchers, educational users of the nation as well as for international users.	VO India products for multiple purpose usage deployed on VO-India servers at IUCAA, Pune using the NKN	July 2013	
		High Performance Computing Promote R&D in High Performance Computing,				High fidelity computational design of engineering systems on HPC platforms. • Computation of Multi-Phase Flows and Aero acoustics.	Enhanced R&D capabilities in High Performance Computing, Green Computing and Digital Preservation.	March, 2015	

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		Cloud Computing, Mobile Computing ,Green Computing and Digital Preservation Technologies and their Applications				• Real-Time Sign Language Computational Algorithms. • Nonconforming Spectral Element Methods for Elliptic Interface Problems. • Computational Analysis of Neutrophil Chemotaxis in Response to Multiple Cues. • Hybrid CPU/GPU-CUDA Parallel Algorithms for Algebraic Problems			
						Centre of Excellence for Digital Preservation (ongoing). • Standards for Digital preservation. • Preservation of E-district data, E-courts data, Government records and Cultural Heritage		March, 2014	

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						records.			
						ICT for smart buildings with low carbon emissions (ongoing) • ZigBee enabled Devices for energy measurement and flow monitors. • ZigBee enabled Temperature, Humidity and Air quality interfaces. • ZigBee enabled Controllers and Routers. • ZigBee enabled building automation network.		July, 2013	

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						A New Distributed Computing Framework for Data Mining • A domain specific programming language for modeling data mining problems. • Application Programmer's Interfaces (APIs) for enabling users/researchers to plug in their own algorithms as well as to provision resources. • A tailor made, high performance data mining solution for practical problems in agriculture specifically in Agricultural Bioinformatics.		October 2015	
						Framework for dynamic resource allocation & efficient scheduling strategies to enable cloud for HPC applications • Software Technology which enables Cloud for HPC applications and Research publications on the subject.		December 2014	

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		Promotion of Innovation & Intellectual Property Rights (IPR)				The ongoing Technology Incubation & Development of the Entrepreneur (TIDE) scheme would support 27 institutes of higher learning for incubation of 80 technology start-up companies.	Promotion of innovation in ICTE by supporting incubation activities and nurturing of entrepreneurs.	March, 2014	
						IPR facilitation support to DeitY Societies and Grantee Institutions. Extension and Implementation of SIP-EIT Scheme to provide support to SMEs for filing International Patent -5 cases to be processed	Fostering IPR ecosystem in ICT sector by way of providing facilitation services, awareness creation and development of requisite tools and databases.	March, 2014 March, 2014	
						Creating IPR awareness in E&IT sector through • 20 IPR clinics/ Seminars • Customization of WIPO's Multimedia tool "IP Panorama" for Indian SMEs. • Development of Multimedia course for IP teaching		March,2014 Dec, 2013 Dec. , 2013	

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						Initiation of New projects for augmenting IPR infrastructure through ICT technologies such as • IP exchange framework • Establishment of Prior Art Search Centers & • Development of Digital Rights management tools		Oct, 2013 June 2013 May 2013	
16.	**Micro-electronics and Nano-Technology Development Prog.**	To establish nanoelectronics & microelectronics base in the country through setting up of centres of excellence, technology development & capacity building through	-	100.00	-	16 ongoing projects in nanoelectronics would be continued. 2 nanoelectronics projects will be initiated in the identified thrust areas. • One project would be initiated for the North-East • Brainstorming with industry would be taken up.	It would enable creation of a strong R&D base in nanoelectronics in the country	One by December 2013 and one by February 2014 March, 2014 March, 2014	

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		sponsored R&D projects in the area of nanoelectronics, nanometrology, Microelectronics, and MEMS.				2 microelectronics projects will be initiated.	It would enable creation of a strong R&D base in microelectronics in the country	One by December 2013 and one by February 2014	
17.	**Society for Applied Microwave Electronics Engineering and Research (SAMEER)**	Research & Development activities in the areas of its expertise	3.00	50.00	43.00	**<u>R&D in Core Areas</u>**	**Research leading to expertise in** Altimeter range measurement system	Hardware development for test bench **Continuing** April 2012-March 2014	
							Synthetic aperture radar at X band	System at X band as technology demonstrator **Continuing** April 2012-March 2015	
							Development of THz technology for imaging and spectroscopy	Technology for THz imaging and spectroscopy **Continuing** April 2012-March 2015	
							Development of high resolution imaging system using spectral	OCT for bio-imaging application	

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							domain-optical coherence tomography(SD-OCT)	**Continuing** April 2012-March 2015	
							Development of high power Solid State Amplifiers	Technology development **Continuing** April 2012-March 2015	
							Development of gyrotron subsystems	Subsystem design and development **Continuing** April 2012-March 2015	
							Studies on control of intra-system EMI in mixed signal circuits for SOP and other miniaturization needs.	Analysis of intra system EMI problems in mixed signal systems **Continuing** April 2012-March 2014	
							Development of Vacuum assisted RF Dryer	Vacuum assisted RF dryer system **Continuing** April 2012-March 2014	
							Design of Ultra wideband (UWB) Antennas	Ultra wideband antennas **Continuing**	

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								April 2012-March 2014	
							Millimeter-wave Radiometer	System development **Continuing** August 2011-July 2014	
							Active Aperture for Wind Profiler	Active aperture radar **Continuing** October 2010-September 2013	
							Development of GaAs based Quantum infrared Detectors in the transmission window of 8-12 microns	Technology development for QW infrared detector **Continuing** August 2011-July 2014	
							Growth of III-V Multi-Junctions by Molecular Beam Epitaxy	Multi-junctions material growth **Continuing** August 2011-July 2014	

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							Susceptibility of Electronic Devices for HPEM and UWB sources	Susceptibility of Electronic Devices **Continuing** October 2010-September 2013	
							Direct writing of Optical waveguides using femtosecond laser	femtosecond laser based direct writing of waveguide devices **New** April 2013-March 2015	
							Innovation in antenna design for special applications	Antenna design for special applications **New** April 2013-September 2014	
							W band components frequency tripler, attenuator, LNA	W band components **New** April 2013-March 2015	
							High power amplifier at X band	High power amplifier **New** April 2013-March 2015	

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							RF subsystem, miniaturization of RF modules and base band development for digital S band transponder	RF subsystem, miniaturization of RF modules **New** April 2013-March 2015	
							Eight/Four arm spiral antenna	spiral antenna **New** April 2013-March 2015	
							Development of Direct phase modulators and PLDRO	Direct phase modulators **New** April 2013-March 2015	
		To engage in product development driven by technology and user requirement			31.00 (EBR)	Stratospheric Tropospheric (ST) Radar	State-of the art atmospheric radar for getting wind profiles up to 16-20 kms	**Continuing** Nov, 2010-Oct 2014	
						Left Handed Maxwell (LHM) systems	Fabrication of new metamaterial structures and experiments	**Continuing** January 2010-Jan 2014	
						Coherent transmitter-receiver at W-band	Engineering of millimeter wave	**Continuing** March 2010-March	

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							modules and prototype system demonstration	2014	
						Modeling and simulation of MMW transceiver for imaging application	Simulation studies for imaging application	**Continuing** July 2011-July 2014	
						DSP controlled IR laser absorption based gas sensor	Gas sensor fabrication	**Continuing** October 2011-September 2013	
						Fire control system for MDL, GRSE and Fincanteri	Fire control system for MDL, GRSE	**Continuing** December 2011-November 2013	
						S and C band TT & C Transponders	S and C band Transponders	**Continuing** March 2007-December 2013	
						Design and development of window for 42 GHz 200 kW/ long pulse gyrotron	Gyrotron window for 42 GHz	**Continuing** April 2006-September 2013	
						Development of Microwave heating system for denitration of heavy metal nitrate solution	Microwave heating system	**Continuing** July 2012-January 2014	
						Specialised antennas		**Anticipated**	

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						Microwave radiometer for Tropospheric Profiling of Temperature and Humidity for MOES		**Anticipated**	
						Ka-band Polarimetric Doppler Radar for Cloud Profiling for MOES		**Anticipated**	
						Development of wrap-around multifunctional antennas		**Anticipated**	
		To provide test and measurement services and to undertake training and consultancy in areas of core competence.				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. Incase of non- Compliance, Offer EMC design assistance. **Timeline:** Continuous activity	
		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	Awarding contract, execution and creating infrastructure	Timeline : 18-24 months	

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						SAMEER , Powai campus Construction of Utility building at SAMEER, Powai Campus and Site development.			
		To keep pace with rapidly changing technology by continuous training of its manpower				Deputation of staff in India/Abroad to attend workshop, conference and seminars. To invite experts to deliver talks/seminars at SAMEER Centres.	Interaction with national and international experts and exchange of ideas	Timeline: Continuous activity.	
18.	**Convergence, Communication & Strategic Electronics**	To undertake and support R&D projects for the development of Convergence, Communications and Broadband Technologies	-	30.00	-	Initiation of around 12-15 projects in development/application of the next generation wired /wireless communication & broadband technologies such as Next Generation Communication 4G and beyond, Green Communication & radio access technologies, Cellular Cognitive radio, Convergence of Communication with Social Networking, Internet of Things & Machine to Machine ,Multimedia Satellite Communication,	The R&D will lead to establishing indigenous capability in emerging technologies.	On an average 4 projects in quarter are proposed to be initiated. The projects are generally of 1 to 3 years duration.	

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						Convergence of Cloud with Communication, Development of IP based products/services, ICT applications in strategic activities with focus on safety, security and surveillance. Transfer of Technology.			
19.	**Media Lab Asia**	To undertake and facilitate Research, Development and deployment activities	-	26.27	-	• 4 projects will be introduced in the following areas: ICT – Empowerment of Differently abled ICT – Healthcare ICT – Livelihood enhancement ICT – Education	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 introduced during Apr – Sept 2013 2 projects will be introduced during Oct 2013 – Mar 2014	
						• 4 projects will be completed		The projects will be completed as per schedule.	
20.	**Component & Material Development**	• To support infrastructure development and R&D and	0.60	30.00	16.40	• To initiate new projects on thulium doped 'all-fiber' MOPA for medical	• For medical & sensor application (railway), green energy generation,	May, 2013	

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	Programme	technology development projects for the development of Electronic Materials at C-MET • To support development and initiatives to minimize the environmental issues in electronic products • To nurture photonic technologies relevant in IT and optical communication as well as develop technologies in the broader application areas of Photonics through				application, fiber Bragg grating sensor for condition monitoring of railway catenary-pantograph structure, polymer nano-composite based photovoltaic, setting up of pilot scale production of aerogel supercapacitors for electronic applications, graphene supercapacitors for power electronics	energy storage		
						• To successfully complete the on-going projects on broadband EMI shielding, carbon aerocapacitor, hybrid solar cells, environmentally sound metal recovery from PCB, piezoelectric multilayer actuator micro valve	• To develop supercapacitor, Piezoelctric Multilayer Actuator, broadband EMI shielding, green energy generation,	December, 2013	
						• To monitor the progress of on-going projects on pilot production of *Nano*-PZT compositions &	• To develop recycling technology for PCB, & plastics, green energy	March, 2014	

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		sponsored R & D projects				piezoceramic components, polymer based chemical sensor, flexible thin film transistors, *value added products from WEEE plastic*prototypes aprons, glass sheets and curtains from lead free x-ray absorbing materials, based Photonic Glasses are being developed at CMET, Pune, University of Pune, Solar cells: based on chemical bath deposition, Nature-inspired low cost organic and their nano composites based, & quantum dots and organic	generation, flexible transistor, lead free x-ray absorbing apron		
						• Advanced optoelectronic applications, sustainability and upgradation of RoHS test laboratory, MWCNT filled polycarbonate/	• To develop efficient lighting for energy saving, optical sensing for high temperature & wave front sensing & manpower development	May, 2014	

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						polypropylene polymer nanocomposites fore.m. interference shield, Fabrication of blue OLED, distributed strain & temperature sensing optical fibers, light extraction technology for white OLED, UV emitting diodes, optical isolators, Fiber bragg grating for high temperature measurement, high speed modal wavefront sensor of light beams & photonic research fellowship programme			
		To support R & D projects for the development of Electronic Materials				**Integrated Electronics Packaging** • Development of basic ferrite materials for integrated applications in LTCC • Development of LTCC based accelerometer / gyro packages		March, 2014	
						Nano scale Materials and Composites • Preparation of		March, 2014	

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						quantum dots • Nanocomposites as lead free X-Ray absorbing materials			
						Ultra high purity materials • Wide band gap (WBG) SiC single crystals. • High purity Ga and its alloys / crystalline compounds.		March, 2014	
						E-Waste management • Environmentally sound methods for recovery of metals		March, 2014	
						NABL accredited facilities • Services to industrial sector		March, 2014	
						Materials for Renewable Energy • Nanocomposites for solar cells • Nanostructured materials as a Photocatalyst for hydrogen generation • Development of graphene based super capacitors for energy		March, 2014	

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						storage			
						Materials for sensors and Actuators • Development of piezoelectric multilayer actuator • Development of low temperature piezo composition		March, 2014	
21.	**R&D in Medical Electronics & Health Informatics (erstwhile Electronics in Health and Telemedicine)**	Development of medical electronic equipment, rehabilitation devices and related software for the sector.	-	10.00	-	Completion of benchmarking of Batch Fabrication Facility for Linear Accelerator (LINAC) machines at SAMEER, Mumbai	Facility for production of LINAC machines will become operational	June 2013	Unforeseen delay in benchmarking of the facility by third party.
						Signing of TOT agreement of indigenously developed medical electronics products.	Commercialisation of LINAC machine technology will be initiated.	June 2013	There could be delay due to unforeseen disagreement with industry partner taking technology.
						Deployment of four Linear Accelerator machines for cancer treatment.	Creation of facility for cancer treatment at four hospitals	September 2013	Commissioning of the LINAC machine is linked with site preparation at hospitals and approval by

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						Initiation of new R&D projects in the area of Medical Electronics & Health Informatics areas	Launching of new projects in identified thrust areas	March 2014	AERB. --
22.	**Others**	• Secretariat – Economic Services	32.30	45.00	-	• To meet running expenditure of the Secretariat and Plan Schemes	• To run office smoothly.	On continual basis	-
		• Foreign Trade	0.80	-	-	• CST re-imbursement of STPI units	• Export promotion		
		• Exhibitions	3.10	-	-	• To organise exhibitions abroad for promotion of Trade	• Trade promotion		
		• Others - Seminars/ Workshops	0.50	-	-	• To organise seminars/workshops for development of electronics in IT	• Development of electronics in IT		