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REVIEW OF PAST PERFORMANCE DURING 2014-15 (up to 31.12.2014)

Sl. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2014-15 (Rupees in crore)			Quantifiable Deliverables / Physical Outputs	Projected Outcomes	Processes/ Timelines	Status as on 31.12.2014
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1.	e-Governance & National e-Governance Action Plan (NeGAP)	National e-Governance Plan (NeGP) was approved by the Government on 18th May 2006 with a common vision, implementation methodology and management structure. It comprises 31 Mission Mode Projects (MMPs) having a singular mission to make all Government services	-	1230.00 (475.00 + 755.00)	-	<p>Establishment of SWAN:</p> <p>SWAN proposals from 34 States/UTs have been approved and SWANs have been made operational in 34 States. The States are utilizing the core infrastructure of SWAN for providing the closed user connectivity to various Government offices in the State. These offices access their applications through SWAN in secured environment hosted at State Data Centres (SDCs).</p> <p>The SWANs in 34 States i.e. Andhra Pradesh, Chandigarh, Chhattisgarh, Delhi, Gujarat, Goa, Haryana, Himachal</p>	Implementation of SWAN in remaining States/ UTs i.e. Jammu & Kashmir, , Andaman & Nicobar Islands.	All SWANs are expected to be operational by March 2016.	<p>SWAN proposals from 34 States/UTs have been approved and SWANs have been made operational in 34 States. The States are utilizing the core infrastructure of SWAN for providing the closed user connectivity to various Government offices in the State. These offices access their applications through SWAN in secured environment hosted at State Data Centres (SDCs).</p> <p>SWAN integration with NKN</p> <p>SWAN has been integrated with NKN in 29 States/UTs, namely Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chandigarh, Chhattisgarh, Delhi, Goa, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Puducherry, Punjab, Rajasthan,</p>

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		<p>accessible to the common citizen in his/her locality, through efficient, transparent and reliable mechanisms. To realize the vision of NeGP, the Department of Electronics and Information Technology (DeitY) has been entrusted with laying an elaborate common ICT infrastructure platform for the use of all</p>				<p>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, Mizoram, Nagaland, Meghalaya Rajasthan Dadar & Nagar Haveli, Daman & Diu have been operational. Implementation of remaining States/UTs SWANs is at various stages of Implementation.</p>			<p>Sikkim, Tamil Nadu, Tripura, Uttar Pradesh Uttarakhand, Mizoram, Nagaland and West Bengal.</p> <p>NKN integration with SWAN at district level has also been initiated and at present 125 districts in Eight States, namely Chhattisgarh, Kerala, Madhya Pradesh, Assam, Manipur, Pondicherry, Jharkhand and Rajasthan have been integrated with NKN.</p> <p>Bandwidth Utilisation 27 States/UTs are utilizing more than 60% of bandwidth of the existing link capacity. These are Andhra Pradesh, Bihar, Chandigarh, Chhattisgarh, Delhi, Goa, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Lakshadweep, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Puducherry, Punjab, Sikkim, Tamilnadu, Telengana,</p>

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		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. The plan is being implemented at the central,							Tripura,Uttarakhand,UttarPradesh,West Bengal Monitoring of SWAN by TPA To monitor the performance of SWANs, the Department has mandated positioning of Third Party Auditors (TPAs) in the States/UTs. As on date, 29 States, i.e. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Dadar & Nagar Heveili, Daman & Dui, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Lakshadweep, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Puducherry, Punjab, Rajasthan, Tamil Nadu, Tripura, Uttarakhand, Uttar Pradesh and West Bengal have empanelled the TPAs for monitoring the performance of the SWANs in the respective States/UTs. Remaining States/UTs are in the process of empanelment of

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		state and local Government levels. Under the programme, a 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 components and also in							TPA.

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		most of the Mission Mode Projects.							
						<p>State Data Centres: 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</p>	<p>Secure and reliable sharable infrastructure to host data and applications</p> <p>State Data Centre will help in providing efficient</p>	<p>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</p>	<p>23 SDCs have been declared operational. Implementation of SDC is in progress in 2 States. 5 States are undergoing bid process management for selection of a Data Center Operator (DCO), and 3 States are in the process of finalizing their SDC RFPs to initiate a</p>

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						approved by the Government at a total outlay of Rs. 1623.20 crore 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 completed.	electronic delivery of G2G, G2C and G2B services.	engaged by all States/ UTs.	competitive bid process. 2 States have opted out of the scheme. 17 States are utilizing more than 50% of the SDC infrastructure (percentage of rack space utilized). Further, in order to make SDCs Cloud enabled, DeitY has sent a template RFP to select states for initiating a bid process for Cloud enablement in the SDCs.
						Common Services Centres (CSCs): 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	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	The projected deliverables would be achieved by March 2014	128,852 CSCs have been rolled out covering 35 States/UTs. A total of 1,12,952 CSCs are connected, out of which 46,059 CSCs are using BSNL connectivity, 23,807 are using VSATs, 21,220 are using data cards and the remaining 21,866 are using other forms of connectivity. As per the decision taken in

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						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 Rs. 856 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).	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 10th Empowered Committee meeting, guidelines have been issued by DeitY to further streamline and expedite the process of integrating CSC like kiosks with the CSC scheme. A total of 43,596 CSC like kiosks are likely to be integrated with the CSC scheme. A DeitY-CIPS assessment study carried out in seven states. To address the power shortage problem at CSCs, it has been proposed that State Designated Agencies (SDAs) in the north-east and difficult states may provide solar power backup to CSCs facing acute power problems including non-availability of power for more than 4 hours in a day or bad quality of power. Under the scheme, the Ministry of New &

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									Renewable Energy (MNRE) would provide 90% subsidy on the capex of complete solar power systems required including comprehensive maintenance for a period of 5 years. The remaining 10% of the subsidy would be provided by the State Government. MNRE has already approved proposals of 4 states (Manipur, Meghalaya, Mizoram and Nagaland and 3 states (Arunachal Pradesh, Himachal Pradesh and J&K) have submitted their proposals for consideration to MNRE. Two states (Uttarakhand and Tripura) are expected to submit their proposals in FY 2014-15.
						State Portal, SSDG, eForms : Facilitating Services through CSCs by enabling	Easy, anytime and anywhere access to e-Gov services for citizens.	By March 2014, the following will be achieved: • At least 5 additional	<ul style="list-style-type: none"> • DPR and funding was approved for Chandigarh, Daman & Diu and Dadra Nagar Haveli. • 3 UTs (Chandigarh,

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						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 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	Reduction in number of visit to Government offices for availing services	states/UTs shall be made live. DPR proposal for at least 4 more states/UTs shall be approved.	Daman & Diu and Dadra Nagar Haveli) floated RFPs for the selection of the Implementing Agency for the project. <ul style="list-style-type: none"> 6 states have gone live (Andhra Pradesh, Madhya Pradesh, Chhattisgarh, Rajasthan, Bihar and Arunachal Pradesh).

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						<p>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, the services delivery gateway, gap infrastructure and training. Project proposals approved for 31 States/UTs and Rs. 120.93 Crores released to the states/UTs Out of the approved 31 states/UTs proposals, 28 states/UTs have</p>			

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						<p>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 implementation phase. 3 States/UTs are in the process of signing contract with IA.</p>			
						<p>e-District e-District Mission Mode Project proposes integrated and seamless delivery</p>	<p>Selection of Implementing Agencies for all States/ UTs. Implementation</p>	<p>By March 2014, e-District project will be implemented in 200 additional districts.</p>	<p>23 additional States/UTs have signed the contract with the selected State Project Management Unit (SPMU) Agency – In total,</p>

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						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.	of e-District in at least 200 additional districts.		<p>34 states/UTs have signed the contract with the selected SPMU Agencies.</p> <p>6 additional States/UTs have formed District e-Governance Society (DeGS) in all their districts – At overall level, 100% DeGS has been formed in 24 States / UTs and DeGS has been formed in 574 districts across the country.</p> <p>256 e-District Project Managers (eDPMs) have been selected across 16 states/UTs.</p> <p>14 additional States/UTs have selected System Integrators (SI) for State-wide rollout – With this, 18 States/UTs have selected the SI for State-wide rollout of the project.</p>

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									e-District Services have been launched in additional 196 non-pilot districts across 9 States - In all, eDistrict services have been launched in 298 non-pilot districts across 11 States.
						<p>World Bank supported “e-Bharat”: Following availment of a Development 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), Department of Electronics & Information Technology (DeitY)</p>	<p>DeitY proposes to use this support to fund various e-governance initiatives of GoI and States/UTs in the broad areas of policies, human resources, technology, project development and projects.</p> <p>Approval of additional 20 projects of GoI /States /UTs.</p>	<p>Approval of 20 projects of GoI/States/UTs would be accorded by March 2014.</p>	<p>23 projects amounting to Rs. 240.39 crore have been approved and funds amounting to Rs. 60 crore have been released.</p> <p>14 projects with a total outlay of Rs. 308.11 crores have been recommended for approval by the Working Group. These proposals are at various stages of approval within DeitY.</p> <p>A total of 44 projects with a total outlay of Rs. 706.38 crore have been considered under e-Bharat scheme for funding assistance.</p>

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						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 leading to more robust implementation of NeGP, with significant social benefits for the population and positive impact on the poor. DeitY has established a			<p>National Roll out of Projects: DeitY has identified some projects which may be considered as national initiatives as they are cross cutting in nature such as:</p> <ul style="list-style-type: none"> • Project for Election Commission of India • Integrated Dairy Management System of Tamil Nadu • e-Legislature project for Andhra Pradesh & Himachal Pradesh <p>Pilot for National Mission Mode Projects: DeitY has also identified projects which may be considered as pilot projects for national Mission Mode Projects in the respective domains, namely:</p> <ul style="list-style-type: none"> • e-Health Kerala • e-HMS & Supply Chain Management for Drug

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						<p>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 Rs. 98.75 crore have been sanctioned and 82 more project proposals are at various stages of consideration.</p>		<p>warehouse, Andhra Pradesh</p> <ul style="list-style-type: none"> e-Gov initiatives for Education Department, Himachal Pradesh <p>Rapid Replication Projects funded under World Bank: DeitY has approved 6 projects under rapid replication initiative, namely:</p> <ul style="list-style-type: none"> 2 projects of ePASS XLN eHospital eHRMS Mee Seva <p>Projects proposed for Productization: Some projects have been identified to be developed as products which will be made available on the e-Gov Appstore for implementation in other states. These projects are:</p>	

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									<ul style="list-style-type: none"> • Integrated Weavers Management System (IWMS), Tamil Nadu • Mobile-Based Services for Department of Tourism, Goa • Integrated Dairy Management System of Tamil Nadu • e-Legislature project for Andhra Pradesh & Himachal Pradesh
						<p>Capacity Building Scheme 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 Rs. 313 crore for all the States/UTs. So far, under CB scheme</p>	<ul style="list-style-type: none"> • 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. 	The Projected deliverables will be achieved by March 2014.	<p>Formation of State e-Governance Mission Teams – The CBMC facilitated the appointment of 261 professionals in 35 States & UTs. 43 personnel have joined SeMTs across all states/UTs. One orientation programme have been conducted and 50 SeMT & NeGD personnel have undergone the training.</p> <p>Leadership Meets - 2 leadership meets have been</p>

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						<p>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 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), CIOs Programme, Orientation workshops and other training modules have been rolled out to up skill Government officials at all levels.</p>	<ul style="list-style-type: none"> • 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 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. 		<p>conducted in which Ministers/MLAs and senior government functionaries participated.</p> <p>Specialized Training Programs – STeP (Specialized Training for e-Governance Programme) - 82 programs covering 24 states/ UTs and 1,831 participants have been conducted by NISG.</p> <p>Thematic Workshops - Four successful workshops have been conducted so far – capacity building & change management, technology management, RFP toolkit and detailed project report (DPR) preparation & evaluation.</p> <p>Chief Information Officers (CIO) program - 6 programmes have been conducted covering 138</p>

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						<p>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 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.</p>	<ul style="list-style-type: none"> • 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. 		<p>participants from central line ministries and states.</p> <p>Knowledge Management - A collaboration portal with an active community of more than 800 members is currently being managed at www.mynegp.com. It is an active forum for discussions, information sharing and announcements and is engaging the community of SeMTs, e-Governance practitioners (government officers) and NeGD employees.</p> <p>Next Phase of Capacity Building Scheme: The Empowered Committee for CB scheme during its 8th meeting held on 8th May 2013 recommended preparation of detailed project report (DPR) for CB scheme phase-II. DPR has been prepared and approval is under process for EFC.</p>

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						<p>Standards for e-Governance: 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:</p> <ul style="list-style-type: none"> • Development and enhancement of Standards, Guidelines, Policy in identified areas • Development of standards in the new areas like Digital Preservation • Publishing of 	<ul style="list-style-type: none"> • 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. 	<p>By March 2014, the following activities will be completed :</p> <ul style="list-style-type: none"> • Technology Standards in Interoperability Framework for eGovernance (IFEG) will be published • Keyboard layout Standard to be notified • Localization Guidelines to be approved • Standards formulation for Digital Preservation • Standards Compliance Framework and Enforcement mechanism • Training programmes / 	<ul style="list-style-type: none"> • Mechanism for formulation of MDDS in various domains was approved and notified. MDDS for education, urban development, agriculture, Panchayati Raj, health and drinking water & sanitation have been initiated. • Best practices and standards for digital preservation of e-records have been notified.

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						standards on the website		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 service access providers. This would facilitate standards based interoperability	This soft infrastructure which is based on standards will facilitate integration, interoperability & data sharing amongst	By March 2014, the following activities will be completed: <ul style="list-style-type: none"> • Integration with various e-Governance applications in order to bring more services onboard NSDG. • Strengthen the NSDG infrastructure with respect to security. • Undertake 	<ul style="list-style-type: none"> • Integration has been successfully completed in staging environment for IEC and e-BRC services of DGFT. • Two services of eBiz and seven services of J&K state have been registered on NSDG. • UID integration has been successfully completed in staging environment. • ISMS audit has been completed and ISO 27001 certificate received from STQC.

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						<p>and integration to existing and new e-governance applications. The details are:-</p> <ul style="list-style-type: none"> • A pilot implementation has been successfully developed and tested. The National Gateway is implemented by CDAC and is live since August 2008. • Operations & Maintenance for 5 years. • Integration with various e-Gov projects like eBiz, Trademarks. 		<p>technical enhancements to the NSDG product.</p>	<ul style="list-style-type: none"> • Application security has been successfully completed by STQC.
						<p>Mobile Governance: DeitY has launched a massive countrywide initiative on mobile</p>	<p>Scale up the existing infrastructure with other</p>	<p>By March 2014, the following deliverables will be completed: (i) No</p>	<ul style="list-style-type: none"> • The infrastructure for Mobile Seva has been enhanced with data centre (DC) in Shastri Park,

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						governance to provide 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	important solutions like mobile payments,etc. Enhance the Mobile 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	of transactions: 1 Crore per month (ii) No of additional Govt. Depts using MSDG: 100 (iii) No of live Mobile Applications on the Mobile App Store are 75.	<p>New Delhi, and disaster recovery (DR) in Pune.</p> <ul style="list-style-type: none"> • The Mobile Seva project with enhanced infrastructure and services was dedicated to the nation on 23rd December 2013. • A billing solution for Mobile Seva services has been successfully completed. • More than 700 new Government departments and agencies at central, state and local levels have been integrated with the Mobile Seva platform. The total number of Government departments and agencies integrated with the platform has crossed 975. • For Pull SMS services, short code 166 and long code 9223166166 have been operationalised.

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						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	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.		<ul style="list-style-type: none"> • The total number of Push SMS transactions has crossed 74 crores. • The total number of services available to citizens and businesses over Pull SMS has reached 291. • On the Mobile Seva AppStore, a total of over 290 live m-apps have been developed and hosted. These apps have been downloaded over 1,54,000 times. • A mobile app contest was conducted during March-June 2013 to involve the private developers to develop and submit mobile applications for public services which can be hosted on the Mobile Seva AppStore. Four applications were selected as winners and given awards during

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									<p>December 2013.</p> <ul style="list-style-type: none"> • Mobile Seva won the mBillionth Award South Asia 2013 in July 2013 under the m-governance category. • An independent mid-term impact assessment/ evaluation exercise was undertaken in June 2013 through the Narsee Monjee Institute of Management Studies (NMIMS) Mumbai. The assessment showed that the project has achieved its desired impacts in terms of substantial savings in time, efforts and costs for the departments in enabling their services for mobile based delivery. The project has also helped the departments in developing better citizen interface as they can

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						<p>Assessment</p> <p>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</p>	<p>Assessment for 2010-12 would be completed</p>		

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						<p>by the citizen and their effects on him/her as an individual.</p> <p>The e-Readiness 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.</p>			
						<p>Awareness & Communication:</p> <p>National Awareness Campaign for NeGP</p> <p>To create awareness among citizens about</p>	<ul style="list-style-type: none"> • Awareness at national level about NeGP • Promotion of NeGP Umbrella brand amongst states and MMPs. 	<p>By March 2014, the following will be achieved:</p> <ul style="list-style-type: none"> • NeGP Campaign for Common person Workshops/semi nars for Central 	<p>Awareness amongst Citizens-</p> <p>Phase II of the Rural Outreach campaign was planned for 10 states aiming to cover 1,500 CSCs. The phase II campaign</p>

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						<p>the initiative and its objectives – Output – Mass Media Campaign using TV, Radio & Print; Outreach in villages</p> <p>To build distinctive brand of NeGP to be utilized across Departmental communications – Output – Films, posters and advertisements that can be used by other departments</p> <p>To motivate other external stakeholders – Output – Workshops and seminars</p> <p>Workshops and Seminars at MMPs /State/Divisional level</p>	<ul style="list-style-type: none"> Increased awareness at State and village level about NeGP. 	<p>Line Ministries specific to Central MMPs & Workshops at State and Zonal levels across States/UTs Outreach programmes for rural populace in 10 States, and students in universities.</p> <ul style="list-style-type: none"> Mass media advertisement with special emphasis on TV and Radio 	<p>commenced in August 2013.</p> <p>Building NeGP as a distinct brand</p> <ul style="list-style-type: none"> 6 new advertisements on NeGP and CSC were produced; the first burst of new Television Commercials to be done in January-February 2014. 4 new films on NeGP and CSC were completed and shown at various outreach locations. Cinema advertisements released in and around outreach activity locations in regional languages. Radio campaign is ongoing through AIR and private FM channels to support outreach campaign. Shooting for additional 32 episodes of NeGP TV

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									<p>series in progress.</p> <ul style="list-style-type: none"> • Production of 13 part radio sponsored programme has commenced. <p>Motivating Stakeholders</p> <ul style="list-style-type: none"> • Five State/Central universities conducted workshops across five states. With this, a total of 37 workshops have been held so far by Central /State universities. • Institutional/financial support has been provided to six workshops and seminars and two exhibitions, organized by external agencies • Eight State consultation workshops were conducted in the current financial year in the following States- <p>Other Stakeholders</p>

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									Bhubaneshwa in Odisha, Panaji in Goa, Agartala in Tripura, Nagpur & Mumbai in Maharashtra, Itanagar in Arunachal Pradesh, Silvassa in Dadra Nagar & Haveli and Kavaratti Islands in Lakshadweep.
						<p>Localization Projects Management Framework(LPMF): 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.</p>	<p>Study of existing MMPs and identifying localization requirements / tools and bring out / best practices – Design, Deployment and Customization of Localization Projects Management Framework</p>	<p>The projected deliverables will be achieved by March 2014.</p>	<ul style="list-style-type: none"> • Audit of RFPs for application development issued by MMPs was conducted with regard to localization requirements and compliance of localization standards of various web applications envisaged under the MMP. • e-Governance awareness workshops are being conducted for MMP leaders for dissemination

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						<p>workflow for managing the Localization requirements of 7 MMPs</p> <p>Design and development of “Standard Interfaces” for plugging in various services such as Transliteration, MAT, Spellcheckers, Translation memories, etc into Language switch / LPMF</p> <p>Train e-Governance application developers to develop internationalized</p>		<p>of information about LPMF.</p> <ul style="list-style-type: none"> • Training programmes are being conducted for System Integrators and Consultants. 	

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							applications which could be localized for specific market segments in Indian languages.		
						<p>Vikaspedia (India Development Gateway): Vikaspedia (India Development Gateway) project is a unique initiative by DeitY for providing information and services in selected domains related to socio-economic development. For this, a multilingual portal – www.vikaspedia.gov.in / www.vikaspedia.in - has been developed as a versatile collective knowledge</p>	<p>Development in 5 more languages</p> <p>To make portal mobile compliant</p>	<p>March 2014</p> <p>March 2014</p>	<ul style="list-style-type: none"> • Availability of Vikaspedia has been made in five languages – Hindi, Assamese, Marathi, Telugu and English. • Information services related to six key livelihood sectors (Agriculture, Education, Health, Social welfare, Energy and e-Governance) have been made available on the portal. • The portal has been made mobile compliant, thereby enhancing the access and dissemination of information through mobile devices.

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						repository. It will serve as a collaborative content creation, sharing and utilization platform for a rainbow of stakeholders – NGOs, Government, community based organizations, knowledge networks, CSRs, etc. spread across the entire country.			<ul style="list-style-type: none"> The multi-lingual mobile Apps such as – KVK Khoj (Krishi Vigyan Kendra locator), CSC Finder (for providing information on Common Service Centres), SHELTOR (for locating nearby Government hostels for students), Ask-An-Expert (mobile based expert services delivery application) and MOTHER (Mobile based maternal health alerts for pregnant women) having relevant packaged information to maximize the benefits of ongoing schemes to the citizens have been developed and hosted on DeitY's Mobile Seva AppStore.
2.	National Informatics Centre (NIC)	Provide wide range of E-Governance infrastructure	-	800.00	-	Cyber Security Network and application security audit and hardening	<ul style="list-style-type: none"> Enhanced security of NICNET and 	March 2015	<ul style="list-style-type: none"> Security of NICNET has been enhanced in Ministries , Bhawans and States. Security Policies enhanced

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		and services in the Country at various levels right from Central Government, State Governments to district administrations in their initiatives towards providing good Governance to the people.				systems and Securing Data Centres; Enhancement of security at NIC State Centres;	services		<ul style="list-style-type: none"> ▪ Management of Anti-virus and Patch Management solution deployment for NICNET
					<p>Certifying Authority</p> <ul style="list-style-type: none"> • Enhancing the use of DSC in G2G domain 	<p>DSCs to be issued to Govt. and PSU employees to meet the requirement.</p> <p>Setting up of new</p>	March, 2015	Approx. 38005 DSCs have been issued.	

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						<ul style="list-style-type: none"> Online Directory Service for DSCs & CRLs 	RA offices in NIC State/District Units & User locations.	March, 2015	Online Directory Service for DSCs & CRLs have been started by setting up new RAs
						Design, Development, implementation of e-Governance application at various locations/sites in sectors such as: <ul style="list-style-type: none"> Govt. Procurement (e-Procurement) Health (e Hospital) Office Management (e-office) Judiciary (e-courts) Transport (Vahan, Sarathi) Immigration, Visa and Foreigners Registration & Tracking (IVFRT) Property Registration Land Records Data.Gov 	<ul style="list-style-type: none"> Faster services to citizen Ease of use for end-users Better management resulting in better e-Governance 	March, 2015	These applications have been implemented across the country

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						<ul style="list-style-type: none"> • Apps Store • e-Transactions, etc. 			
						<p>Videoconferencing infrastructure development</p> <ul style="list-style-type: none"> • Augmentation of VC facility in States & Districts. • Augmentation of MCU infrastructure at State and NIC-HQ • Expansion of Desktop VC services 	<p>Expansion of web based VC infrastructure in states & districts.</p> <p>Additional support infrastructure for Multipoint VC sessions.</p> <p>Providing Software based Videoconferencing solution at State level</p>	<p>March,2015</p> <p>March, 2015</p> <p>March, 2015</p>	<p>Orders have been placed.</p> <p>Under process</p> <p>Orders have been placed.</p>
						<p>Remote Sensing & GIS</p>	<p>Process involves</p>	<p>March, 2015</p>	<p>Services being updated in</p>

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						Multi_Layer GIS Platform & Infrastructure, Image as well as vector GIS services, priority sector applications & training	enhancement of existing framework in terms of infrastructure and services.		terms of Digital GIS Assests from 1:50 K to 1:10 K with Terrain Map Services using high resolution satellite data. NICMAP services as well as API based map layer Services extended to e-governance projects. High resolution Satellite data of Cartosat I and Resource sat 2 processing completed. ICT infrastructure enhanced.
						<p>Data Centre</p> <ul style="list-style-type: none"> National Cloud Services to be provisioned from National Data Centres. Establishment of National Data Centre at Bhubaneswar. 	<p>National Cloud Services to provision around 3000 Virtual Servers for use various eGovernance Applications.</p> <p>To provide robust and scalable Infrastructure at National Level for eGovernance</p>	March,2015	<p>Under National Cloud Services more than 2600 Virtual Servers have been allocated for use of Various e-Governance Applications.</p> <p>Revised SFC for establishment of NDC, Bhubneswar is under process.</p>

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						<ul style="list-style-type: none"> ICT Up gradation of National & Mini-Data Centres of NIC. 	services.		ICT Infrastructure such as Storage, Computer and System software was upgraded/ augmented in some of the NDCs and Mini-Data Centres.
						<p>NICNET International Gateway project</p> <p>Gateway Bandwidth will be upgraded.</p>	Enhanced and efficient availability of Internet Services with enough redundancy to run critical services.	March, 2015	<p>Secondary 100 Mbps links from RAILTEL/ PGCIL are installed in 125 Districts apart from existing Primary link on BSNL</p> <p>About 360 Districts have been provided with channelized STM1 connectivity to further provide connectivity to</p>
3.	National Knowledge Network (NKN)	The objective of the National Knowledge Network is to bring together all the stakeholders in Science, Technology, Higher Education,	-	300 Cr	-	The NKN is to inter-connect all knowledge institutions across the country through high speed data communication network to encourage sharing of resources and collaborative research. These would cover about 1500 Institutions	NKN would facilitate creation, acquisition and sharing of Knowledge resources among the large participating Institutions; collaborative research;	End of 2014-15	<ul style="list-style-type: none"> During the Current FY year, 136 links to Institutions connected which includes 26 links from NMEICT to NKN. A total of 1362 links to Institutions have been commissioned and made operational. This includes 360 links to institutions under NMEICT, which have been

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		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.				<p>comprising of all Universities, Institutions of Higher Learning, and Research.</p> <p>FY 2014-15 A budget provision of Rs. 300 Cr. was made for NKN which was released on time.</p> <p>Target for 2014-15</p> <ul style="list-style-type: none"> • 180 institutions/Disctrict would be connected to NKN • Initiation of National Test labs at Shastri Park, Delhi & Pune • Completion of work for 7 NKN PoPs. Work to be initiated for remaining 10 NKN PoPs. • Installation of NTP (National Time Protocol) server • Extending the Data 	<p>countrywide classrooms (CWCR) etc. and help the country to evolve as Knowledge Society.</p>		<p>migrated to NKN.</p> <ul style="list-style-type: none"> • During the current FY, NKN connectivity have been extended to 46 NIC District Centres. A total of 326 NIC district centers have been connected. • 89 Nos of Core Links have been commissioned and operational. • 3rd NKN Annual Workshop was held at IIT Guwahati during 15-17 December, 2014. It was attended by delegates from NKN connected Institutes all over the country & foreign delegates from TEIN4, Internet2 and DANTE. • NKN connectivity has been extended to SWAN in 28 States/UTs. These are: Andhra Pradesh, Assam, Arunachal Pradesh, Bihar, Chhattisgarh, Chandigarh (U.T), Delhi, Goa, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Nagaland Odisha, Puducherry (U.T), Punjab,

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						<p>Center storage and Launch of other NKN common services</p> <ul style="list-style-type: none"> National Workshops and Regional Technical Workshops Setting up of NKN international PoPs. 			<p>Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand & West Bengal.</p> <ul style="list-style-type: none"> NKN connectivity has been extended to SDC in 25 States/UTs are: Andhra Pradesh, Assam, Chhattisgarh, Chandigarh (U.T), Goa, Gujarat, Haryana, Jharkhand, Jammu & Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland Odisha, Puducherry (U.T), Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh & West Bengal.
4.	Digital India Program and Manpower Development (including Skill Dev. in IT and IT for Masses)	E-learning	-	660.00 (500.00 + 160.00)	-	<p><u>Fresh new Proposals (To be placed before Working Group)</u></p> <p>Rollout of OLABs in CBSE Schools across the country</p>	<ul style="list-style-type: none"> To create the infrastructural and support framework for making OLABs (online labs for schools) accessible and usable by students and 	To initiate new project during 2014-15 (if approved)	<p>The project could not be initiated due to following major reasons:</p> <p>The proposal was earlier submitted by ERNET India jointly with C-DAC, Mumbai and Amrita University, Kollam. IFD has raised certain observations like impact assessment of Phase-I</p>

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							<p>teachers across India. This includes level 1 and 2 support, toll free numbers, etc.</p> <ul style="list-style-type: none"> To train approximately 30000 teachers across India in effective use of Olabs resources to enhance the teaching learning experience. 		<p>and cost projections to be on higher side.</p> <p>Further, the data centre of ERNET India at Delhi was burnt in fire. They had still not started operating from new data centre. Hence, hosting of OLabs content was explored through National Knowledge Network (NKN) and it was agreed. The role ERNET was to host the content and since it was being provided by NKN, no role was left for ERNET in the project. As there has been change in the prime project partner, C-DAC, Mumbai and Amrita University, Kollam were requested to submit the revised proposal to DeitY and same has been considered in Working Group (WG) meeting held on May 19, 2014 in which WG recommended the proposal in</p>

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						Design and development of generic opensource P2P framework for potential use in p2p academic and e-learning management systems	<ul style="list-style-type: none"> To design and develop P2P framework. To generate the specification document, and at least one implementation of framework in JAVA, 	To initiate new project during 2014-15 (if approved)	<p>principle, subject to certain revisions like submission of new module for teachers' training as for them, logistic arrangements was not clear along with revised budget details. Accordingly, we have received revised proposal in the light of aforementioned suggestions/clarifications and the same was submitted to IFD for their concurrence in which IFD has raised certain queries, which were resolved. Afterwards, the proposal was again submitted to IFD in which they have mentioned that there is a drastic cut in the budget, hence, it cannot be concurred at this stage.</p> <p>The project could not be initiated due to following major reasons: The project proposal was discussed in the meeting of Working Group held on Nov 26, 2013. The Working Group recommended that a Sub-committee is to be formed to</p>

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							<p>which can be used by application developers for making P2P applications.</p> <ul style="list-style-type: none"> To implement Brihaspati-4 p2p LMS system using this framework 		<p>look into legality of p2p application in India and its deployment in NKN and give its recommendation for consideration of above project in next Working Group meeting of E-Learning.</p> <p>The Sub-Committee gave the following recommendations:</p> <ul style="list-style-type: none"> The p2p applications are legal as there is no act/law which prohibits its use. In the p2p framework to be developed, proper log of user activity should be maintained and it should be preserved. National Knowledge Network does not put any policy to block p2p applications and hence it can be deployed in the NKN. <p>Based on the above recommendation, the proposal was again discussed in the next Working Group meeting held</p>

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									on May 19, 2014. The Committee deliberated in detail on the proposal and sought clarification on certain issues like to find out the measurement mechanism or usage of Brihspati-III, which is being deployed on NKN and also to indicate that how many institutions are using Brihspati-III and what will be the projected usage/future roadmap. It was also suggested by Working Group that for wider usage of Brihspati, IIT Kanpur should conduct different awareness programmes. The details may be submitted to DeitY and the proposal may be reconsidered in the next Working Group meeting.
						<u>New Projects (Recommended by Working Group)</u> ICT based Framework to enhance the teaching and learning	Development of framework and interface for the	The project is likely to be approved in 2014-15 and will continue in 2015-16	The project has been recently initiated.

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						experience in large Classroom	following: - <ul style="list-style-type: none"> ▪ to deliver the lecture on the diverse portable computing devices carried by the students ▪ for interaction between the teacher and the students both in the class and outside the class for examination management (conduct and evaluate short exams/ quizzes/ home assignments) 		
						<u>On going projects</u> Design and Development of Context Aware Mobile assisted Augmented Reality Framework for Learning Environment	<ul style="list-style-type: none"> ▪ Framework to create augmented reality based e-learning applications for students including design 	May, 2015	The activities related to Study phase, user identification, requirement specifications, project plan and work breakdown structure, procurement of capital, high level design of all components,

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						<p>and develop following 3 pilot applications based on the framework: -</p> <p>a. Augmented Reality based Board.</p> <p>b. Augmented Reality based book.</p> <p>c. Augmented Reality based game.</p> <p>▪ To conduct knowledge dissemination program through trainings and workshops.</p>			<p>low level design and test plan document of Augmented Reality for Board, Book and Game have been completed but their pilot application/ implementation are in progress. Testing of authoring tools is also completed. Application manager module and Augmented Reality Framework are also in progress.</p>
					<p>Online Labs (OLabs) for school experiments - Phase 2</p>	<p>Enhancing OLabs phase 1 experiments for deployment on Android. To be</p>	<p>March 2015</p>	<p>Under Online labs for schools project, total of 88 experiments/activities for classes IX, X, XI and XII have been developed. These include</p>	

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						<p>extended for other subject of class 9 and 10. Physics, Chemistry, Biology, Maths for class 11 and 12 will also be covered. Enhancement of the framework for multi-lingual support. M-Learning enhancements to framework to support OLabs on Android tablets.</p> <p>Online Assessment and Evaluation System (OAES) for National Level Certification Examinations</p>	<p>Initiation and development of tool for OAES together with pilot deployment.</p> <p>June, 2015</p>	<p>21 Physics labs, 27 Chemistry labs, 15 Biology labs, 18 Mathematics activities and 7 English activities. About 37 more are under development. Teacher workshops were conducted in June, 2014 and September, 2014 to gather feedback on the labs. Prototype for translation of Labs in Marathi, Hindi, etc is completed. Making all labs Android compatible to suitably run on Android based tablets like Aakash is in progress.</p> <p>The activities that have been completed include requirements analysis of item bank authoring, instrument generation, examination sub-system. Beside these, system architecture has also been completed. Out of four modules, which have been identified viz. Item Authoring module, Assessment Instrument Generation module, Exam module and Evaluation</p>	

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						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.	March 2015	<p>module, design of Authoring module for selection type is completed and other modules are in progress. Screen design along with database design has also been completed. Integration with backend is in progress.</p> <p>Development of web based e-learning framework is completed and the domain “medsim.in” is up and running. The user interface of Medsim web portal is designed to be responsive in nature to fit various screen sizes. Medsim system study was conducted to select virtual cases to be implemented. The development of virtual case module is progressing and the prototype is also being shown to the doctors and medical experts for feedback. The project team also had discussions with Principals of Government Medical College, Thiruvananthapuram and Kerala</p>

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						Development of Personalized 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	February 2016	State Institute of Health and Family Welfare, Thiruvananthapuram for assistance in developing virtual cases and for conducting field trials. With reference to the activities of requirements analysis of the proposed system, major part related to design and preparing the layout of the system, procurement of materials and installation course content development and coding part have been completed. Some complex logic systems have already been implanted and more are being tried to implement so as to enhance the performance of the project. The homepage of the website has links for registration, sign up, and sign in link for students and a separate section for the various administrators. The student section of the project has been built. The system as described above is working

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						<p>Setting up ICT E-Learning Centres in 204 schools in Srikakulam district of Andhra Pradesh.</p> <p>Deployment and Management of Brihaspati-3 services over NKN for Indian Academia</p>	<p>To set up e-Learning ICT centres in 204 high schools in rural and tribal area of district Srikakulam to integrate ICT for learning and teaching to improve learning outcomes of rural and tribal children</p> <p>To make installations on the servers deployed in NKN network and to maintain and upgrade them in order to provide services of Brihaspati-3 and its upgraded versions to the academic</p>	<p>July 2016</p> <p>February 2017</p>	<p>well.</p> <p>ERNET India has signed MoU with Education Department of AP Government. Hardware items have been delivered in 150 schools and the same are in warehouse of Vishakapatnam for 54 schools. The installation and integration of ICT equipments is in process. Out of 204 schools, 13 schools were reported as non-feasible due to various reasons like buildings under construction etc.</p> <p>A MoU was signed with NKN in August, 2014 in order to meet the above objectives. The server access at NKN data center has been received and with this, now, the installation and transfer of current user data for Brihaspati -3 has been completed. The services are up and running.</p>

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						Enhancing the outreach of Electronics System Design and training through e-Learning	<p>institutes who are subscribing to NKN connectivity. All other services developed in open source which are being integrated with Brihaspati-3 will also be deployed and managed</p> <p>To develop low cost educational kits and provide the training in the following areas: -</p> <ul style="list-style-type: none"> • Embedded System Design (ESD) • Designing using FPGA. • Digital Signal Processing 	April 2016	Under Digital Signal Processing and Designing using Field Programmable Gate Array (FPGA), for designing of lab experiments for undergraduate engineering students, prescribed syllabus of the Indian Universities both in Government and Private sector were studied. So far, five common topics were filtered out in Digital Signal Processing. In addition, with respect to designing using FPGA, list of experiments prepared with two common concepts - basic and advanced

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									level and are performed on existing boards. Beside these, comparisons of some existing FPGA boards are also provided. E-Learning portal has also been designed with the objective to provide a complete support to the students for online learning. The students need to register in order to access the courses and experiments.
						Fresh project proposals for E-Learning in development of tools & technologies will be invited from various academic institutions, R&D labs etc. These projects will be placed before Working Group for deliberations/ recommendations before approval by the competent authority.			
		Special Manpower Development Programme for Chips to				Target for 5 years: Development of 10 working prototypes of	Broaden the VLSI Design base in the country by covering more institutions,	December 2019	Administrative approval issued for initiation of the programme for implementation at 60 institutions across the country

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		System Design				Systems / Sub-system / SoCs 70 ASICs development 30 FPGA based board level circuits design More than 50,000 specialised manpower in VLSI / SoC / System / Sub-System Designing 25-30 IP core development 15 Instruction Enhancement Program Prototyping and Siliconization under India Chip Program/ Chip Centre Setup /upgrade VLSI Design Laboratories at 60 institutions	generating special manpower at B.Tech, M.Tech and PhD level and bring in a culture of System-on-Chip / System Designing in the country		including all IITs and NITs. Implementation of the project would be subject to availability of funds.
	E-Infrastructure	National Policy on Universal Electronic Accessibility				i. Seminars on the awareness of electronic accessibility & universal design will be organized.	i. The differently abled persons will come to know about accessibility of electronic content and various tools and	i. Seminars will be conducted from July 2014 onward	As per decisions taken by High Level Advisory Committee (HLAC) on Accessibility, creating awareness by conducting workshops on seminars, trainings and establishment of

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						<p>ii. Training and demonstration centres on Electronics & ICT for special educators and physically and mentally challenged would be setup</p> <p>iii. R & D proposals on assistive technology will be supported</p> <p>iv. Guidelines on procurement of Electronics & ICT for accessibility and assistive need will be prepared.</p>	<p>technology available in the market.</p> <p>ii. The special educators and differently abled persons will be trained on using ICT technology</p> <p>iii. New R & D project proposals will result in developing assistive technology</p> <p>iv. The guidelines will ease procurement of ICT products for differently abled in government departments</p>	<p>ii. Training & demonstration centres would be set-up by October '14</p> <p>iii. New R & D proposals will be approved by Sept' 14</p> <p>iv. Guidelines will be prepared by August 2014</p>	<p>Demonstration Centres for differently abled persons doesn't come under the purview of DeitY and the same will be dealt by Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment. However the following major tasks have been accomplished with reference to National Policy:</p> <ul style="list-style-type: none"> - HLAC has recommended that 100 most popular/visited inaccessible Government websites will be converted into accessible sites as per Web Content Accessibility Guidelines (WCAG 2.0). - Action has also been initiated to make all the Government websites accessible. - To overcome the problems faced by differently-abled persons, Government is also in process of issuing some notifications relating to accessibility of websites

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									e.g. logical CAPTCHA like asking simple questions or One Time Password (OTP), accessible notifications in EPUB or OCR based PDF. - In addition, a notification shall also be issued that all Government procurements should be GIGW compliance.
	Establishment of 250 ICT centres in rural Rajasthan	To set up ICT centres in Government schools in rural areas in the District of Ajmer and Jaipur.				ERNET had established ICT centers in 250 schools in rural areas of Ajmer & Jaipur districts of Rajasthan.	To setup ICT Centers in schools in rural areas, to empower student with ICT Skills and to provide connectivity to access information pertinent to their lives.	August, 2014	The project is complete and has been handed over to Govt. of Rajasthan.
	Prototyping a Virtual Scalable E-Infrastructure based Educational Services for Schools	To provide scalable educational services for schools in the Indian context, research, development and deployment of				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.	June, 2014	The project has successfully completed on June 2014.

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		related system and application services, evolving a generic approach to benefit higher education and enabling test bed for research and collaboration with academic and research institutions.							
	Establishment of Knowledge Web Repository at State Institute of Encyclopaedic Publications (SIEP), Thiruvananthapuram.					SIEP had developed framework for repository and six volumes of Sarva was digitized. The portal for the repository was developed and tested.	Development of a metadata management system using free and open source software tools like DSpace, setting up of a content registry which can provide persistent identifiers for Malayalam content, the framework to be a distributed one		The delivery of servers is awaited for hosting the content at State Data Centre.

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							where other content providers like State institute for archives, universities can join in and make the system easier to manage.		
	Establishment of the Bio-IT collaborative facility at Institute of Bio-Informatics Applied Bio-technology (IBAB), Bangalore.	Setting up Bio-IT Research and Training facility and creation of professional manpower in Bio-IT field, R&D in Bio-IT area.				IBAB had set up world class infrastructure for Bio IT research and training. The infrastructure includes next generation sequencers, DNA microarray, Q-PCR and high performance computing cluster with associated storage.	Skill development in next-generation sequencing data generation, analysis and its interpretation. Research and Development of Bio-IT.		Additional critical infrastructure to complete the Research and Training Programs running at the Centre are being procured. In addition, results from several important studies are being compiled for peer-reviewed publications.
	Setting up Intranet of NIELIT and Smart Virtual Class Rooms at NIELIT centres for quality training to students in remote areas.	To set up a MPLS network of NIELIT to carry out multicasting, videoconferencing, video streaming and virtual classroom				Video-Conferencing set-up completed in Phase 1 of the project at 7 NIELIT centres plus Head Quarter. At NIELIT headquarter the Tele-presence solution is installed	To connect all the NIELIT Centers in the country with the focus to improve the quality of education to students from remote/rural part of the country, passing out of the centers of NIELIT		Procurement of servers and storage for hosting the e-center is awaited.

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		sessions at all NIELIT centres.					and its accredited centers.		
		Development of North - Eastern Region by enhancing the Training/ Education capacity in the IECT Area				<p>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.</p> <p>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.</p> <p>Upgradation of two existing Extension centres located at</p>	<p>The project would result in enhanced capacity in terms of training/education in IECT sector for the youth of North-Eastern Region.</p> <p>Availability of trained professionals in the IECT area</p>	May 2017	<p>Fourteen (14) out of proposed Eighteen(18) Centres/Extension Centres are operational as on date. The new six Extension Centres are imparting training from rented built-up space at Silchar, Jorhat and Kokrajhar in Assam; Senapati & Churachandpur in Manipur; and Lunglei in Mizoram. A total of 7757 students were trained so far under the project.</p> <p>Possession of land for construction of permanent campuses has been obtained at 9 Locations in Pasighat, Guwahati, Kokrajhar, Jorhat, Tejpur, Imphal, Aizawl, Lunglei & Chuchuyimlang. Three Central PSUs have been appointed as Project Management Consultants (PMCs) for construction of permanent NIELIT Centres & Extension Centres. A revised</p>

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						<p>Chuchuyimlang in Nagaland and Tezpur in Assam.</p> <p>Increase in training capacity from 3,080 per year to 14,400 per year from the 5th year onwards.</p>			RCE proposal is under process for approval.
		Scheme to enhance the number of PhDs in the Electronic System Design and Manufacturing (ESDM) and IT/IT Enabled Services (ITES) sectors [‘The PhD Scheme’]				<p>1500 PhDs for ESDM (500 Full-time +1000 Part-Time)</p> <p>1500 PhDs for IT/ITeS (500 Full-time +1000 Part-Time)</p> <p>200 Young Faculty Research Fellowship to increase the attractiveness of faculty positions & future enrolment of PhDs</p>	To generate 1500 PhDs for each of ESDM and IT/ITES sectors (Total: 3000) over a period of 5 years, in order to promote innovation and development of new products in IT/ITES and ESDM sectors	March 2023	<p>(i) the PhD Scheme now renamed as the “Visvesvaraya PhD Scheme for Electronics and IT”</p> <p>(ii) The duration of scheme would be for five years for the purposes of selecting PhD candidates for support under the scheme. However, the funding would be continued till 9th year for the commitments already made during the scheme period.</p> <p>(iii) Government has approved for implementation of the PhD Scheme at a total estimated cost of Rs. 401 crore (Rupees Four Hundred one crore only) over a period of nine years in</p>

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									February 2014. (iv) The Scheme was launched since academic-year 2014-15, and the Academic Committee (for the PhD Scheme) has approved support to 291 full time and 38 part time PhDs at different Institutions as on January 2015.
		Scheme for Financial Assistance to select six (06) States/UTs for Skill Development in Electronics System Design and Manufacturing (ESDM) Sector				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	October 2017	Proposals were invited from all the States/UTs. Based on the proposals received, an Empowered Committee selected the states of Andhra Pradesh (including Telangana; Target divided equally), Jammu & Kashmir, Karnataka, Kerala (for Level 3, 4, 5 courses only), Punjab, Uttarakhand (for Level 1, 2 courses only) and Uttar Pradesh . An Expert Committee constituted by the Government to recommend the basket of courses which could be covered under the said scheme had recommended 24 courses

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									so far for rollout of the scheme.
		IT Mass Literacy Scheme				One e-literate person in 10 lakh households	To make one person e-literate in each household	September 2015	<ul style="list-style-type: none"> • State Implementing Agencies (SIAs) have been identified in 27 States, MOUs signed with 15 States. • Districts and Blocks have been identified in 27 States • Workshops conducted in 25 States • Household Survey has started in 25 States and around 9.5 lakh households surveyed so far. Around 9 lakh households identified for coverage under the Scheme • Training started in five States: Maharashtra, Jharkhand, Chhattisgarh, Himachal Pradesh and Tamil Nadu. So far, more than 10,000 candidates have been registered and more than 2,000 candidates have completed the training. • Examination conducted by NIELIT for 869 Industry trained candidates.

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		Information Security Education & Awareness (ISEA) Project – Phase II				Target for five years: 3.5 lakh students(formal, non-formal), faculty 25,000 Govt. officials Awareness to cover 50% Internet users	Capacity building in the area of Information security to address the human resource requirement in the country Training of Government personnel and professionals from banking and financial sectors. Creation of mass information security awareness	March 2019	The National Apex Committee Chaired by Secretary, DeitY has recommended the list of 39 Institutes and Centres of CDAC/NIELIT to function as ISRDC(3)/ RC(6)/PI(30) for conducting formal and non-formal courses. Govt. Official training and Awareness activities were launched. So far around 4,000 persons have been covered under training/ awareness.
		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 2014-15	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).	April 2017	<ul style="list-style-type: none"> • 14 Skill Development courses organised in ITIs / Polytechnics covering 838 students •442 students trained in Short term programs •6 Months PG Diploma in Electronic Product Design (DEPD) - 82 students are undergoing/completed the course •18 faculty updation programs organised in the subject areas

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							Upgrade the competence of working professional in Indian Industries and knowledge/skills of faculty of technical institutions.		PCB Design and Production Technology, VLSI, Embedded systems, Thermal Analysis on Enclosure and PCB, Energy Storage, Electronic System Prototyping, etc. covering 215 faculty members. <ul style="list-style-type: none"> •Draft syllabus for 1 year PG Diploma program has been finalised •M.Tech: NIELIT Aurangabad - 50 students admitted so far (25 this year, 25 students admitted last academic year). NIELIT Chennai & CDAC Hyderabad are working out collaborative M.Tech/M.S with Central University of Tamil Nadu, IITD&M, Kancheepuram, Osmania University & Kakatiya University. •B.Tech : NIELIT Aurangabad has launched a B.Tech course in Electronics System Engineering with 114 students so far. •A corporate training program was organised for DRDO scientist on VLSI design –

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I	II	III	IV	V	VI	VII	VIII	IX	X
									Basic Verilog with ASIC/SOC
		Skill Development in Electronics Hardware (NCPUL)				To conduct one-year <i>Diploma in Energy Efficient Electronic Product (DEEEP)</i> at 50 select Computer Applications, Business Accounting and Multilingual DTP (CABA-MDTP) Centres of NCPUL for training 10,000 candidates over a period of 3 years	Generation of skilled manpower to assemble LED based lighting products and in Repair and Maintenance of Electronics Home Appliances To encourage the usage of LED lighting solution especially in rural markets Promote affordable Electronics Design & Technology targeted towards rural / underdeveloped areas Self employment/ entrepreneurship in Electronics hardware	September 2016	The course name was changed to Diploma in Repair of Electronic Appliances and Maintenance (DREAM) with four Modules to be covered in two semesters. The first batch was started in Feb 2014 with a total of 1932 students. The course would be completing in April 2014. The first semester examination (2 modules) was conducted in the month of Dec 2014. For the second batch 1573 students were enrolled by 31.12.2014.
		Setting up of NIELIT Centre at				NIELIT Centre at Agartala (Tripura)	Create skilled manpower in the area of IECT.	March 2014 (To be extended)	Built up area of 7000 sq. ft. has been provided free of cost since December 2008 on 2nd

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			Non-Plan	Plan Budget	Comp IEBR				
I	II	III	IV	V	VI	VII	VIII	IX	X
		Agartala (Tripura)							<p>floor of Directorate of IT and SEPT building by the State Govt of Tripura.</p> <p>The courses viz. BCA, DOEACC 'O' level & 'A' level in Hardware and IT , BCC, CCC, Internet & Web Programming , PC Hardware & Networking , DTP & Office Automation, ITES – Call Centre training and other Short term Courses: DTP & office Automation, Information Security & Cyber Law, PC Hardware & Networking (4 Months duration) and other short term courses are presently being offered from the temporary premises.</p> <p>Total 5511 candidates have been trained so far in various long term and short terms courses out of which 3777 belong to SC/ST communities.</p> <p>NIELIT has taken possession of 15 acres of land at Radha Kishore Nagar in Agartala free-of-cost from State Govt. of</p>

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			Non-Plan	Plan Budget	Comp IEBR				
I	II	III	IV	V	VI	VII	VIII	IX	X
									<p>Tripura in February 2009.</p> <p>Construction work has been started by the NBCC w.e.f. 22.03.2013. Almost 65 % construction activities have been completed by the NBCC.</p>
		Setting up of NIELIT Centre at Ajmer (Rajasthan)				<p>To launch additional training courses from the temporary built up space at Kekri.</p> <p>To complete construction of the NIELIT Campus.</p>	Create skilled manpower in the area of IECT.	November 2014 (To be extended)	<p>Training activities have started from rented premise at Kekri. So far 247 students have been trained/undergoing training.</p> <p>The State Government has allotted about 42 acres of land for the project at village Kohda, Tahsil Kekri, Ajmer District. Possession of the land has already been taken on 26.11.2010 by the NIELIT. HSCL as PMC have taken up construction of NIELIT campus at Kekri, Rajasthan and 80% approx of construction works have been completed.</p>
		Setting up of NIELIT Patna				Construction of permanent campus of	Create skilled manpower in the	October 2017	The RCE proposal of the project was approved in Dec.

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			Non-Plan	Plan Budget	Comp IEBR				
I	II	III	IV	V	VI	VII	VIII	IX	X
		(Bihar)				<p>NIELIT Centre at Patna.</p> <p>To train 2710 candidates in various non-formal and Short-term courses in FY 2014-15.</p>	<p>area of IECT.</p> <p>Train about 40,000 candidates through direct or indirect mode in five years.</p>		<p>2014 with revised budget outlay to Rs. 61.05 Crore (GIA Rs. 50.88 crore).</p> <p>The construction work has been awarded to NBCC (CPSU) and the boundary wall of the major portion of land is complete. NBCC is in the process of inviting tenders for the construction of the building works.</p> <p>For setting up temporary training facility, Govt. of Bihar has provided approx. 8000 sq.ft of built-up space at 11th floor of Biscoman tower in Patna where already the existing Centre of Patna is running its activities from a built-up space at 13th Floor in the same building. The renovation work is almost complete and training activities are likely start. Patna Centre has training approximately 5622 students in various long term and short term courses till Dec. 2014.</p>
		Construction of Permanent				Permanent Campus of NIELIT Chandigarh at	To provide wide spectrum of	January 2019	The construction work has been awarded to NBCC

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I	II	III	IV	V	VI	VII	VIII	IX	X
		Campus of NIELIT Chandigarh at Ropar, Punjab				Ropar, Punjab To train 390 candidates in various non-formal and Short-term courses in FY 2014-15.	services to encourage entrepreneurs in Electronic Hardware Sector by way of developing prototype Electronic Products through formal courses in Electronic Product Design starting from B.Tech. level to Ph.D. level.		(CPSU). The Change of Land Use (CLU) on the allotted land has been obtained recently. NBCC has initiated tendering process for the construction of the building works.
		Setting up of NIELIT Centre at Srikakulam, Andhra Pradesh				Construction of NIELIT Centre at Srikakulam	To create skilled manpower in the area of Information Technology and related disciplines for making available industry ready professionals as well as to provide infrastructure to promote e-literacy.	March 2018	Land obtained in Govt. Polytechnic in Srikakulam. The construction work has been awarded to NBCC (CPSU). NBCC has initiated tendering process for the construction of the building works..
		Setting up of a Sub-Centre of NIELIT				To set up a Sub-Centre of NIELIT at Leh	To improve employment opportunities and	August 2016	Approximately 3000 sq.ft built-up space was provided by LAHDC (Ladakh Autonomous

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I	II	III	IV	V	VI	VII	VIII	IX	X
		Srinagar in the Ladakh Region of Leh				To train 50 candidates in a year through DOEACC 'O' level software course and 600 candidates in a year through short-term training programs	facilitate availability of quality manpower, which in turn will lead to growth of IT industry in the region		Hill Development Council) on the rental basis. 1009 students have been trained in various short term courses and 262 students in various long term courses till Dec. 2014.
		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 (To be extended)	Building construction in progress.
		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 mass based HR programmes for graduates	Students would be benefited from the trained faculty members	March 2014 (To be extended)	743 teachers have gone through ICT Academy training programme (3 day Faculty Development Programme) 394 students have undergone Placement assistance programme (3 day programme) 4994 students have gone through ICT Academy Orientation programme (1 day

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I	II	III	IV	V	VI	VII	VIII	IX	X
									programme)
		Scheduled Caste Sub-Plan/ Tribal Sub-Plan				Free training to SC/ST students	Empowerment of SC/ST students	On yearly basis	An amount of Rs. 2.81 crore released to NIELIT towards fee reimbursement claims.
	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	A scheme to set up 07 (seven) Electronics & ICT Academies 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 was approved on 14.11.2014. The scheme was forwarded to the IITs, IIITs and NITs for preparing proposals to be forwarded through the respective State/UT.
		IT for Masses Programme: Empowerment of Women and				To conceive and formulate projects for empowerment of Women and development of SC / ST	Capacity building of Women, SC, ST through ICT – training / capacity building projects	12 new projects by March, 2015	New Projects Initiated - 13 • ICT based integrated development program for women empowerment in

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I	II	III	IV	V	VI	VII	VIII	IX	X
		Development of SC / ST using ICT					implemented across across different States / UTs		Lallapura craft cluster–Varanasi (UP) <ul style="list-style-type: none"> • Capacity building in IT skills of Scheduled Tribes (ST) candidates - Andaman & Nicobar • Capacity building in IT skills of Scheduled Tribes (ST) candidates - Chhattisgarh • IT training for Scheduled Caste (SC) candidates - Punjab • Capacity building for empowerment of SC candidates on ICT at Cooch Behar district of West Bengal - West Bengal • ICT training to SC / ST / Women – Jammu & Kashmir • IT skills & e-Inclusion through low cost access devices based awareness program for Scheduled Tribes - Kerala • Project for the benefit of Girls / Women – Haryana • ICT training in Advance Animation / 3D Animation / Graphic & Web Designing to

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I	II	III	IV	V	VI	VII	VIII	IX	X
									SC / Women candidates – Mumbai (Maharashtra) • IT Mass Literacy Programme for Women - Kerala • IT Mass Literacy Programme for SC - Kerala • IT Mass Literacy Programme for ST - Kerala • IT oriented Handloom Sector Development Program for creative design, development & deployment by Artisans / Weavers of Jharkhand & Odisha State - Jharkhand & Odisha
	Internet Proliferation & Governance	Setting up of Centre of Excellence (CoE) for DNS Security by C-DAC Bengaluru in collaboration with ICANN				<ul style="list-style-type: none"> To setup a well-equipped DNS Security Lab for collaborative research and training in order to augment the research being carried in select areas To create a DNS test bed (Virtual Private Network) for carrying out simulations and 	It will explore knowledge on DNS security and DNS technology, Total duration of the project is three years.	March 2015	The terms and conditions on MoA is under reconsideration.

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			Non-Plan	Plan Budget	Comp IEBR				
I	II	III	IV	V	VI	VII	VIII	IX	X
						evaluation of tools • To offer services related to DNS Technology • To increase awareness of DNS and other critical resources of the Internet Infrastructure through training • To proactively contribute to the global standardization efforts related to DNS			
		India IGF				To garner a national consensual view on issues of Internet and its governance, an India IGF is proposed to be established as a multi-stakeholder policy dialogue forum for Internet related issues for three years.	Evolve new principles and fostering development of Internet.	March 2015	MAG for IIGF is again reconstituted for Second Year.

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I	II	III	IV	V	VI	VII	VIII	IX	X
		Internationalized Domain Name (IDN)				Testing and deployment of IDN tools, maintenance and Upgradation of policies and assistance for roll out of Domain names in Indian languages: Deployment and Integration of the 7 languages approved by ICANN: ICANN has delegated 7 ccTLDs (Hindi-Devanagari, Bengali-Bengali, Gujarati-Gujarati, Punjabi-Gurumukhi, Tamil-Tamil, Telugu-Telugu and Urdu - Perso-Arabic). Out of that .भारत is integrated and tested by NIXI. Registration Tools for registrants, Registrars and Registry for Devanagari Script is under test and for other scripts the work is underway.	Roll out of Domain names in Indian Languages		.भारत ccTLD in Devanagari script was formally launched on 27 August, 2014. Devanagari Script also supports other Indian languages such as Boro, Dogri, Konkani, Maithili, Marathi, Nepali and Sindhi. Soft Launch of the IDNs in Gujarati, Bengali and Manipuri were done on December 25, 2014.

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I	II	III	IV	V	VI	VII	VIII	IX	X
		Evolving greater participation in Internet Engineering Task Force (IETF) Working groups in different selected area:				The broad deliverables include generating IPR leading to a standards contribution to identified Working Group of IETF and defending the said contributions /drafts.	Create an ecosystem in India for Increased IETF Participation.		Academic Institutions have been requested to engage in IETF WGs for which DeitY may support financially if recommend by Working Group.
		Engagement with Internet Society (ISOC)				To create greater awareness and participation including academia, Industries, Governments, students and youths for encouraging them to participate in different chapter of ISOC related to standards, public policy, and education	Strengthen India ISOC chapters and Engagement with ISOC chapters amongst students and young professionals.		ISOC Chapters are asked to carry out workshops/ awareness programs. All state and UTs are also requested to provide platform for ISOC Chapters to create awareness among academia, Industries, Governments, students and youths
		The ongoing projects will be continued in the remaining part of the Plan Period							

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I	II	III	IV	V	VI	VII	VIII	IX	X
		Enhancing India's role in Global Platforms of Internet Governance.				To carry out a study to formulate Internet principles	To prepare a draft report to discuss with various stakeholders		A study carried out by IIMA is under observation.
5.	Technology Development for Indian Languages	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	-	25.00	-	<u>New Projects</u> Initiation of Centre of Excellence for Localization in Indian Languages (CoE-LIL) Development of Indian Language to English Machine Translation System for Judicial Domain Development of Automatic Speech Recognition for Agriculture and Weather Information – ASR Consortium – Phase -II	Building up competency for the development of Language enabled localized services and products in all Indian languages. Machine Translation System for Indian Language to English for Judicial Domain Voice based agricultural and weather information system	January 2015 December 2014 December 2014	SFC proposal being finalized Project recommended by WG for implementation Project Initiated

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I	II	III	IV	V	VI	VII	VIII	IX	X
		collaborative development of futuristic technologies leading to innovative products and services.				<p>Development of Captcha in Indian Languages</p> <p>New Framework for Analysis, Generation and Translation in Indian Languages (Kannada and Telugu)</p> <p>Indian Languages Technology Proliferation and Deployment Centre (TDIL Data Centre) Phase -II</p> <p>Sanskrit-Hindi Machine Translation System-Phase -II</p> <p><u>On-Going Projects</u></p> <p>Six Consortium Mode projects –Phase –II in the areas of Eng-Indian languages Machine Translation , Indian</p>	<p>Captcha in Indian Languages</p> <p>Improved Machine Translation systems in Indian Languages</p> <p>Dissemination of Indian Languages resources and tools</p> <p>Development of Sanskrit-Hindi Machine Translation System and Tools</p> <p>Enhancement of systems Performance of MT , OCR and OHWR and CLIA in Indian</p>	<p>September 2014</p> <p>September 2014</p> <p>December 2014</p> <p>December 2014</p> <p>December 2014</p>	<p>Project being initiated</p> <p>Project initiated</p> <p>Project initiated</p> <p>Project being initiated</p> <p>Phase –II consortia projects are being implemented</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
						<p>Languages – Indian Languages Machine Translation , OCR , OHWR and Cross-lingual Information Access (CLIA) [Systems with enhanced efficiency and more languages pairs]</p> <p>Text to Speech integrated with Screen reader for 12 Indian Languages and TTS for 6 Indian Languages for Android based Mobile System</p> <p>Dependency Annotation for Indian Languages</p> <p>Development of Virtual Keyboard for Indian Languages</p>	<p>Languages</p> <p>Enhancement of TTS System integrated with screen reader in terms of System Performance and TTS for Mobile devices</p> <p>Indian Language Resources for NLP Research</p> <p>Alpha version of Virtual Keyboards for Mobile and wireless devices in 14 Indian Languages</p>	<p>February 2015</p> <p>February 2015</p> <p>February 2015</p>	<p>Browser Plug-in for Mozilla and Chrome Browser for 7 Indian Languages developed and made available through TDIL Data Centre</p> <p>Project under implementation</p> <p>Project under implementation</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
						Development of annotated corpora for Indian Languages	Annotated corpora of 100,000 sentences each for 17 Indian Languages	December 2014	Project under implementation
						Development of Dravidian WordNet South Indian Languages	WordNet for 20,000 synsets each for 4 South Indian Languages	December 2014	20,000 synsets for each 4 south Indian languages developed
						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	December 2014	Alpha version Phonetic Engine in 7 Indian Languages developed
						Development of Pronunciation Lexicon Standards in 5 Indian Languages as per W3C Standards	PLS Data of 200000 words for 5 Indian Languages	December 2014	Project under implementation
						Stake holders consultation and Validation of the following : Consolidation of inputs	Web Internationalization , Standardization enable Web in 22	December 2014	First draft on Indic Layout Task Force published by W3C Internationalization WG.

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						for internationalization in W3C standards namely CSS, PLS, SSML Xforms, Mobile Web, XHTML and E-Gov Linked Data under W3C India initiative Development of Basic Information Processing Kit for 22 Indian Languages and development of Indian Languages fonts for Mobile handsets.	Indian Languages Language CD for New OS like Windows 7.0 & above	November 2014	Language CD for Windows 8.1 & UBUNTU LINUX 5.0 made available.
6.	Cyber Security (including CERT-In, IT Act)	• Security Policy, compliance & assurance	-	120.00	-	Enabling improvement of the security posture of organisations and cyber space and enhancement in the ability of IT systems to resist cyber attacks	Enablement and Verification of security posture, compliance and preparedness of Government and critical sector organisations	• Ongoing. Number of cyber security mock drills conducted at national level and participation at international/ overseas level	- US-India Joint Cyber Security Exercise, focussed on information sharing & incident collaboration, was conducted during September 2014. -Participated in ASEAN CERTs incident handling drill (ACID 2014) held

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		Cyber Security Eco-system				Initiatives for Implementation of National Cyber Security Policy.	Cyber Security infrastructure / mechanisms for security threat early warning and response to security threats.	Number of organisations enabled for security best practices compliance and assurance Obtaining approval and finalisation of RFP for the 3 key initiatives: establishment of (i) National Cyber Co-ordination Centre, (ii) Botnet Cleaning Centre and (iii) Malware Analysis Centre.	during Sept 2014. -A National Drill focusing on Finance, Power, Oil & Natural Gas, IT Service providers, Telecom and space sectors was held on 23 rd Dec 2014. 8 organisations enabled for security best practices compliance and assurance. Detailed Project Report (DPR) for Setting up of National Cyber Coordination Centre (NCCC) has been prepared and the Centre is in the advanced stage of approval for initiation. Project for setting up of Botnet Cleaning & Malware Analysis Centre is under

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I	II	III	IV	V	VI	VII	VIII	IX	X
		<ul style="list-style-type: none"> • Security awareness, skill development and training • Security R&D for indigenous 				<ul style="list-style-type: none"> • Trained manpower to implement techniques to secure IT infrastructure. • Trained manpower to collect, analyse and process digital evidence. <p>Pre trained manpower will help in securing cyber space and check cyber crimes.</p> <ul style="list-style-type: none"> • Development /enhancement of skills and 	<p>Awareness and training programmes to facilitate information sharing to deal with crisis situations.</p> <p>Research and development of indigenous cyber</p>	<ul style="list-style-type: none"> • Ongoing Number of persons trained on specific topics of cyber security • Ongoing Formulation of proposals with 	<p>implementation. process for procurement of equipments and site preparation are in progress.</p> <p>CERT-In has conducted 19 trainings on various specialized topics of cyber security and 665 officers including System/Network Administrators, Database Administrators, Application Developers, IT Managers, Chief Information Security Officers (CISOs)/ Chief information officers (CIOs), and IT Security professional have been trained.</p> <p>R&D proposals were formulated in the thrust areas and 13 projects</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
		skills & capabilities				expertise in areas of cyber security	security solutions, proof of concepts and prototypes and skilled manpower in areas of cyber security including <ul style="list-style-type: none"> • Crypto Analysis & Research • Network & System Security - Mobile • Monitoring & Forensics • Vulnerability assessment and remediation through sponsored projects at recognized R&D organisations 	special focus on cryptanalysis, malware research, mobile security, cloud security, advanced cyber forensics & evaluation of proposals by Working Group and initiation of the projects	initiated in the areas of (i) Multi-media forgery detection, (ii) Robust and generic model for e-security index, (iii) Person authentication using on-line hand-writing, (iv) Detecting security vulnerabilities in Android applications, (v) Digital Forensics for cloud environment, (vi) R&D in cryptography including analysis of side channel attacks and (vii) Cyber Forensics training facility and awareness creation

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		<ul style="list-style-type: none"> Security incident – early warning and response (CERT-In) 				<ul style="list-style-type: none"> Enhancing the security of communications and information infrastructure in the country 	Rapid response, resolution and recovery	<p>Average time taken to register, initiate action and provide initial response to a reported security incident</p> <p>% of incidents successfully handled out of total number of incidents reported</p>	<p>A total no. of 97,755 security incidents were handled by CERT-In with average response time of 4 hrs.</p> <p>85 % of incidents successfully handled out of total number of incidents reported</p>
7.	Promotion of Electronics/ IT Hardware Manufacturing			85.00		(a) Issuance of Letters of Commitment after appraisal of DPRs & execution of final agreements with consortia of JIT(Jaypee; IBM; Tower Semiconductor Ltd.) and HSS(HSMC Tech.; ST Microelectronics and Silterra for setting up of Semiconductor Wafer Fabs facilities for manufacture of Chips in India. Also	These would encourage investment in electronics/ IT hardware manufacturing sector and also provide employment opportunities in the Country.	March 2015	The Union Cabinet in the meeting held on 12.02.2014 considered the Cabinet Note dated 10.02.2014 and has approved setting up of semiconductor wafer fabrication (FAB) manufacturing facilities in the country. The Cabinet has authorized the Empowered Committee (EC) to take all decisions to implement the FAB projects in furtherance of the decision of the Cabinet. Letters of Intent (LoI) dated 19.03.2014 were issued to the two consortia with 28.04.2014

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I	II	III	IV	V	VI	VII	VIII	IX	X
						to take further action for engagement of consultancies etc. and other action expedient in the matter.			as last date for submission of documents for demonstration of commitment for setting up of FAB facility in India. Both Consortia sought extension of time to comply with the requirements of LoI, which was provided to them with the approval of Empowered Committee. While the Detailed Project Reports (DPRs) were submitted by both M/s. HSMC Technologies India Pvt. Ltd. and M/s. Jaiprakash Associates Ltd., on behalf of their respective consortia, vide letters dated 30.09.2014 and 29.08.2014 respectively, however, both the consortia are yet to submit the other documents required for demonstration of commitment. Preliminary assessment of Detailed Project Reports submitted by both Consortia was undertaken and several deficiencies were observed in the Detailed Project Reports

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I	II	III	IV	V	VI	VII	VIII	IX	X
									<p>which were pointed out to them on 05.11.2014. Subsequently, both M/s. HSMC Technologies India Pvt. Ltd. and M/s. Jaiprakash Associates Ltd. sought time till 31.03.2015 and 31.01.2015, respectively for submission of deficiencies in DPR and other documents required for demonstration of commitment, which has been provided to them as per their request, with the approval of Empowered Committee. Both the consortia are yet to submit the requisite information/ documents.</p> <p>Non-Disclosure Agreement and Contract dated 18.11.2014 and 26.11.2014, respectively, have been executed with M/s. Luthra & Luthra Law Offices for providing legal consultancy services pertaining to FAB projects. RFP for selection of Consulting Firm for 3rd party appraisal of Detailed Project</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
						(b) To take further action for implementation of the policy for providing preference to domestically manufactured electronic products (including telecom equipment) in Government procurement with the			<p>Reports submitted by both consortia has been issued for fourth instance on 12.12.2014. Pre-Bid meeting was held by the Proposal Evaluation Committee with the representatives of consulting firms on 22.12.2014.</p> <p>The process of re-constitution of Empowered Committee which was set up to identify technology and potential investors for establishment of Semiconductor Wafer Fabs in India, is underway.</p> <p>(b) The revised policy for providing preference to domestically manufactured electronic products (including telecom equipment) in Government procurement was notified by the Government, vide Notification dated 23rd December 2013 for increasing share of domestically manufactured electronic products which includes telecom equipment also.</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
						target of achieving procurement of appx. Rs. 1000 crore			<p>9 generic electronic products, which are procured across sectors, viz., Desktop PCs, Laptop PCs, Tablet PCs, Dot Matrix Printers, Smart Cards, LED Products, Biometric Access Control/ Authentication Devices, Biometric Finger Print Sensors and Biometric Iris Sensors have been notified by the DeitY and 23 Telecommunications Products have been notified by the Department of Telecommunications (DoT), in furtherance of the policy. DGS&D has issued guidelines for implementing the policy in their rate contract process.</p> <p>The Committee of Secretaries (CoS)'s meeting was held at Cabinet Secretariat on 26.11.2014 regarding implementation of the policy for providing preference to domestically manufactured electronics products in Government procurement.</p>

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						(c) To take further action for attracting investment from appx. 25 units or investment proposals of Rs. 8000 crore, seeking incentives under Modified Special Package Scheme (M-SIPS) ; Review of Policy; Finalization of			Vide letter dated 10.12.2014, all Ministries/Departments (except Ministry of Defence) and Chief Secretaries of States were informed regarding the implementation of the policy, insertion of template in their RFD/Tender and submission of their quarterly report to this Department starting from 31.12.2014. NICS I has reported appx. Rs. 7 crore worth of procurement and M/s. BBNL has issued purchase order of Rs. 291 crore worth of procurement as per policy. (c) In all, 55 proposals received seeking incentives with investments approx Rs 18898 crore. Since, April 2014, 24 proposals with investment of Rs. 3951 crore received. So far approval orders issued for 29 proposals with investments approx Rs 4420 crore. Out of which, 21 approval orders to the tune of Rs. 3269 crore issued after April 2014. First sanction order of Rs 12.82

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						<p>disbursement guidelines and disbursement of incentives to the approved applicants.</p> <p>(d) The “Electronics and Information Technology Goods (Requirements for Compulsory Registration) Order, 2012” had been notified through the Gazette of India on 03 Oct. 2012 under the provision of compulsory Registration Scheme of BIS Act, 1986. This order becomes</p>			<p>crore for disbursement of incentives under M-SIPS released in favour of M/s Bosch Automotives Electronics, Bangalore for investments under M-SIPS in automotive electronics. The draft final Cabinet Note (DCN) regarding review of policy submitted for seeking the approval of MCIT after inter-ministerial consultations.</p> <p>(d) The “Compulsory Registration Order” came into effect from 3rd July 2013. This Order initially covers 15 notified electronic products categories. The following Fifteen additional electronic items have been notified under the ambit of CRO on 13th November 2014: Power Adaptors for IT Equipments; Power Adaptors for Audio, Video & Similar Electronic Apparatus; UPS of rating ≤ 5kVA; Invertors of rating ≤ 5kVA; Secondary</p>

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						effective from 03 rd July 2013 and covers 15 electronics products. To take action for expansion of this order by inclusion of more electronics products in the ambit.			Cells / Batteries / Power Banks containing Alkaline or other non-acid Electrolytes for use in portable applications; D.C. Supplied Electronic Control gear for LED Modules; Self-Ballasted LED Lamps for General Lighting Services; Fixed General Purpose LED Luminaires; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machines / Duplicators; Smart Card Readers; Mail Processing Machines / Postage Machines / Franking Machines and Passport Reader. To develop conformity assessment infrastructure in the country a "Scheme for Financial Support for Test Labs" has been announced. 4 labs have been approved for GIA under the lab's scheme of DeitY and grant –in-aid of Rs. 56 lakh and Rs. 57.10 lakhs appx. released for two labs. The Order has resulted

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I	II	III	IV	V	VI	VII	VIII	IX	X
						(e) To take action for framing of “Electronics Development Fund” (EDF) policy for promotion of Innovation, R&D,			into 90% plus compliance testing of notified electronic goods to Indian safety standards at BIS registered labs and more than 1200 manufacturing units have been registered with BIS covering approximately 10,000 products models/series. EoI was rolled out to empanel agencies for picking of samples from market. 5 agencies have been empanelled by DeitY for sample collection under Surveillance. Surveillance module has been added in online-portal created by C-DAC. Stake-holder meetings were conducted for industry consultation. (e) The Union Cabinet on December 10, 2014 has approved the “Electronics Development Fund Policy” for promotion of R&D and IP Generation in the area of Electronics System Design and Manufacturing. The objective

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						<p>Indian IPR which includes Preparation of draft Cabinet Note and obtaining approval of MCIT. Thereafter, circulation of draft Cabinet note for inter-ministerial consultations. After necessary consultations, the final Cabinet note would be prepared for placing before the Cabinet with the approval of MCIT for obtaining decision of the Cabinet. Further, also to take action on the individual proposals for creation of funds for this purpose.</p>			<p>of the EDF policy is to support Daughter Funds including Early Stage Angel Funds and Venture Funds in the area of Electronics System Design and Manufacturing, Nano-electronics and IT. The supported Daughter Funds will promote innovation, R&D, product development and within the country in the specified fields of ESDM, nanoelectronics and IT. They will also support acquisition of foreign companies and technologies for products imported in India in large volume. The core focus of the Daughter Funds would be to develop domestic design capabilities. The Daughter Funds supported will create a resource pool of IP within the country in the specified fields. Assuming that the average participation of EDF in Daughter Fund is 25%, the policy will help leverage four times Government funding in the area of R&D and</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
						(f) To take further action for implementation of Electronics Manufacturing Clusters (EMC) Scheme, which has been approved by the Cabinet and notified on 22.10.2012 to offset disabilities faced by Electronics Systems Design and Manufacturing (ESDM) units and to			Innovation. It will help create a battery of Daughter Funds and Fund managers who will be seeking good start-ups (potential winners) and selecting them based on professional considerations. The Electronics Development Fund (EDF) shall be created in a financial institution like SIDBI or a similar organization. (f) In addition to the 7 in principle approved Greenfield clusters, 5 more Greenfield clusters were accorded in-principle approval since April 2014. Further, 25 additional clusters for the purpose of M-SIPS have been notified, in addition to 35 existing notified areas. Two Greenfield EMCs at Badwai, Bhopal and Purva Jabalpur, in the state of Madhya Pradesh has been approved on 25-8-2014 for the combined area of 90 acres with project cost of Rs. 84.17 crore and

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I	II	III	IV	V	VI	VII	VIII	IX	X
						<p>attract investments in the sector such as:-</p> <ul style="list-style-type: none"> To process initial applications for Greenfield clusters and to accord in-principle approval to five Greenfield clusters. To process the final applications for Greenfield clusters and accord approval to three applications. <p>(g) To take action for creating empowered institutional mechanism and also strengthening the mechanism for promoting ESDM activities.</p>			<p>grant of Rs. 38.62 crore. The Sanctions for release of first installment of Grant-in-aid of 20% of the Grants have been issued.</p> <p>(g) The proposal for setting up of empowered National Electronics Mission was not agreed by Planning Commission and Ministry of Finance, which has suggested making it as an advisory body.</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
						(h) To take requisite action on the proposal of Electropreneur Park submitted by STPI/DU along-with ISEA.			<p>However, two PMUs to promote Electronics System Design Manufacturing in the country by engagement of specialized manpower have been created.</p> <p>(h) Department has approved the project for setting up of an Incubator by Software Technology Parks of India (STPI), New Delhi in association with India Electronics & Semiconductor Association (IESA) and Delhi University (DU). The project is being setup with Grant-in-aid of Rs 21.17 Crore by DeitY. The Electropreneur Park is being set in area of over 10,000sq. Ft. constructed space with state of the art facilities at South Campus, Delhi University. The total project duration to set up the Electropreneur Park is 5 years. DeitY will be providing the funding support required to set up and manage the centre over the initial 5 years, thereafter the</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
						<p>(i) To take action on the proposal for setting up of Incubator Centre for Fabless/ Chip Design by STPI, Bengaluru, IIIT-Bengaluru and IIT Hyderabad.</p> <p>(j) To take further action for development of Indian CAS.</p>			<p>project will be run by the implementing agencies in a self-sustaining mode. The project will support 50 start-ups will be benefitted over a period of 5 Years. The 1st instalment of Rs. 3.58 crore released 25-06-2014.</p> <p>(i) The proposals are under consideration.</p> <p>(j) After following due tendering processes, M/s. ByDesign India Pvt. Ltd., Bangalore has been shortlisted for the development and implementation of the Indian Conditional Access System (CAS) in association with the C-DAC. C-DAC will be primarily responsible for design review, code review,</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
						(k) To take action on joint collaborative proposals with other countries through GITA			<p>monitoring, testing and validation of the entire project.</p> <p>Letter of Award was issued to M/s. ByDesign India Pvt. Ltd., Bangalore on 05.11.2014. Tripartite Agreement has been executed between DeitY, C-DAC and M/s. ByDesign India Pvt. Ltd., Bangalore for development and Implementation of Indian CAS on 18.11.2014.</p> <p>Project Review and Steering Group (PRSG) has been constituted vide O.M. dated 08.01.2014 to periodically monitor the project in all respects including technical and financial during the development and implementation stages.</p> <p>(k) To provide funding and support to Industry and Academic institutions for doing collaborative research, a</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
									proposal submitted by Global Innovation and Technology Alliance (GITA) has been approved. The project aims to promote Innovation, IP, R&D and commercialization of products, etc. in the ESDM sector by providing funding support to an Industry, for doing collaborative research with an Academic Institute in the priority areas with a timeline of not more than two years. Sectors and areas of focus would be identified by the DeitY appointed Technical Committee. It is proposed to fund 9 R&D projects under the scheme. Initial list of Countries for this bilateral programme are Canada, Finland, Israel, Japan, South Korea, Spain, Sweden, Taiwan and the UK. The total funding of the project is Rs. 15.6 crore for a period of 2 years. In this regard, administrative approval has already been issued on 14-08-2014 and acceptance of terms and conditions from GITA is

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I	II	III	IV	V	VI	VII	VIII	IX	X
						(1) To take action for implementation of scheme for National Awards in ESDM for recognizing the achievements of successful industry in the ESDM sector ; to motivate the entrepreneurs in the sector and to encourage new investment and innovation in the sector.			awaited. (1) The scheme for National Awards in the ESDM sector was announced in February 2014. As per the provisions of the scheme, the states were requested to formulate the State Level Committee and to send nominations for awards from SLC in various categories from their state by end of July 2014. Further, the period for receiving the awards was extended till 5 th January, 2015. The present status is as follow: i) The composition of the State Level Committee (SLC) has been received from Karnataka, Madhya Pradesh, Telanagana , Gujarat , Haryana, Jharkhand , Kerala, Maharashtra ,West Bengal and Orissa (10 No). ii) Chandigarh, Nagaland, Tripura and Andaman and Nicobar Island have indicated that the ESDM industry does not exist in their state.

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I	II	III	IV	V	VI	VII	VIII	IX	X
						(m) To take action to sort out tariff related issues to promote ESDM.			The nominations have been received from Karnataka, Madhya Pradesh, Telengana and Jharkhand (04 States) only. (m) Electronics is imported at zero duty under the Information Technology Agreement (ITA-1) of WTO and therefore even minor inversion of duties works against creating a level playing field for domestic manufacturers. Based on the representations received from the Industry/ Industry Associations, DeitY takes up the cases of inverted duty structure with the Department of Revenue, for resolution, on an on-going basis. Following measures have been taken for resolving inverted duty structure for promotion of indigenous manufacturing of electronic goods: <ul style="list-style-type: none"> • BCD on specified raw materials / inputs used

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									<p>for manufacture of electronic components is 0%.</p> <ul style="list-style-type: none"> • BCD on specified capital goods used for manufacture of electronic goods is 0%. • In order to promote indigenous manufacture of mobile handsets; parts, components and accessories for the manufacture of mobile handsets; sub-parts for the manufacture of such parts and components; and parts or components for the manufacture of battery chargers, PC connectivity cables and hands-free headphones of such mobile handsets and sub-parts for the manufacture of such parts and components are

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									<p>exempted from basic customs duty and excise duty. Further, Countervailing Duty (CVD) on mobile handsets is 6% while corresponding excise duty on mobile handsets is 1%, if CENVAT is not availed.</p> <ul style="list-style-type: none"> • Microprocessors, Hard Disc Drives, Floppy Disc Drives, CD ROM Drives, DVD Drives/DVD Writers, Flash Memory and Combo-Drives are levied concessional excise duty of 6% to promote indigenous manufacturing of computers. • In order to promote indigenous manufacturing of Personal Computers,

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									<p>SAD has been exempted on import of inputs/components used in the manufacture of personal computers (laptops/desktops) and tablet computers falling under heading 8471.</p> <ul style="list-style-type: none"> • BCD on Set Top Box increased from 0% to 10% to promote indigenous manufacture of Set Top Box. • Following measures have been taken for promotion of domestic manufacturing of Televisions: <ul style="list-style-type: none"> ▪ BCD on Liquid Crystal Display (LCD) and Light Emitting Diode (LED) Television Panels reduced to

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									<p>0%.</p> <ul style="list-style-type: none"> ▪ BCD on Colour Picture Tubes for manufacture of Cathode Ray TVs has been reduced from 10% to 0%. ▪ BCD on specified parts for manufacture of Panels of LCD and LED TV (including open cell, plate diffuser, film diffuser, etc.) has been reduced from 10%/7.5% to 0% to rationalize the tariff structure. • BCD on Telecommunication equipments not covered under the Information Technology Agreement of World Trade Organization has

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									<p>increased from 0% to 10%, in order to promote domestic manufacturing of these equipments.</p> <ul style="list-style-type: none"> • In order to promote indigenous manufacturing of Solar Photovoltaic Cells and Modules, Excise Duty has been exempted on: <ul style="list-style-type: none"> ▪ EVA sheets and back sheets and specified inputs used in their manufacture; ▪ Solar tempered glass used in the manufacture of solar PV cells and modules; ▪ Flat copper wire for the manufacture of PV ribbons for use in solar cells and modules;

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									<ul style="list-style-type: none"> • BCD has been exempted on: <ul style="list-style-type: none"> ▪ Specified goods used in manufacture of solar back-sheet and EVA sheet for solar PV cells/modules; ▪ Flat copper wire for the manufacture of PV ribbons. • To promote indigenous manufacturing of LED Light Emitting Diode (LED) Lamps, excise duty has been reduced to 6% on LED lamps and LEDs required for manufacture of such lamps and SAD has been fully exempted on LEDs used for manufacture of LED Lamps. Excise Duty on LED driver and MCPCB (Metal Core Printed Circuit Board) for

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									<p>use in manufacture of LED lights has been reduced to 6%.</p> <ul style="list-style-type: none"> • A concessional import duty structure of 6% CVD and Nil SAD has been prescribed on parts of all computer printers imported by actual users. • A concessional import duty structure of 6% CVD and Nil SAD has been prescribed on parts for manufacture of DVD writers, Combo drives and CD Drives subject to actual user condition. • In order to promote indigenous manufacturing of Smart Cards, SAD has been exempted on import of PVC sheet and ribbon used in the manufacture

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						(n) To bring out a scheme to provide incentives to manufacturers of ITA Products/Zero Duty products to offset disabilities in manufacturing.			<p>of smart cards.</p> <ul style="list-style-type: none"> To promote indigenous manufacturing of Blood Pressure Monitors and Gluco-meters, BCD has been reduced to 2.5% with 6% CVD and Nil SAD on parts of Blood Pressure Monitors and Blood glucose monitoring systems (Gluco-meters) on actual user basis. <p>(n) The benefits of the Deemed Exports are not available to the ITA / zero duty electronic goods whereas most of the electronic goods are covered under the ITA Agreement and are being imported in the country at zero duty. The Indian electronics industry is suffering from various disabilities in addition to the impact of the Information</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
									Technology Agreement (ITA-1). If deemed export status is accorded to the electronics sector, especially for the items which are being imported at zero duty, the industry would be able to import the inputs required for manufacturing the electronic products at zero duty. This will help in reducing the adverse impact of inverted duty and would enable them to compete in the international market. In order to boost manufacturing, it is essential to provide a rationalized tariff structure to the Domestic tariff Area (DTA) unit manufacturing ITA-1 and notified zero duty electronic items against import of these items, wherein all inputs for manufacturing of these items are also permitted for import at zero duty. A proposal was sent by DeitY to the Department of Commerce and Ministry of Finance vide

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						(o) To take action for creation of National Centre for Large Area Electronics as Joint Industry/academic effort at IIT K to promote cutting edge research in the emerging area.			<p>letters dated 31.10.2011, 26.12.2012, 21.11.2013, 3.9.2014 and 25.10.2014 requesting that DTA sales of ITA-1/zero duty electronics products to be treated as physical exports and to extend all the benefit of export for increased competitiveness and boosting domestic manufacturing and a scheme is also being finalized in this regard.</p> <p>(o) Large area electronics is an emerging area of electronics which is based on the monolithic integration of electronic components on amorphous substrates which typically results in products that are large in size with length scales ranging from a few centimeters as in sensors, to a few decimeters as in displays and lighting, to several meters as in organic solar cell based panels. IIT Kanpur submitted a Detail Project Report (DPR) to set-up</p>

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						(p) To take action for setting up National Centre of Excellence in Technology for Internal Security(NCETIS) to develop state-of-art-technologies, vital to our security agencies at IIT Bombay			National Centre of Excellence in Large Area Flexible Electronics to be set up in IIT Kanpur. The total outlay is Rs 132.99 crore over the period of five years and Rs 111.12 crore will be funded by DeitY. The contribution of IIT Kanpur in the centre will be Rs 21.87 crore. CFLEX has been approved by the Department and the Administrative Approval issued on 14-11-2014. The grant in aid of Rs. 27.44 crore was also released on 18.11.2014 to IIT-Kanpur. MoU executed with IIT Kanpur on 16.12.2014.
									(p) The action has been taken to set up National Centre of Excellence in Technology for Internal Security(NCETIS) with the objective to develop state-of-art-technologies, vital to our security agencies (Police and Para military forces), providing the rescue and relief operations. The centre would be set up in IIT

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						(q) To bring out a policy to promote fabless semiconductor industry in the country.			Bombay. Detail Project Report has been submitted by IIT Bombay with outlay of Rs 100.86 crore. The SFC meeting held on 9-12-2014 and minutes are being finalized.
						(r) To take action on			(q) Semiconductors, also known as chips or ICs, are at the heart of any electronics product and constitute around 30% of the total value of the Bill of Material (BOM) and in case of high-end equipment and mobile handsets; this content goes as high as 60%. Presently, most of the major chip innovations have come from fabless design companies. India has a huge opportunity to develop the fabless design industry in the country. In order to tap this opportunity, this department has formulated a draft policy, which was circulated on 30-6-2014 for inter-ministerial consultations and same is being finalized. (r) 9 applications have been

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						<p>the Scheme to provide financial support to MSME to promote manufacturing in the country, built quality into Indian manufacturing & also to encourage exporters</p>			<p>received seeking grant reimbursement. Sanction letter has been issued for providing GIA of RS. 1,40,085/- for Two models to M/s EOS Power India Pvt. Ltd, Mumbai. 5 applications were not confirming with the requirements of Scheme and 3 applications are in process.</p> <p>(s) An Incubation Centre at IIT- Patna with the focus of promoting innovation in the area of Medical Electronics i.e. Micro Electro Mechanical Systems (MEMS: Lab on Chip), Low Cost Medical Diagnostic System, Low Cost Ultrasound, Electronic Device Reliability and Medical/Industrial X-ray Tubes, Medical Telemedicine related Electronic products has been approved on 11.12.2014. The overall project outlay of this project is Rs 47.10 crore, which is proposed to be implemented through joint</p>

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									<p>funding from DeitY (Rs 22.10 Crore) and Government of Bihar (25 Crore) as matching Grant. This incubation centre is being set up in area of 3000 sq meters constructed space. The administrative approval has been issued. The project envisages 45 start-ups over a period of 5 years The Working Group recommendation is presently under consideration of DeitY for approval.</p> <p>(t) To promote scientific and technological research in Medical Electronics sector in India a proposal submitted by Biotechnology Industry Research Assistance Council (BIRAC) has been approved on 05.11.2014 on the recommendation of Working Group and the administrative approval issued on 17.11.2014. The proposal aims to fund a portfolio of Indian led pilot projects that seems to target innovations in the multi-disciplinary areas comprising</p>

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									<p>of electronics, engineering, medical devices, healthcare, and software, algorithms and information technology.</p> <p>(u) To promote manufacturing of medical electronics and attracting investment in the sector, the Invitation letters for consideration of the recent policies of Government of India, was sent to 30 major medical electronics companies around the world on 16-12-2014 and the Ministry of Health and Family Welfare and Department of Pharmaceuticals were also requested on 1-1-2015 to take immediate steps to comply to PMA policy in government procurement of Medical Electronic Devices.</p> <p>(v) Hon'ble MCIT, led various delegations to some leading ESDM countries like Germany and South Korea to market investment opportunities in the Electronics System Design and Manufacturing (ESDM) in</p>

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									<p>India. Also other high level delegations led by Secretary and Joint Secretary, DeitY had also visited to Taiwan, Singapore, USA, Germany and Japan to attract investment in ESDM sector in India. Several one-to-one meetings with CEOs of multinational companies were held and various round-tables were also organised with leading electronics manufacturers from different countries, industry associations, PSUs, and industry specific like PCB & LED industry. Several delegations from Taiwan, USA, Israel, South Korea, Canada and Japan visited India to take this collaboration in ESDM sector forward and discuss the future course of action.</p> <p>As a follow-up to these visits, Joint Working Groups (JWG) was formed with Japan to facilitate discussions and interactions for various</p>

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									<p>opportunities in the ESDM Sector. Earlier, Japan Help Desk was constituted within the department to provide an institutional mechanism for facilitating this effort and converting the potential into real investments. The Indian side has also proposed a “Japan-Electronics Industrial Township and Taiwanese Industrial Park” in India so that companies from Japan and Taiwan may invest in these parks/township which will give them familiar atmosphere and will be dedicated to Japanese/Taiwanese Electronics Industries.</p> <p>The Second Joint Working Group (JWG) meeting was convened between India and Japan in Japan. Three different sessions, Industry to Industry, Government to Industry and Government to Government were conducted during the JWG to sort-out various hindrances and decide</p>
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									on future road-map for the benefit of electronics manufacturing industry. The Industry to industry dialogue was led by India Electronics and Semiconductor Association (IESA) from the Indian side and by JEITA from the Japanese side.
8.	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	-	<p>1.Up gradation of Test & Calibration facilities to cater to state-of-the-art products with emerging technologies</p> <p>2. Revenue target realization.</p> <p>3. Maintenance & upgrade of IT test tools and infrastructure</p> <p>4. Approval of External</p>	<p>Up gradation of test and calibration facility to meet the demand industry.</p> <p>Revenue of Rs. 54 crores approx. likely to be generated.</p> <p>More than 50 eGov</p>	<p>March, 2015</p> <p>March, 2015</p> <p>March, 2015</p> <p>March, 2015</p>	<p>Test & Calibration infrastructure in different stages of procurement</p> <p>Labs are expected to earn Rs. 35 Crores</p> <p>Security tool (Appscan) has been upgraded</p> <p>Completed</p>

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						<p>agencies for testing of eGov project</p> <p>5. Setting up of common Criteria (CC) test labs</p> <p>6. Strengthening of SPV panels and products testing at two STQC labs</p> <p>7. National Capacity Building in Quality management System, Information Security and Practice Oriented skill based trainings</p> <p>8. Progress of</p>	<p>projects will be evaluated</p> <p>5-10 agencies are likely to be approved</p> <p>2-3 labs are likely to be established</p> <p>Infrastructure support for quality assurance of SPV products to meet requirements of National Solar Mission</p> <p>More than 300 training programs to be conducted across India</p> <p>Construction</p>	<p>March, 2015</p> <p>March, 2015</p> <p>March, 2015</p> <p>March, 2015</p>	<p>In process</p> <p>In process.</p> <p>Around 200 trainings organized CPWD has been requested to submit project estimates. The estimate are likely to be received by Jan., 2015 end.</p>

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						<p>construction activity of STQC Building at Noida.</p> <p>9. Human Resource Development by conducting DOEACC 'O' & 'A' level courses in NE region.</p>	<p>activity of first phase to be revived</p> <p>SC/ST/OBC/women / weaker section of society and unemployed youth of NE region will be benefited in Computer field.</p>	<p>March, 2015</p>	<p>A few trainings have been organized at NE Region & Hyderabad.</p>
9.	Technology Development Council (including ITRA)	<p>To undertake & Support R&D projects for development of :</p> <p>(a) High Performance computing (HPC)</p> <p>(b) IT in emerging areas which includes Green IT, Digital Preservation, Perception</p>	-	50.00	-	<p>(i.) Initiation of new Application Oriented and Basic R&D Projects (15 Nos.)</p> <p>(ii) Creation of Patents based IPRs</p> <p>(iii). R&D Translations/ ToTs</p> <p>(iv) Launch of National Supercomputing Mission</p> <p>(v) Continued support to ongoing projects towards further progress and completion.</p>	<p>Availability of (i)Enhanced trained manpower, (ii)Strengthening of R&D and Innovation ecosystem in the country, and (iii) Indigenous technologies and product development facilitation in the various thrust areas of IT</p>	<p>March 2015 (for i. to v)</p>	<p>Following new project proposals were approved and are being implemented:-</p> <ul style="list-style-type: none"> • A prototype microprocessor simulator named BhartiSim has been developed. • BOSS-MOOL (Minimalistic object oriented Linux) developed which also supporting local languages (Hindi & Tamil) at Console Level • Development for Android based mobile devices. Following applications

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		Engg, FOSS, Bioinformatics (c)Information Technology Research Academy (ITRA)							have developed:- - Indic Keyboard with 13 languages Interfacing of external gadgets using WiFi, Bluetooth and USB - Tele-presence Robot prototype Automatic weather station prototype • Two Indian Patents filed. • Software Technologies developed on Alzheimer Disease, Detection Speech Training Aids, Hearing Aids, Brain Computer Interaction, Robotic Arms etc.
		IT for Industrial Applications To strengthen local base for R&D/ application in Electronics and IT in the field of	-	10 Cr. In outlay of Rs 50 Cr of TDC Budget	-	National Mission on Power Electronics Technology Phase II (NaMPET II) • Initiation of seven new exploratory/advanced technology/ demonstration/deployment/ product development sub projects	Enhancement of R&D infrastructure and design capability in the area of power Electronics Technology contributing to design led Electronics hardware manufacturing	2 sub projects July, 2014 5 sub projects Dec., 2014	2 sub projects initiated in Sep., 2014, 1 initiated in Oct., 2014, 2 initiated in Dec., 2014 & 3 initiated in Jan., 2015

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I	II	III	IV	V	VI	VII	VIII	IX	X
		Industrial Electronics, Agriculture and related areas.				<ul style="list-style-type: none"> • Distribution of student awards for best projects in power electronics/power system at B.Tech/M.Tech level • Holding of 3 Short-term Courses in different areas of Power Electronics • Organization of Second National Workshop 		<p align="center">Nov., 2014</p> <p align="center">June, 2014 June, 2014 Sep., 2014</p> <p align="center">Nov., 2014</p>	<p align="center">Awardee announced in Nov., 2014</p> <p align="center">2 held in April, 2014 1 held in June, 2014 1 held in Nov., 2014</p> <p align="center">Held in Nov., 2014</p>
						<p>Application of Electronics for Agriculture & Environment (e-AGRIEN)</p> <ul style="list-style-type: none"> • Organisation of workshop with state & Central Pollution Control Boards on Electronic Nose for 	<p>Enhancement of R&D infrastructure and design capability and demonstration on application of electronics for agriculture and environment</p>	<p align="center">July, 2014</p>	<p align="center">Held in July, 2014</p>

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						monitoring obnoxious gases • Initialization of TOT process for Project development of handheld electronic nose • Field trial of inward leaf inspection system for Indian Tea industries Automation System Technology Centre (ASTeC) • Approval for TOT of thirteen ASTeC products/ technologies and formal closure of ASTeC project.	Availability of cost effective solutions of Automation Technologies to Indian user & manufacturing industries	Aug., 2014 Sep, 2014 Aug., 2014	Initiated Completed Completed in July, 2014
						Intelligent Transportation System (ITS)	Demonstration and availability of cost effective IT		

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						<ul style="list-style-type: none"> Completion of ITS project <p>Electronic Personal Safety Device (ePSD)</p> <ul style="list-style-type: none"> Prototype development of ePSD <p>Electronic Personal Safety System (ePSS)</p> <p>Initiation of new projects in areas of industrial applications</p>	<p>solutions for the road transportation sector</p> <p>Development of basic device for enhancing safety of persons in distress</p> <p>Pilot demonstration of concept of back end system for enhancing safety of persons in distress using readily available devices and Deployment of ePSS in Jaipur Police Control Room</p> <p>Promote R&D for indigenous systems/ technologies for industrial applications</p>	<p>June, 2014</p> <p>Aug., 2014</p> <p>June 2014</p> <p>Dec.,2014</p>	<p>Completed in June, 2014</p> <p>Prototype developed</p> <p>Completed</p> <p>7 projects initiated</p>

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	TDC (including ITRA)	Promotion of Innovation & Intellectual Property Rights (IPR)				i. Initiation of new R&D Projects based on Applied research and Product development		March 2017	Initiation of two R&D projects under Multiplier Grants Scheme.
						ii. Creation of Patent based IPRs			37 Patents has been generated ;14 patents have been filed ;7 Trademarks registered. 47 IPR Awareness workshops supported at academic institutions and industry associations
						Continued Support to ongoing projects towards further progress and completion.	Promotion of innovation in ICTE by supporting incubation activities and nurturing of entrepreneurs.	March 2017	1. 27 TIDE Centers supported. 121 startup supported. The scheme is under process. 2. 8 On-going NE Projects being supported
10.	Micro-electronics & Nanotechnology	To establish nanoelectronics &	-	75.00	-	2 nanoelectronics projects will be initiated.	It would enable creation of a strong R&D base	One by December 2014 and one by February 2015	One project has been initiated in April 2014 for development of Nano ZnO and SnO ₂

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	Development Programme	microelectronics base in the country through setting up of centres of excellence, technology development & capacity building through sponsored R&D projects in the area of nanoelectronics, nanometrology, Microelectronics and MEMS.				3 microelectronics projects will be initiated.	in microelectronics and nanoelectronics in the country Two by December 2014 and one by February 2015	following Green Route approach for sensor devices. (i) Following 2 projects initiated: <ul style="list-style-type: none"> • A project for development of a Bluetooth (Class 2) Transceiver in the 2.4-2.5GHz Industrial, Scientific and Medical (ISM) band. • Administrative approval issued for initiation of a project for Development of Specialized Manpower for Chips to System Design for implementation at 60 institutions across the country including all IITs and NITs. Implementation of the project would be subject to availability of funds. (ii) A project for development of High Density	

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									Interconnections using solder bumps and Cu pillars is being evolved.
		To protect the Intellectual Property (IP) i.e. layout-design of a Semiconductor Integrated Circuit by Registering the Design in Semiconductor Integrated Circuits Layout-Design registry				Protection of registered Intellectual Property (IP) i.e. layout-design of a Semiconductor Integrated Circuit	Prevent infringement of IP of semiconductor integrated circuits and also to promote semiconductor integrated circuits layout-design.	Continuing Process	One application for layout design registration received in 2014-15.
11.	Convergence, Communication, Broadband & Strategic Electronics	To undertake and support R&D projects for the development of Convergence, Communications and Broadband	-	26.00	-	Initiation of around 20 projects in the following area: Next Generation Communication & Convergent technologies, Cloud Computing/Communication over Cellular Network, Advanced	The R&D will lead to establishing indigenous capability in emerging technologies	On an average 4-5 projects are proposed to be initiated. The projects are generally of 1 to 3 years duration.	Following new project proposals were approved and are being implemented:- - Multiuser MIMO in 3GPP LTE standard using Soft-computing Tools, - Converged Cloud Communication

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		Technologies				Networks and Mobile Adhoc Network, LTE, beyond 4G/5G, Big Data analytics for societal applications & disaster management, Green Communication , Internet of Things, Cyber Physical System ,WSN , Multilingual broadcast applications, SoC Technology, Strategic Electronics, Microwave and Millimeter wave sensor, THz wireless System & EMI/EMC application.			Technologies, - Energy efficient radio access technologies and networking for 4G LTE BWA, - Early Fire detection and Safe Exit Guiding System, - SDR Development Platform, - Pilot Deployment of Multilingual DVB Subtitle solution, - Control of Cyber-Physical Systems - Applications to Smart Grid and Formation of UAVs, - Low Power Terabit / Second Interconnects for Broadband Communication Links, - Small Cell WiFi Networks for the Enterprise, - Study of Software Defined Networks, - Robust Comm. Receiver based on OFDM for TVWS , - Distributed Bayesian learning for Big Data with application to 4G,

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									- Efficient MAC & Network layer for IoT, There are approximately 50 ongoing projects that are under implementation and are being monitored by respective PRSG.
12.	MLA	To undertake and facilitate Research, Development and deployment activities		10.00		<ul style="list-style-type: none"> 4 projects will be initiated 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 initiated during 1 st quarter 4 projects will be initiated during 2 nd /3 rd quarter	Project Initiated: 1. Design & Development of Centralized System for Heart Rate Variability Analysis jointly with AIIMS-Delhi 2. Implementation of ‘Annapurna Krishi Prasaar Seva’ (Implementation of Interactive Information Dissemination System in collaboration with Acharya N G Ranga Agricultural University and Prof Jayashankar Telangana State Agricultural University) 3. Development of ‘Punarjjani’ (Web based tool

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									<p>to assist special teachers in assessment of mentally challenged children) to integrate vocational assessment checklist and translate the tool in Hindi & other Indian languages</p> <p>4. Deployment of 'Punarjjani' in North-East (NE) region of the country covering 5 NE states and in Panipat, Haryana; Pune, Maharashtra and Coimbatore, Tamil Nadu</p> <p>5. Development & integration of accessible educational games for children with disabilities with 'Punarbhava'</p> <p>6. ICT based integrated development program for women empowerment in Lallapura craft cluster of Varanasi to empower</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
						<ul style="list-style-type: none"> 4 projects will be completed 	The projects will be completed as per schedule.	<p>women through various solutions/technologies including Chic™ CAD (a software tool for artisans to create 2D designs), Basic Computer training and health awareness</p> <p>Project Completed:</p> <ol style="list-style-type: none"> Implementation of Annapurna Krishi Prasaar Seva (Implementation of Interactive Information Dissemination System in collaboration with Acharya NG Ranga Agricultural University (ANGRAU) and Prof Jayashankar Telangana State Agricultural University (PJTSAU)) Development and Deployment of Mobile Based Agricultural Extension System in North-East India (m4AgriNEI) 	

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Sl. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2014-15 (Rupees in crore)			Quantifiable Deliverables / Physical Outputs	Projected Outcomes	Processes/ Timelines	Status as on 31.12.2014
			Non-Plan	Plan Budget	Comp IEBR				
I	II	III	IV	V	VI	VII	VIII	IX	X
									<p>3. Deployment Chic™ CAD tool at ‘ADHAR NGO’, Kanpur (UP) & Mitraon Village, Najafgarh, Delhi and at Swayambhar Nari NGO, Kolkatta, West Bengal as Kantha CAD.</p> <p>4. Deployment of ‘Punarjjani’ in North-East (NE) region of the country covering 5 NE states and in Panipat, Haryana; Pune, Maharashtra and Coimbatore, Tamil Nadu</p>
13.	Components & Materials Development Programme	<ul style="list-style-type: none"> To support infrastructure development and R&D and technology development projects for the developme 	0.60	27.00	17.00	To initiate new projects on E, Aerogel super capacitors, Fiber Laser Modules, Fuel cell using nano functional materials,	E-waste recycling, energy storage and generation, Fiber lasers for medical application	Sept 2014	<ul style="list-style-type: none"> New Projects on fuel Cell using nano functional materials, packaged fiber Laser Modules, Study on demand potential of super capacitor in India & global market, pilot scale production of aerogel super- capacitors, environmentally sound methods for Recovery of

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I	II	III	IV	V	VI	VII	VIII	IX	X
		nt of Electronic Materials at C-MET <ul style="list-style-type: none"> • To support development and initiatives to eradicate the issues related to electronics products affecting the environment • To nurture photonic technologies relevant in IT and optical communication as well as develop technologies in the 				<ul style="list-style-type: none"> • To successfully complete the ongoing projects on, Piezoelectric multilayer actuator, Carbon Aerogel & Aerocapacitor, EMI Shielding by Nano materials, organic based photovoltaic solar cells, Solar cells fabrication by CBD technique, National Photonics Fellowship, Optical isolators, UV LED Development, Wave-Front Sensors Development, Dev. of Aprons, Glass & Curtains 	<ul style="list-style-type: none"> • To develop super capacitor, Piezo-elctric Multilayer Actuator, broadband EMI Shielding, photovoltaic solar cells. Flexible Transistors, LEDs, Optical Sensors and Isolators 	Dec 2014	Metals from PCBs project started <ul style="list-style-type: none"> • Piezoelectric multilayer actuator, Carbon Aerogel & Aerocapacitor, EMI Shielding by Nano materials, Photonic research fellowship, blue and white OLEDs, lead free X-ray absorbing materials, optical isolators using QD based photonic glass, distributed strain & temperature sensing, projects successfully completed and Wave-Front Sensors Development, Organic Film Transistors will be completed upto march 2015.

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I	II	III	IV	V	VI	VII	VIII	IX	X
		broader application areas of Photonics through sponsored R & D projects				from Lead-Free X-ray absorbing materials, Organic Film Transistors,			
						<ul style="list-style-type: none"> To monitor the progress of on-going projects on Sustainability & upgradation of (RoHS) lab, FBG sensor for railway pantograph, Thulium doped Laser for Medical use, Photovoltaic Devices, Graphene supercapacitors, Lithium-ion cell, QD based Solar cells, thermal sensor monitoring for early detection and screening of breast cancer, Photoconducting Paste for Thick Film. 	<ul style="list-style-type: none"> To develop E-waste recycling technology for PCB, green energy generation, Thermistors and Laser technology for medical application, Sensors for Railway applications etc. 	March 2015	<ul style="list-style-type: none"> The on-going project Polymer based sensors, organic film transistors will be completed upto march 2015 and other on-going project are running successfully.

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I	II	III	IV	V	VI	VII	VIII	IX	X
	Centre for Materials for Electronics Technology (C-MET)	To support R & D projects for the development of Electronic Materials				<ul style="list-style-type: none"> To continue the core programme in the following areas: Integrated Electronics & 3D Nano-scale Packaging Nano scale Materials and Composites for Myriad Applications Ultra High Purity Materials (Metals, Alloys & Refractory Materials) and Compound Semiconductors E-waste management NABL accredited facilities Materials for Renewable Energy Actuators and Sensors 	<ul style="list-style-type: none"> Process for Integrated Glass-Ceramic Packaging Generation of Nano-powders, Nano composite & Quantum dots of metals/semiconductors/ for Electronics Technology and allied applications Process technology /Pilot plant scale production of ultrapure metals Process for renewable energy material Process/techno 	December 2014	<ul style="list-style-type: none"> Developed LTCC integrable oxygen conducting ionic conductor material for integration of Solid Oxide Fuel Cells (SOFC) in LTCC structures Developed Low-k dielectric material for LTCC with loss factor in the range of 10^{-4} to 10^{-5}. Fabricated cryocooler devices with integrated thermistor for temperature measurements. The devices are capable of achieving temperature difference up to 45°C. LTCC tapes fabricated using indigenous materials and testing for use for general purpose applications is under way. Delivered first batch of LTCC packages for specific thin film devices. Delivered Igniter and g-switch substrate and g-switch package samples Demonstrated test packages with buried microfluidic

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			Non-Plan	Plan Budget	Comp IEBR				
I	II	III	IV	V	VI	VII	VIII	IX	X
							logy for sensors and actuators		channels. <ul style="list-style-type: none"> • Developed LTCC silver paste which is compatible with imported LTCC tapes • 2 g scale green (lead/cadmium free) piezoresistive compositions based on RuO₂ and Bi₂Ru₂O₇ were developed for steel and alumina substrate with very good gauge factor. • Developed Photoimageable compositions with very good photoconducting properties. • Microwave synthesis process for preparation of CdS, CdSe, TiO₂, ZnO etc. • Developed high dielectric microwave substrate with ultra low loss tangent which can miniaturize microwave circuits by 31% • Developed CdS and CdSe doped glass nano composites based photocatalysts for H₂S splitting using natural sunlight • Tested Bi₂S₃ doped glass nano composite for magneto-optic current sensor

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I	II	III	IV	V	VI	VII	VIII	IX	X
									applications <ul style="list-style-type: none"> • Performed large scale trials (3kg) for Q-semiconductor doped glass nano composites • Gloves and Curtain were fabricated using formulation of BaBi₂S₃ powder and certification for the prototype apron from AERB, Mumbai is in process • Optimized nano aluminium powder preparation by thermal plasma by varying process parameters and obtained the powder at the rate of 50g/hr. • Delivered 6H and 4H SiC single crystals of 2" dia as per deliverables of the project. • Phase-II project proposal for 6H and 4H SiC single crystals (2" dia) for higher quantity with a total outlay of Rs. 1163 lakhs submitted to DRDO. • Demonstration trials for full fledged (10kg batch) operation of Hf sponge plant under progress

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I	II	III	IV	V	VI	VII	VIII	IX	X
									<ul style="list-style-type: none"> Experiments for preparing high purity Gallium and Germanium was prepared by resistive zone refining Up-scaling trials were conducted on ultra high purity gallium and analysis was done using GDMS from NRC, Canada E-waste: MOU signed with KBITS (Karnataka), specification for characterization equipment have been frozen and process equipment is under progress. MOU between CPCB and C-MET is in advanced stages for certification of all electronic equipment. Trial runs of Hydrogen Sulphide splitting in presence of natural sunlight using CdIn₂S₄ and ZnIn₂S₄ have been completed and optimization is in progress. CdS nano crystals used for H₂S splitting provided 4m.moles /hr/g H₂ generation of glass

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I	II	III	IV	V	VI	VII	VIII	IX	X
									composite containing 0.75% CdS <ul style="list-style-type: none"> • Proc. of eqpts. In progress & prepared gel composition in 1 kg batch • Proc. of eqpts. In progress & prepared gel composition in 1 kg batch • Prepared Graphene super capacitors of ESR upto 1 Ω • Developed graphene coated PVDF films • 12 numbers of ring type ML actuators delivered to LEOS, ISRO after successful testing • System level testing of PZT rings for the underwater SONAR transducers have been completed successfully at NPOL, Cochin • Initiated development of thermistor composition for radiosonde applications • Made thermal sensor probes for breast cancer detection • Transfer of technology to

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I	II	III	IV	V	VI	VII	VIII	IX	X
									CEL for PZT powder preparation is being concluded.
14.	R&D in Medical Electronics & Health Informatics	To promote development of medical electronic equipment, rehabilitation devices and Health Informatics Systems		10.00		<p>Completion of benchmarking of Batch Fabrication Facility for Linear Accelerator (LINAC) machines at SAMEER, Mumbai</p> <p>Deployment of three remaining Linear Accelerator machines for cancer treatment.</p> <p>Initiation of new R&D projects in the area of Medical Electronics & Health Informatics</p>	<p>Facility for production of LINAC machines will become operational</p> <p>Creation of facility for cancer treatment at three hospitals</p> <p>Launching of new projects in identified thrust areas</p>	<p>December 2014</p> <p>December 2014</p> <p>March 2015</p>	<p>Facility for production of LINAC tubes for Linac machines has been established. The benchmarking of the facility by third party is in progress.</p> <p>The installation of second Linac machine at Amravati Hospital, Maharashtra is in progress. The remaining two Linac machines are also ready and these will be dispatched when the sites for installation are ready alongwith the AERB clearance for the hospitals.</p> <p>The following new projects have been initiated during the current year:</p> <ul style="list-style-type: none"> • Diabetic Retinopathy Identification Software

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I	II	III	IV	V	VI	VII	VIII	IX	X
									for Timely Intervention- <ul style="list-style-type: none"> • Biomedical Signal Analyzer for Seizure Prediction. • Set-up of Medical Electronics Laboratory at National Institute of Electronics & Information Technology (NIELIT) Shillong (Meghalaya). • Setting-up of Medical Electronics Laboratory at National Institute of Electronics & Information Technology (NIELIT), Kohima (Nagaland) • Leukoanalyser, an automated tool for minimal residual disease estimation (MRD) in B-Lineage acute lymphoblastic leukemia • Design and Development of 1.5 Tesla Magnetic

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I	II	III	IV	V	VI	VII	VIII	IX	X
									Resonance Imaging (MRI) System for Medical Imaging- <ul style="list-style-type: none"> • ICT Centre of Excellence on Tactile Graphics:
15.	Centre for Development of Advanced Computing (C-DAC)	High Performance Computing (HPC) and Collaborative Computing	3.00	148.00	254.00	<ul style="list-style-type: none"> • Preparation for Petascale Computing • HPC Applications • Power Optimization solutions for High Performance Computing. 	<ul style="list-style-type: none"> • R&D towards Architecture of Petascale Computing • Advance research in domains of Science and Engineering with the use of PARAM systems as follows: <ul style="list-style-type: none"> ▪ Atmospheric and Environmental Science ▪ Material and Structural Engineering ▪ Computational Fluid Dynamics 	<p>March 2015</p> <p>March 2015</p> <p>March 2015</p>	<p>EFC meeting for National Supercomputing Mission conducted on August 28, 2014. Cabinet note is under processing.</p> <p>PARAM System at NPSF being extensively used.</p> <p>Ported several HPC applications on Param Yuva II for Science and Engineering domains.</p> <ul style="list-style-type: none"> • 8-channel board version 2 has been fabricated and Smart plug casing has been designed • Analysis of sensor data collected from 5 server racks at Pune using MatLab, MySQL for Optimized

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I	II	III	IV	V	VI	VII	VIII	IX	X
							<ul style="list-style-type: none"> ▪ Geophysical ▪ Bio-informatics • Power aware scheduling; power profile of HPC systems; Power electronics for HPC 		Cooling
		Garuda				<ul style="list-style-type: none"> • Scientific Cloud Framework • Garuda 2.0 next phase of Grid project 	<ul style="list-style-type: none"> • A framework for scientific cloud computing • Enhanced Garuda resources, cloud integration, etc. 	<p align="center">March 2015</p> <p align="center">2015</p>	<p>For offering HPC services on cloud infrastructure, C-DAC is working towards creation of scientific cloud named SuMegha and a cloud vault for storage as a service.</p> <p>Garuda Phase-II proposal prepared and submitted to DeitY.</p>
		Multilingual Computing				<ul style="list-style-type: none"> • Speech to Speech Machine Translation System 	<ul style="list-style-type: none"> • Development of Speech to Speech translation system among English and Indian languages for limited Domain 	March 2016	<p>Completed implementation of Phrase Marker in pre-processing Module, enhancement in corpus processing tool and POS rules in the system.</p> <p>Enhancement in web version, Lexicon building for Hindi to English System and Enhancement in Morph</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
						<ul style="list-style-type: none"> Optical Character Recognition (OCR) Internationalized Domain Names (IDN) 	<ul style="list-style-type: none"> Development and deployment of new emerging tools and capabilities Localization of domain names in Indian languages 	<p align="center">March 2015</p> <p align="center">March 2015</p>	<p>Generation Module is in progress.</p> <p>Completed integration of Online Character Recognition System (OLCR) with Hindi and Tamil scripts and testing of the same.</p> <p>Shri. Ravi Shankar Prasad, Honorable Minister for Communications and IT, Government of India, launched '.bharat' domain names on August 27, 2014 in Devanagari script for various Indian languages including Hindi, Bodo, Dogri, Maithili, Marathi, Konkani, Nepali and Sindhi.</p>
		Professional Electronics				<ul style="list-style-type: none"> Electronics for Agriculture and Environment 	<ul style="list-style-type: none"> Technologies for electronic Nose-Tongue-Vision for various agricultural commodities 	March 2015	<ul style="list-style-type: none"> E-Nose system for Pulp and Paper Industries deployed at: <ul style="list-style-type: none"> Tamil Nadu Newsprint and Papers Limited, Tamil Nadu Mysore Paper Mill, Bhadravati, Karnataka International Paper Mill, Rajahmundry, Andhra Pradesh

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I	II	III	IV	V	VI	VII	VIII	IX	X
						<ul style="list-style-type: none"> Intelligent Transportation System 	<ul style="list-style-type: none"> Wireless Traffic Control system (WiTrac) CoSiCost Real-time Traffic Counting and Monitoring System Intelligent Parking Lot Management System Red Light Violation Detection System (iRIDS) 	2015	<ul style="list-style-type: none"> Developed and deployed handheld E-Nose and E-Tongue system at various agencies. ToT done for 8 partners for WiTrac CoSiCost – Developed Algorithm for heterogeneous traffic at junctions in collaboration with IIT Bombay Real-time Traffic Counting and Monitoring System – ToT is in process Developed Intelligent Parking Lot Management System Red Light Violation Detection System - ToT is in process
		ICT for Social Development				<ul style="list-style-type: none"> Mobile Computing 	<ul style="list-style-type: none"> Development of applications, tools and middleware, for service delivery gateway through mobile computing to 	March 2015	<ul style="list-style-type: none"> ARC lib AR Framework has been packaged for technology transfer Completed development of Hindi language SDK for Android

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						<ul style="list-style-type: none"> India Development Gateway (InDG) Information Security Education and Awareness (ISEA) Programme - Phase - II 	<ul style="list-style-type: none"> reach masses Development of multilingual collaborative content creation platform National Awareness Campaign on Information Security for the Information Security Education & Awareness 	<p align="center">2015</p> <p align="center">2019</p>	<p>Vikaspediahttp://www.vikaspedia.in/, a multilingual collaborative content creation platform to provide e-knowledge products and services for underserved communities, was made available in ten languages.</p> <p>As a part of Information Security Education & Awareness (ISEA) initiative, overall 637 workshops were organized across the country covering about 22,166 Teachers/Parents/CSC/NGO's etc. and about 60,554 School/Engineering/Degree college students.</p>
		Trust, Protection, Security and Detection Technologies				<ul style="list-style-type: none"> Biometric solution for Aadhaar Cloud Security Framework 	<ul style="list-style-type: none"> Fingerprint matching solution for UIDAI usage Solution to address common security concerns in cloud 	<p align="center">March 2015</p> <p align="center">March 2015</p>	<p>In Progress</p> <p>Data Encryption & Protection, Isolation Framework, Cloud DDOS Detection/ Mitigation and Scalable Load Balancer modules developed.</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
						<ul style="list-style-type: none"> Unified Threat Management Framework National e-authentication framework 	<ul style="list-style-type: none"> Integrates the multitude of tools involved in Security Management 	<p>March 2015</p> <p>March 2015</p>	<p>Integrated testing of Software UTM is being carried out; Flow based hardware solution for anomaly detection is being tested</p> <p>e-Pramaan website is operational.</p>
		Ubiquitous Computing				<ul style="list-style-type: none"> Wireless Sensing Network Perception Engineering for Medical, Agricultural, Environmental and Social Applications Development of high 	<ul style="list-style-type: none"> Body Area Networks and application in healthcare; Wireless sensor network platform and applications 	<p>March 2015</p> <p>March 2015</p>	<p>Development of Destination (OD) for Urban Transportation Enhancements ROUTE (Transportation), RS-WSN, 6LoWPAN (Agriculture), U-SEHAT (Health), Distributed Context aware framework, Human activity recognition using video sequences is in progress.</p> <p>Development of Brain Computer Interface, Facial Expression and Bio-Sensor is in progress.</p> <p>1. Testing of PCI e-Packet</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
						speed traffic generator		2015	DMA along with 10GbE MAC completed 2. Completed development of I2C and MDIO RTL codes to read data from SFP+ transceiver module and PCS/PMA, respectively 3. Implementation of System recovery module and Integration into existing Unicast tool has been completed
		Education Technology				<ul style="list-style-type: none"> Development of next generation e-learning and m-learning tools and technologies Use of augmented reality technology for m-learning 	<ul style="list-style-type: none"> Online labs for schools Develop AR book and AR board application 	March 2015 2014	88 experiments under Online Labs completed and are available online (olabs.edu.in); 30 more experiments are under development. Completed
17.	Controller of Certifying Authorities (CCA)	To promote use of electronic/ digital signatures for e-governance and e-commerce	-	8.00	-	Promotion of use of Electronic/ Digital Signature Certificates	Enhanced use of electronic/ digital signatures for e-governance and e-commerce, banking applications etc.	Continuing process	Major Activities & Achievements 1. The licence of nCode has been renewed to operate as Certifying Authority. 2. The Annual audit of the

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I	II	III	IV	V	VI	VII	VIII	IX	X
		applications Awareness generation and Training programs in Electronic Signatures					Training facilities, modules and content development		<p>Certifying Authorities was conducted by the CCA's empanelled auditor as per the requirements of the Information Technology Act. The annual audit report and half yearly audit reports of all the Certifying Authorities were reviewed. The Annual audit of RCAI primary & DR sites were also conducted by CCA's empanelled auditor.</p> <p>3. In addition to the regular audits, special audits of Certifying Authorities for ensuring compliance in the issuance process on various subjects like document verification & technical issuance process were also conducted this year.</p> <p>4. Six Certifying Authorities are operational and are providing the services as per the provisions of the Information Technology Act, 2000. The concerns</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
									<p>of the CAs were addressed, as well as the concerns of users of Digital Signature Certificates.</p> <p>5. The technical infrastructure comprising the Root Certifying Authority of India (RCAI) and the web site cca.gov.in were operated to ensure trust and authentication through Digital Signatures. Regular CRLs are being generated & published every month for RCAI certificate(s).</p> <p>6. New panel of Law firm/Advocates has been created for CCA office to take legal opinion/advice from legal experts on techno legal issues.</p> <p>7. Technical infrastructure hardware and software including physical security device like Surveillance Camera, DVR, Access</p>

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									<p>Control System (Biometric), Fire extinguisher, smoke/fire & water detectors etc. installed and upgraded at DR site. The Strong Room & its premise at primary site were renovated.</p> <p>8. State of the art Hardware Security Modules (HSMs) were procured installed and configured at RCAI Primary & DR sites by updating CA application & SQL server database and existing RCAI keys migration were carried out from existing HSM to new HSM successfully.</p> <p>9. Project sanctioned to CDAC to conduct training, workshop & Seminars for creating awareness on Digital Signature & PKI throughout the country. Programme conducted at Bangalore, Hyderabad, Chennai & Delhi for users</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
									<p>from Air Cargo, Banking, Income Tax etc. and common masses.</p> <p>10. A series of newspaper advertisements for creating awareness about Digital Signatures and associated dos-and-donts have been published.</p> <p>11. Certificate repository for compliance checking and statistical purposes is being maintained.</p> <p>12. Initiatives taken to launch Time Stamping Service (TSS) by Certifying Authorities (CAs) on the occasion of Good Governance Day celebrated by DeitY, M/o C&IT on 25th December, 2014. Online time stamp service is now available and running by CAs.</p> <p>13. Initiated process to identify mechanism for mobile</p>

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I	II	III	IV	V	VI	VII	VIII	IX	X
									<p>based digital certificate storing on crypto SIM and SD card using mobile device based on Elliptic Curve Cryptography (ECC) algorithm.</p> <p>14. Initiated proposals on issuance of Digital Signature Certificate (DSC) using Aadhaar eKYC and also eSign proposal for online creation & digital signing of transactions based on Aadhaar eKYC authentication.</p> <p>15. An International Conference of 5-days on “24th UN/CEFACT forum meeting/workshop” was organised by CCA, DeitY in association with FICCI during 27-31st October, 2014 at New Delhi. Also, during this period one day international workshop on “Security & Authentication to Stimulate Paperless</p>

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									<p>Trade/Governance” was organised. The Workshop & Conference were attended by participants from countries all over the Globe.</p> <p>16. Implementation of Online Certificate Status Protocol (OCSP) & whitelist based validation services was initiated by CAs & some of the CAs have started providing the service.</p> <p>17. MoU signed between Korea & CCA to recognise foreign certifying authority for accepting digital certificates of each other was followed up for further action.</p> <p>18. Study conducted through consultants on Certificate pricing, Common Criteria (CC) standards, foreigner’s verification/apostolisation, End-entity (EE) signatures such as XML, CMS, ECC</p>

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									<p>and Long term archival etc.</p> <p>19. Agreement finalised for signing with Adobe for pre-installation of RCAI Root certificate & also efforts being made with Mozilla for inclusion of Root certificate.</p> <p>20. Work flow being developed for digital signing of documents stored in the Digital Locker using eSign through online signing as a part of Digital India.</p> <p>21. The number of Digital Signature Certificates issued by CAs grew to more than 93, 00,000 by December 2014.</p>

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17.	SAMEER	Research & Development activities in the areas of its expertise	3.00	50.00	45.00	<p><u>R&D in core areas:</u></p> <p><u>Research leading to expertise in:</u></p> <p>Marx technology based 200 KV UWB Impulse generators for HPEM testing</p>	Technology development for Impulse generators for HPEM testing	Design of 10 stages Marx generator finalized. Prototype testing of 3 terminal HV spark gap is being done.	
						SAR Digital Image Processor	SAR digital image processing technology development	Design of system for mission mode configuration is being carried out	
						Two axis Stabilization system	Technology development for Two axis stabilization system	The hardware and software is developed. Validation is in progress.	
						47 GHZ MMIC based Frequency Multiplier	Technology development for 47 GHz MMIC based frequency multiplier	Design and optimization of MMIC circuit is being done at schematic level using 0.15µm MMIC design kit (PH15) from UMS, France. Once the optimization is over,	

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								the whole circuit will be sent for fabrication at UMS foundry.	
						Direct writing of optical devices using femtosecond laser	Development of Low loss passive optical waveguide components	Optical waveguide structure written in erbium doped glass for optical amplifier. Device is fiber pigtailed for amplification studies. Waveguide structure is written in lithium niobate.	
						Antennas for special applications	Survey & Study of Antenna types for special applications	Three types of antennas were studied, simulated and tested.	
						Wide band low profile VHF/UHF antennas	Design and development of wide band extremely low profile VHF and UHF antennas.	Antenna has been developed.	
						Algorithms development for broadband data link	Base band module and Algorithms implementation	Design simulation and algorithm verification for baseband transmitter at 70 MHz has been completed;	

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								Simulation exercise for the baseband CDMA is in progress.	
						Four/Eight arm Spiral direction finding network	Design and development	Antenna has been designed and fabricated. Characterisation is under progress.	
						Development of Direct phase modulators (DPM) and PLDRO	Proto type models meeting electrical and environmental performance	A prototype wide angle (120 Degrees) varactor based direct phase shifter in S-Band has been fabricated; DC characterization has been completed; packaging the PCB and characterizing the phase modulation are in progress	
						High Power Amplifier at X band	High Power amplifiers (up to 80 watt peak) for point to point communication systems	Design and development of the high power amplifier has been done. Testing is in progress.	
						W-band components development : Frequency Tripler,	Engineering prototype of Tripler, attenuator,	W-band attenuator has been optimized and fabricated.	

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						Attenuator, Low Noise Amplifier	LNA.	Design of tripler circuit with microstrip transmission line configuration completed. Various passive parts of the circuits were simulated in EM simulator HFSS. Fabrication of circuit and mechanical mount for first prototype tripler was done.	
						Synthetic Aperture Radar at X-band	Synthetic Aperture Radar Imaging Technology using FMCW principles at X-band.	Hardware has been developed and algorithms for image formation and processing also developed. The Radar was calibrated in anechoic chamber.	
						Terahertz technology Development for Imaging and spectroscopy	Technology for THz based Spectroscopic and Imaging systems	THz camera and femtosecond laser purchased. Order placed for motion stages. Parabolic mirrors fabricated. THz lab has been	

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								setup. Work on THz imaging and spectroscopy in progress.	
						Development of high resolution imaging system using spectral domain-optical coherence tomography(SD-OCT)	Technology for Imaging using Optical Coherence Tomography	Benchmark experimental lab setup put in place to acquire spectrograms of different samples. A-scans of samples with single reflecting layer have been obtained. Simulation model for OCT has been developed. Image Processing algorithms are being developed and validated using some raw image obtained from other sources.	
						High power solid state Amplifiers	Technology for replacing Tube based amplifiers with Solid state Power Amplifiers	Two stages of SSA at 1.3 GHz have been developed and tested. Circuits are designed for 300 W out power, which will be power combined to finally obtain 3 kW.	

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						Gyrotron Sub system Development	Technology for key subsystems of the Gyrotron system	Experimental porous tungsten ring has been made by PM process. Cathode heater sleeve has been made out of molybdenum. Other parts for MIG are ready. Quasi Optical Mode Converter (QOMC) has been designed.	
						Development of Vacuum assisted RF Dryer	R&D on vacuum assisted RF dryer	Vacuum system has been developed and tested at vendor's site. The control system and RF Generation box are ready.	
						Millimeter-wave Radiometer	R&D on Radiometer	Procurement of V-band components completed. Major part of cRIO based control system development completed. Development of inversion technique	

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								using neural network is in progress.	
						Active Aperture for Wind Profiler	R&D on active aperture	A 4x4 array with optimised design has been installed. After obtaining the frequency clearance all these antennas are connected with individual TR module and radiated. All the digital systems have been integrated. Now digital receiver is fine tuned to analyze atmospheric returns.	
						Development of GaAs based Quantum infrared Detectors in the transmission window of 8-12 microns	Technology for Quantum Infrared detectors	Single layer and multi-layers InAs/GaAs QDs have been successfully fabricated and characterized. QDs have been characterized by PL, SEM, XRD and AFM.	
						Growth of III-V Multi-Junctions by	Technology for Growth of Multi	Growth of InGaAs/GaAs	

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						Molecular Beam Epitaxy	Junction using MBE	heterojunctions and Quantum Wells, characterization by High Resolution X-Ray Diffraction (HR-XRD) done. Rapid Thermal Anneal (RTA) of the samples at different temperatures done.	
						W band Resonant Cavity pulsed power combiner	R&D on millimeter wave power combiner	Duo-diode power combiner with diodes has been designed, fabricated, tested and optimised by varying various parameters. Combined output power is satisfactory.	
						Development and commissioning of SODAR in Assam University, Silchar	One Unit of Doppler SODAR to be developed and commissioned at Assam University, Silchar.	Wiring and testing of Electronics circuits completed. Integration of the Electronic system is completed. Overall System Integration including Acoustic Enclosure is in Progress System is planned to be installed at Assam	North-East Project

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								University.	
						Microwave Technology based Tea Processing system with Gauhati University	Deployment for tea drying. 5KW Microwave heating system with applicator	Design and component procurement has been completed. Fabrication work is in progress.	North-East Project
						Microwave Technology based Tea Processing system with Tezpur University	Deployment for tea drying. 5KW Microwave heating system with applicator.	Design work is completed. Fabrication is in progress.	North-East Project
						Digital Ionosonde Radar with Dibrugarh University, Assam	Design, fabrication and commissioning of Digital Ionosonde Radar at Dibrugarh University.	Receiver antenna fabricated. Real time data acquisition software developed. Algorithms to compute drift has been completed	North-East Project
						Application of RF technology for processing of agro products with Assam University ,Silchar	Deployment for processing of agro products.	System has been developed, fabricated, assembled & tested for its specifications.	North-East Project
						Development of thermography infrastructure facility in Tripura University- Phase I	Image processing laboratory Infrastructure for development of Thermograph. Application in the	Comprehensive study on Visual imagery in uncontrolled environment is completed. Two M.tech students	North-East Project

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I	II	III	IV	V	VI	VII	VIII	IX	X
							field of security system and navigation. Project Training of few final year M.Tech students.	associated with the project and one Project assistant. IR Camera procurement done.	
						Training Program in NE Universities	To provide training and exposure of high tech fields to Teachers, Researchers and students to improve awareness of technical advancements, which in turn will lead to improvement of the level of applied teaching in NE institutes/universities.	Workshops have been conducted in following Universities: Gauhati, Tezpur, Assam(Silchar) and NEHU Shillong	North-East Project
						Development of lightning detection network for NE in association with IMD	To develop lightning detection network	System design in Progress	North-East Project
						Application of Innovative Dielectric property based technology for	To develop dielectric property based agro quality measurement	1. Development and fabrication of RF heating system has been completed.	North-East Project

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						processing and quality measurement of agro products	technology	Assembly of the system is in progress. 2. System Design of Dielectric based quality parameters measurement for fruit has been initiated	
		To engage in product development driven by technology and user requirement				Development of Dual Photon and Multiple electron energy medical LINAC	Development of a 15 MV medical LINAC with dual Photon and multiple electron energies for Cancer therapy.	Brazing of linac tube stack and water cooling system. Experimental verification of beam bending system with ion source. Population of gantry. Fabrication of all PCB's and housing for control console. Testing and calibration of power divider in progress. Fabrication and testing of Optical distance indicator.	
						6 MV Medical LINAC based integrated Oncology system under Jay Vigyan Mission (Phase II)	Development of 4 Units of LINAC system and their deployment in hospitals	First LINAC unit is installed and operational for cancer patient treatment at IIHNO, Indore. The second	

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								unit has been sent to Cancer Foundation Hospital, Amravati and installation work will start shortly. In third and fourth Linac units, non radiation testing viz. High Voltage, Microwave and Mechanical movements testing have been completed.	
						Stratospheric Troposphere (ST) Radar	A high resolution VHF Stratosphere-Troposphere (ST) radar with state of technology of active aperture to be installed at Guwahati University for North East region	Design and development work has been completed. Batch fabrication of antennas has been completed. Batch fabrication of TR module is in progress.	
						Multi Leaf Collimator (MLC) for Dual Energy LINAC	MLC system for Dual Energy LINAC system	The mechanical design and fabrication of various hardware have been completed. The design and fabrications of	

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								various PCB including motherboard has been completed. The mechanical assembly of complete system with Stainless Leaves has been completed. Control Software including front end GUI has been completed and tested. Assembly of system with Tungsten leaves alongwith complete electronics is in progress.	
						Development of Broadband wireless communication system using Terahertz Technology	To develop broadband wireless communication system using THz technology.	DFB lasers, Goley cell, optical modulator and other components procured. Order placed for THz source and detectors. THz lab has been setup. The optical frequency comb generation simulation work was carried out	

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								using phase modulation approach. Process to buy OFCG initiated. Clean room equipments and facility revived to fabricate optical splitter/ modulator in the lab.	
						Secured two way Communication system	Technology and one prototype of complete two way communication system.	RF design and prototype completed. Tender for baseband sub system under evaluation	
						Design & Development of Coherent Transmitter Receiver at W band	Technology development of Coherent Transmitter Receiver at W band and deliver ten units.	Five units have been delivered. Four more units of Tx/Rx have been assembled and tested successfully.	
						Development of Fire Control System (FCS) for MDL, GRSE and Fincanteri	Design and development of Fire Control System (FCS) for MDL, GRSE and Fincanteri- total 3 units.	HAT Trials conducted on FCS-GRSE in April/May 2014, at GRSE, Kolkata ATP conducted on FCS-MDL during March/April 2014 at SAMEER, Chennai	

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								FAT testing conducted on FCS-MDL during May/June 2014 at MTPF, Ambarnath	
						S/Ka band wrap around conformal antenna	Development of wrap around antenna for customised application.	Ka-band (4 pcs), S-band (1 pc for LP and CP), C-band (1 pc for CP) antennas with 20mm thick teflon cover have been fabricated. 4 numbers of Ka-band squinted beam antennas (sidewall in azimuth plane) have been simulated for wrap around configuration.	
						Ka band transmitter	Development of Ka band transmitter	The design, simulation, iterative fabrication and final testing for various sub-systems have been completed. Design of power supply modules and bias cards completed. The integration of the 2-Channel	

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								Laboratory prototype has been done and final testing has been completed.	
						S/Ka band tracking antenna	Antenna development	The antenna consists of a cassegrain configuration with one main reflector and one FSS (Frequency Selective Surface) subreflector with mono-pulse feed in both S band and Ka band. The mono-pulse feed for Ka band and S band has been designed and under fabrication. The main reflector has been fabricated and inspected.	
						Ka band reflector antenna	Antenna development	A Ka band prime focus reflector antenna has been designed, developed and handed over to the user agency. The antenna is required for ground testing of Ka band telemetry	

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								system. The feed of the antenna has been designed in such a way, that it can give both wide and narrow beam.	
						Radio Proximity Fuse Antenna at Ku band.	Design and development of Radio Proximity fuse antennas at Ku band.	Flight units delivered after ATP. Environmental testing pending	
						S/Ka band telemetry receiver	Technology development for S/Ka band telemetry receiver	Subsystem specifications of the receiver have been finalized. PCB drawings have been done for different modules (LNA, Mixer, Ku-band and S-band PLL, Power supply, AGC, IF amplifier, IF filter, mode selection switch, Ref. oscillator) and they are in the process of fabrication. Integration scheme (module placement, panel mounting,	

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								receiver box dimension etc.) of the whole receiver has been finalized.	
						Preliminary Design and Simulation of Strapped Down RF Seeker for Anti-Ship application	Simulation of Strapped Down RF Seeker	A new form of RADAR namely spread spectrum digital beam-forming RADAR will be used to develop the seeker system. The design and simulation of antenna system, transmitter and receiver along with the baseband and RADAR waveform study has been carried out under this project. A new coding scheme has also evolved in the process.	
						Two RF Channel CDMA Receiver	RF Channel CDMA receiver development	RF prototype ready for integration. Baseband prototype development in progress.	
						Spread spectrum transmitter	Product development and	RF Subsystem PCB layout has been	

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							delivery	completed; mechanical hardware is ready; PCB fabrication of the baseband is in progress; system will be ready for QT evaluation during March 2015.	
						Design & Dev of IR laser absorption based sensor to detect TCA	Develop lab prototype for the detection of toxic chemical present using IR Laser	Majority of consumables procured, components testing completed (except few). Miniaturization of bench-top instruments is in progress. Automation of Laser control instruments completed using Labview. Lab prototype is developed for CO and NO gas detection. Calibration using known concentration is being done.	
						Fire control system for	Development of	Hardware sub-	

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						Fincanteri II	fire control system	systems are ready and being tested. Control Consoles Wiring is being done. Interface cable harness being done. QAP, BOM and ATP document prepared and submitted for approval SQAP documents are prepared for approval. Preparation of Technical, User and other manuals. Software development for FCS-FN. Algorithm implementation and GUI modifications carried out. Integrated testing of hardware modules. Pre-qualification testing and documentation.	
						High power transmitter at 75 MHz, 30KW	Development of High power transmitter at 75 MHz,	Development work is completed. Testing and installation work is pending	

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						Development of Hand Held Data Logger (HHDL) for acquiring and processing Surface Observations at Synoptic Intervals	Hand held Data Logger for data acquisition, processing and messaging using GSM network.	Successfully completed commission of synoptic Observatory automation systems at IMD's 50 synoptic laboratories under Mumbai and Nagpur RMC covering the state of Maharashtra, Gujarat, Madhya Pradesh, Goa, and Chhattisgarh. Currently training program is conducted at Chennai for IMD's 50 synoptic laboratories under four Southern states of India including Lakshadweep islands.	
						Development of 403 MHz & 1680 MHz Radiosonde and Receiver Systems	Development of 403 MHz (15 Numbers) and 1680 MHz (5 Numbers) Radiosonde and Receiver Systems.	Five sets of Ground based 1680 MHz Radiosonde Receivers delivered to IMD. IMD has taken up the production of 1680 MHz Radiosonde	

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								systems. SAMEER has handed over new BOM and Gerber files of New Data Integrator and modified 1680 MHz transmitter card to IMD. Few test flights were also conducted at New Delhi using these 1680 MHz receivers.	
						Development of Ka Band Polarimetric Doppler Radar for Cloud Profiling	R&D on polarimetric Doppler radar and delivery to MOES	Development of Pulse and LFM signal generation using DDS completed. Pulse compression algorithm using NLFM completed. Design of receiver sub system completed. Design, completion of the schematic and layout of Bite and Telemetry circuit based on spartan6 FPGA. PLL board layout was checked	

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								Algorithm development of hydrometeor classification and cloud classification in progress. Display software development in progress	
		To provide test and measurement services and to undertake training and consultancy in areas of core competence.				EMI/EMC & Consultancy services Conduct training and consultancy and guiding students to carry out projects for their engineering degrees.	Timeline: Continuous activity Analyze the product design for its EMC and make test plan for its compliance to international standard Continuing activity	729 Test and measurement assignments in EMI/EMC and Calibration have been completed.	
		Strengthening institutional infrastructure to support ongoing programmes				Construction of Residential quarters for Scientists at Navi Mumbai. Construction of Scientist Hostel building at SAMEER, Powai campus.	Establishment of infrastructures with timeline of 20-24 months	Construction of Residential quarters for Scientists, contract awarded to CPWD	

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Sl. No.	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2014-15 (Rupees in crore)			Quantifiable Deliverables / Physical Outputs	Projected Outcomes	Processes/ Timelines	Status as on 31.12.2014
			Non-Plan	Plan Budget	Comp IEBR				
I	II	III	IV	V	VI	VII	VIII	IX	X
						Construction of Utility building at SAMEER, Kharghar Campus and Site development.		Construction of Scientist Hostel building, contract awarded to HSCL.	
								Construction of Utility building at Kharghar, New Mumbai, contract given to HSCL. Work nearing completion	
		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.	Timeline: Continuous activity.	A number of Scientists were deputed to attend workshop, conference and seminar. A number of Invited talks/ papers presented in conferences/worksh ops	
18.	Promotion of IT/ITeS Industry (Formerly	STPI	-	10.00	226.20				As on 31.12.2014, over 3,300 units are operating under STPI Scheme. Out of these, majority of the STP units are small and

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I	II	III	IV	V	VI	VII	VIII	IX	X
	STPI and EHTP)								medium enterprises (SMEs), which contribute about 15% in the total exports of IT-ITES sector from the country. The overall exports done by STPI registered IT/ITeS units increased from Rs. 2,51,497 Crore in 2012-13 to Rs. 2,73,313 Crore in 2013-14, an increase of 8.67 %. The bifurcation of 2013-14 exports is as follows: <ul style="list-style-type: none"> Exports from units availing services under STP scheme (under FTDR Act 1992) is Rs. 268743 Crore. Exports from units availing only Softex attestation services are Rs. 4570 Crore.
19.	NIELIT	• To create Human Resources in the area Information Electronics & Communication Technology (IECT) through	1.70	10.00	178.58	To produce quality professionals through Long Term & Short Term Courses in the Formal & Non-Formal Sector. (a) To conduct training for long term formal courses (M.Tech/	2225 candidates	2374 candidates	To boost skill development and employability

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			Non-Plan	Plan Budget	Comp IEBR				
I	II	III	IV	V	VI	VII	VIII	IX	X
		formal & non-formal courses.				<p>B.Tech/MCA/ BCA etc).</p> <p>(b) To conduct training for non-formal courses with duration of 1 year and above by NIELIT Centres (viz; O/A/B/C level course, Bio-informatics O/A level courses, Hardware courses O/A level, Multimedia O/A level etc.)</p> <p>(c) To conduct training for non-formal courses with duration of 1 year and above by NIELIT Accredited Institutes</p> <p>(d) To conduct training for non-formal courses</p>	<p>10256 candidates</p> <p>38,342 candidates</p> <p>67334 candidates</p>	<p>9892 candidates</p> <p>22,964 candidates</p> <p>38830 candidates</p>	

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I	II	III	IV	V	VI	VII	VIII	IX	X
						with duration of less than 1 year (other than CCC & BCC) (e) To conduct training for course on Computer Concepts (CCC) and Basic Computer Course (BCC)	869693 candidates	305406 Candidate	
		•				Expansions through Capacity Building Activities (a) To create standardized courses	35 in IT & Software and 30 in Electr. & Hardware (Total: 65 number of courses)	2 courses in CCC+ & ECC),1 course in Digital Marketing, and 9 courses in ESDM (Total: 12 number of courses)	New courses and new Centres/Institutes will help in proliferation of new technologies across the country and in remote locations

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			Non-Plan	Plan Budget	Comp IEBR				
I	II	III	IV	V	VI	VII	VIII	IX	X
						(b) Setting up of NIELIT Centres/ Extension Centres in the country including North Eastern Region (c) Accreditation for conduct of IT courses (d) Accreditation for conduct of Hardware/ Electronic courses (e) Facilitation to Agencies for conduct of Examination/ Evaluation/ Assessment	05 numbers (Ieh, Luglei, Senapati, Silchar, Jorhat) 97 Institutes 22 Institutes 2436 Institutes	02 number (Ranchi & Kokrajhar) 70 Institutes 14 Institutes 498 Institutes	
						Online Services for other Agencies (a) Online Assessment of candidates	3387 candidates	25460 candidates	

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			Non-Plan	Plan Budget	Comp IEBR				
I	II	III	IV	V	VI	VII	VIII	IX	X
						(b) Recruitment/ Departmental examination through online services	11 number of examination cycles	30 number of examination cycles	
						Internal & External Budgetary Resources (IEBR)			
						(a) To generate Internal Revenue	Rs. 13701.42 lakh	Rs. 10247.26 lakh	
						(b) To maximize External Budgetary Resources	Rs. 6695.14 lakh	Rs. 3099.01 lakh	