

**CHAPTER – IV**  
**REVIEW OF PAST PERFORMANCE (2012-13 – up to 31.03.2013)**

Sr. No.	Name of schemes/ Programmes	Objective/ Outcome	Outlay 2012-13 (Rupees in crore)			Quantifiable Deliverables /Physical Outputs	Projected Outcomes	Processes/ Timelines	Status as on 31.03.2013
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1	<b>Electronic Governance</b>	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 accessible to the common citizen in his/her locality, through efficient, transparent and	-	975.00  (Incl. 108.00 Cr for NER)	-	<b><u>State Data Centres (SDC)</u></b>  State Data Centre (SDC) is one of the three components of the core infrastructure of the National e-Governance Plan (NeGP). Under the SDC Scheme, it is proposed to establish Data Centres in all the States/UTs to consolidate services, applications and infrastructure in order to provide efficient electronic delivery of G2G, G2C and G2B services. These services can be rendered by the States through common service delivery	<ul style="list-style-type: none"> <li>• Operationalisation of SDCs</li> <li>• Utilization of more than 50% of the SDC Infrastructure</li> <li>• Make SDCs cloud enabled</li> </ul>		<ul style="list-style-type: none"> <li>• 19 SDCs have been declared Operational</li> <li>• The implementation of SDC is in progress in 4 States (Lakshadweep, Chhattisgarh, Jammu &amp; Kashmir, and Mizoram)</li> <li>• DCOs (Data Centre Operators) have been selected in 2 States (Jharkhand and Bihar). 2 States (Himachal Pradesh and Assam) are undergoing Bid process management for selection of a DCO and 3 States (Uttarakhand, Punjab, and Goa) are in the process of finalizing their SDC RFPs to initiate a competitive</li> </ul>

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		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 MMPs. The common program support components are aimed at creating the right governance and institutional mechanisms, core infrastructure,				platforms seamlessly supported by core connectivity infrastructure such as State Wide Area Network (SWAN) and Common Service Centre (CSC) connectivity extended up to village level. SDC would provide much functionality and some of the key functionalities are central repository of the state, secure data storage, online delivery of services, citizen information/services portal, state Intranet Portal, disaster recovery, remote management and			bid process. The UTs of Dadra & Nagar Haveli and Daman & Diu are in the process of finalizing their DPRs for DeitY's approval.  <ul style="list-style-type: none"> <li>• 9 States are utilizing more than 50% of the SDC Infrastructure</li> </ul> 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.

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		<p>policies &amp; standards and the necessary legal framework for adoption of e-Governance in the country. The plan is being implemented at the central, 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.</p>				<p>service integration etc. SDCs would also provide better operation &amp; management control and minimize overall cost of data management, IT resource management, deployment and other costs.</p>			
						<p><b><u>State Wide Area Networks (SWANs)</u></b></p> <p>Under SWAN project, it is envisaged to connect all the State Headquarters up to the Block level via District/ sub-Divisional Headquarters, in a</p>	<ul style="list-style-type: none"> <li>• To provide support to the States/UTs Governments in terms of implementing the Scheme.</li> <li>• To issue policy guidelines, advisories to</li> </ul>		<p>DeitY has been issuing policy guidelines, advisories to States/ UTs, for steering the process of deployment of SWAN in the States/UTs. More</p>

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		Significant progress has been made in the implementation of the core infrastructure components and also in most of the Mission Mode Projects.				<p>vertical hierarchical structure with a minimum bandwidth capacity of 2Mbps per link. To this effect, Government of India has issued various Guidelines/Advisories to States/UTs from time-to time to provide technical and financial support/assistance. These networks would be connected to the NICNET through appropriate interfaces at the level of State/UT headquarters. Presently, SWANs in 21 States are also being integrated with National Knowledge</p>	<p>States/ UTs, for steering the process of deployment of SWAN.</p> <ul style="list-style-type: none"> <li>• To resolve issues with BSNL related to implementation as BSNL is the crucial stakeholder for the bandwidth provisioning in the project</li> <li>• To monitor the SLAs in the States/UTs</li> <li>• To enhance the utilisation of bandwidth to more than 60% of the existing link capacity of States/UTs by connecting no of horizontal offices through the</li> </ul>		<p>specifically, BSNL being the crucial stakeholder for the bandwidth provisioning in the project, various discussions were held with DOT/ BSNL under the Working Group constituted for this purpose. The Working Group has dealt with various implementation issues and has taken appropriate decisions, leading to issue of various circulars to the circle offices of BSNL in the State/UT for smooth deployment of the connectivity for the SWANs. One of the</p>

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						Network.	SWAN.  • To monitor the performance of SWANs.	important components of SWAN is the Service Level Agreement (SLA). To monitor the SLAs in the States, DeitY has empanelled Six Third Party Auditor (TPA) Agencies. The States/UTs are selecting the TPA Agency from the six empanelled agencies for SLA monitoring.  SWAN proposals from 34 States/UTs have been approved, with a sanctioned total outlay of Rs. 1993.99 crore from the Department. The	

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								<p>proposal for implementation of SWAN in the UT of Andaman &amp; Nicobar Islands has been approved by the Empowered committee and the State of Goa has implemented GOA Wide Area Network outside the SWAN Scheme.</p> <p>The SWANs in 31 States i.e. Andhra Pradesh, Chandigarh, Chhattisgarh, Delhi, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Goa, Kerala, Karnataka, Lakshadweep,</p>	

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									<p>Maharashtra, Orissa, Punjab, Puducherry, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal, Assam, Bihar, Madhya Pradesh, Uttarakhand, Manipur, Arunachal Pradesh, Mizoram and Nagaland Meghalaya and Rajasthan have been made operational . an. J&amp;K, Dadra &amp; Nagar Haveli, Daman &amp; Diu and Andaman and Nicobar have initiated the bid process to identify the Network Operator for implementation.</p>

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									Under the SWAN scheme it was targeted to enhance the utilisation of bandwidth to more than 60% of the existing link capacity of 15 States/UTs by connecting no of horizontal offices through the SWAN . So far 10 States /UTs, namely Andhra Pradesh, Tamil Nadu, Tripura, Chandigarh, Karnataka, Manipur, Punjab, Uttar Pradesh, Himachal and West Bengal have increased their bandwidth to more than 60% of the existing link capacity. Remaining five more



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									<p>States as targeted will be completed by 31-03-2013.</p> <p>To monitor the performance of SWANs, the Department has mandated positioning Third Party Auditor (TPA) agencies by the States/UTs. 24 States, i.e., Haryana, Himachal Pradesh, Punjab, Gujarat, Karnataka, Kerala, Tripura, Orissa, Maharashtra, Arunachal Pradesh, Bihar, Madhya Pradesh, Chhattisgarh, Assam, Tamil Nadu,</p>

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								<p>Jharkhand, West Bengal, UP, Lakshadweep, Andhra Pradesh, Meghalaya, Nagaland, Puducherry and Mizoram have empanelled the TPA agencies for monitoring the performance of the SWAN in their respective State. Remaining States/UTs are in the process of empanelment of TPA. Special arrangement has been made with BSNL for providing bandwidth on concessional tariff.</p>	

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						<p><b><u>Common Services Centres (CSCs)</u></b></p> <p>The Government has approved CSC Scheme for establishing 100,000+ CSCs, in the rural areas of the country. These CSCs would be ICT enabled with broadband connectivity and would provide various Government, private and social services at the doorstep of the citizens. The Scheme is being implemented in Public Private Partnership mode. The Scheme has been approved at a total cost of Rs 5,742 crore</p>			As on 31.03.2013, 125,034 CSCs have been rolled out covering thirty three States/ UTs. As per the decisions of the 10th Empowered Committee Meeting, guidelines have been issued by the Department of Electronics and Information Technology to further streamline and expedite the process of integrating CSC like kiosks with the CSC Scheme. A total of 40,329 CSC like kiosks are likely to be integrated with the CSC Scheme.

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						with the Government of India contribution being Rs 856 crore and State Governments contribution being Rs 793 crore. The balance funds of Rs. 4093 crore would be brought in by the private sector.			A Special Purpose Vehicle (SPV) has been incorporated and established in July 2009. The CSC SPV namely ‘CSC e-Governance Services India Limited’ is now fully functional and is assisting the State Governments in the overall project management of the scheme. Twenty-seven States have registered CSCs on the Online Monitoring Tool developed at the national level. User Ids have been created for 1,15,451 CSCs and 74,818 CSCs have been registered

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								<p>under the tool.</p> <p>Since the rollout of CSC's across the country is now almost complete, it is imperative that the CSC network is utilized for service delivery in rural India. States are being encouraged to leverage CSCs for delivery of services, especially G2C services; increasing the number of e-Government transactions in rural India.</p> <p>As of December 2012, CSC scheme performance can be gauged by the fact</p>	

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								<p>that there are 16 States which have over 70% transacting CSCs. These States are Andaman &amp; Nicobar, Andhra Pradesh, Arunachal Pradesh, Assam, Chandigarh, Gujarat, Jammu &amp; Kashmir, Karnataka, Kerala, Lakshadweep, Manipur, Meghalaya, Pondicherry, Rajasthan, Tamil Nadu, and Uttar Pradesh. In addition, there are a total of 29,508 CSCs with over 200 transactions per month.</p> <p>A special thrust is being given to</p>	

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								promote the use of CSCs for financial inclusion in rural areas so as to enhance the reach of financial inclusion which would facilitate socio economic development of rural areas.	
					<p><b><u>e-District</u></b></p> <p>The Project aims to deliver high volume services that are delivered from the District or Sub-district level and are currently not covered by any MMP under the NeGP. Under the e-District MMP,</p>	<ul style="list-style-type: none"> <li>• Implementation of e-District Pilot in remaining districts.</li> <li>• Approval of DPRs of states/UTs.</li> <li>• Operationalize PMUs at centre and state level.</li> <li>• Formation of</li> </ul>		e-District Pilot project has been implemented in the pilot 37 district States (UP, Assam, Maharashtra, Madhya Pradesh, Tamil Nadu, Kerala, Haryana, Punjab, Uttarakhand, Mizoram, Orissa, West Bengal, Bihar, Jharkhand,	

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						<p>backend computerization would be undertaken and services would be delivered through the Common Service Centers established across the country. The e-District MMP will utilize the infrastructure currently being created under the NeGP such as SWANs and SDCs. e-District seeks to radically improve the way district administration works and will provide essential services to the citizens. The e-District MMP will be implemented in 2</p>	DeGS and hiring of District Project Managers.		<p>Rajasthan).</p> <p>Various guidelines for helping the States in the implementation of nation-wide rollout of project have been released. The Detailed Project Reports (DPR) for State-wide rollout of e-District project from 31 States/ UTs have been approved. Program Management Units (PMUs) at the centre and also in the States/ UTs have been operationalized. Formation of District e-Governance Societies and appointment of e-District Manager in all</p>



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						<p>phases. Under Phase I, a Pilot project is being implemented in 41 districts in 16 States, and under national roll-out, the e-District Project will be rolled out in all the remaining districts of the country.</p>			<p>the Districts are in advanced stages of implementation. Selection of Implementing Agencies in 10 States has been completed. By 31st March 2013, the e-District shall be made live in at least 100 districts across the country. These states include Kerala, Tamil Nadu, Madhya Pradesh, Andhra Pradesh and Chhattisgarh. At present, e-District has been made live in 49 districts.</p>
						<b><u>Capacity Building</u></b>			

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						<p>As part of the National e-Governance mandate, Department of Electronics and Information Technology (DeitY), Government of India has taken up the responsibility of enabling e-Governance across departments and across the country, in a phased manner. Given the diversity of the country with respect to its e-readiness and experience in implementing projects of such nature in the country, there are significant differences</p>	<ul style="list-style-type: none"> <li>• Providing institutional support and ensuring Knowledge sharing among State e-Mission Teams.</li> <li>• Leadership orientation programmes to sensitize the political leadership and policy makers on e-Governance</li> <li>• Specialized Training Programmes for senior and middle management level officers in</li> </ul>		<ul style="list-style-type: none"> <li>• 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.</li> <li>• A wide range of training programmes like Leadership Meets, Specialized Training for e-Governance Programme (STeP), CIO's Programme, Orientation workshops and other training modules</li> </ul>

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						<p>in capacities of the States/UTs and Central Line Ministries to undertake such initiatives. It is in this background that DeitY felt the need to adopt appropriate strategies that involve Capacity Building, to achieve the goals of NeGP.</p>	<p>States/UTs on key areas of e-Governance.</p> <ul style="list-style-type: none"> <li>• Preparation report on the HR Policy for e-Governance by the Expert Committee.</li> <li>• To conduct Various worksshops and programs like Leadership Meets, CIO's Programme, Orientation workshops and other training modules.</li> </ul>		<p>have been rolled out to build capacities of Government officials at all levels.</p> <ul style="list-style-type: none"> <li>• More than 115 Specialized Training programmes in e-Governance, covering more than 2500 officers, have been conducted across the country</li> <li>• Pilot CIO training programmes for training 50 officers of Central / State &amp; UT officials involved in implementation of e-Governance projects have been completed and proposal for National rollout has</li> </ul>

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							<ul style="list-style-type: none"> <li>• Devising a Framework for assessment of e-Governance Capacity Index</li> </ul>	<p>been approved.</p> <p>Formulation of HR Policy for e-Governance:</p> <ul style="list-style-type: none"> <li>• Devising a Framework for assessment of e-Governance Capacity Index</li> <li>• An agency has been engaged for preparing the Index.</li> </ul>	
					<p><b><u>World Bank assisted “India: e-Delivery of Public Services” Project</u></b></p> <p>Following approval of a Development Policy Loan amounting to US\$ 150 million</p>		<p>DeitY has established a dedicated Project Management Unit (PMU) at the national level to help in an effective and efficient implementation of this</p>		

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						(about Rs 700 crore) from the World Bank for programme management and financial support for National e-Governance Plan (NeGP), the Department of Electronics & Information Technology (DeitY) has been utilising this support as a focal point to convene all the associated departments of the central and state governments around a concrete reform agenda for e-governance in the country. DeitY is supporting critical			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 100 crore have been sanctioned and 82 more project proposals are at various stages of consideration.

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						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 impacts on the poor.			
						<b><u>Awareness &amp; Communication</u></b>  The success of NeGP hinges not only on accessibility and availability of the information and	• Awareness amongst citizens		• Outreach activity commenced in nearly 3000 CSCs in 25 States

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						<p>various services but also awareness regarding the programme, effective branding of NeGP and finally, a communication strategy that addresses the above two. The objectives of the Awareness &amp; Communication strategy for NeGP umbrella campaign is:</p> <ul style="list-style-type: none"> <li>•To build NeGP as an umbrella/corporate brand</li> <li>• To create awareness about e-Governance services &amp; service</li> </ul>	<ul style="list-style-type: none"> <li>• Building NeGP as a distinct Brand</li> </ul>		<ul style="list-style-type: none"> <li>• Citizen Engagement and Social Media Frameworks notified</li> <li>• Work on Implementation Strategy for Citizen Engagement &amp; Social Media Frameworks initiated</li> <li>• Static version of NeGP Portal, dynamic version under testing</li> <li>• 7 episodes of NeGP TV Series completed</li> <li>• Awareness workshops held at District and Sub District levels in Manipur, Assam, Rajasthan &amp; Himachal Pradesh.</li> </ul>

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						<p>delivery points</p> <ul style="list-style-type: none"> <li>To expedite ownership/stake of implementers in NeGP</li> </ul>	<ul style="list-style-type: none"> <li>Motivating other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>NeGP Theme Song launched at National Conference on e-Governance held at Bhubaneswar, Odisha</li> <li>Process initiated to declare National e-Governance Day</li> <li>6 New Advertisements and 4 new films on NeGP and CSC commenced</li> <li>Funding @ Rs. 2 Lac released to 41 Central and State Universities to organize e-</li> </ul>	



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								<p>Governance related seminars of which 29 workshops organized</p> <ul style="list-style-type: none"> <li>• Supported 20 workshops and seminars with external organizations</li> <li>• 21 State Consultation Workshops were organized across 20 states</li> <li>• 5th IFIP World IT Summit 2012 was organized.</li> </ul>	
						<p><b><u>State Portal, State Service Delivery Gateway (SSDG) &amp; Electronic Form application</u></b></p> <p>The issue of enabling</p>		<ul style="list-style-type: none"> <li>• DPR and funding of 31 states approved and Rs. 122.94 Crores released to the states/UTs.</li> <li>• Out of the approved</li> </ul>	

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						<p>Service Delivery is being addressed by earmarking funds to the tune of Rs. 400 Cr saved out of the funds of the sanctioned plan for CSC Scheme, for establishing State Portals, State Services Delivery Gateway and Gaps in infrastructure.</p> <p>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.</p> <p>This project intends to</p>			<p>31 State /UT proposals, 28 states/UTs have floated the RFP for the selection of the Implementing Agency for the project.</p> <ul style="list-style-type: none"> <li>• Out of these 28 RFPs: <ul style="list-style-type: none"> <li>• 4 states/ UTs are in the process of issuing the LoI/Contract to the selected agency.</li> <li>• 12 states/ UTs are in the implementation phase.</li> <li>• 4 states/ UTs are in the final stage of implementation and</li> </ul> </li> </ul>

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						<p>provide easy, anywhere and anytime access to Government services (both informational &amp; transactional). The project aims to reduce number of visits of citizens to a Government office / department for availing the services. It also aims to reduce administrative burden and service fulfilment time &amp; costs for the Government, citizens and businesses and creating a more efficient communication system through a portal. The major components of this</p>			<p>are likely to Go-Live by March 2013.</p> <ul style="list-style-type: none"> <li>• 9 states have gone live</li> </ul>

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						<p>project include the state portal, electronic forms, the services delivery gateway, gap infrastructure and training.</p> <p>Guidelines have been formulated to provide Technical and Financial assistance to the States for setting up State Portals, State Service Delivery Gateways (SSDGs) and Electronic Forms. As per these guidelines, financial assistance shall be provided to the States/UTs for creation of state portal, SSDGs and electronic Forms and</p>			

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						<p>meeting the operational expenses for a period of three years.</p> <p>In order to facilitate the quick implementation and roll out of the project, DeitY has empanelled 5 consultants who will assist the states in preparation of the proposals and in the bidding and selection process of Implementing Agencies. DeitY has also empanelled 6 Implementing Agencies which can bid for the state projects.</p>			

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						<p><b><u>Mobile Seva (Mobile Governance) Initiative</u></b></p> <p>As an extension of the NeGP vision, and in cognizance of the vast mobile phone subscriber base in the country, it has been decided to also provision for access of public services through mobile devices, thereby establishing mobile Governance (m-Governance) as a compelling new paradigm within the ethos of e-Governance. As part of its commitment to m-enable the delivery</p>			<p>DeitY had initiated proof-of-concept (POC) for the Mobile Services Delivery Gateway (MSDG) project in March 2011 to study the outcomes and the way forward in taking the mobile initiative in the country. MSDG was operationalized in July 2011 and has now become the core infrastructure for enabling the availability of public services through mobile devices. It is intended to be used as a shared infrastructure</p>

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						<p>of public services, DeitY has developed and notified the Framework for Mobile Governance in The Gazette of India in February 2012. The major policy recommendations of the Framework for Mobile Governance are as follows:</p> <ul style="list-style-type: none"> <li>• Web sites of all Government Departments and Agencies shall be made mobile-compliant</li> <li>• Open standards shall be adopted for mobile applications for ensuring the interoperability of</li> </ul>			<p>by the Central and State Government Departments and Agencies for delivering public services through mobile devices.</p> <p>MSDG is being developed around open standards and cloud-based solutions by DeitY through C-DAC. MSDG is currently being scaled up for implementation at the national level for meeting the ever-increasing demands from government departments interested in reaching out to the citizens</p>

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						<p>applications across various operating systems and devices.</p> <ul style="list-style-type: none"> <li>• Uniform/ single pre-designated numbers (long and short codes) shall be used for mobile-based services to ensure convenience</li> <li>• All Government Departments and Agencies shall develop and deploy mobile applications for providing their public services through mobile devices.</li> </ul>			<p>through mobile phones. Under the key components of MSDG:</p> <p>The SMS channel of the MSDG was launched to on short code “51969” allotted by DoT to DeitY. For “PUSH SMS”, 158 Central and State Departments have been integrated, and approximately 2.6 Crore SMSes have been pushed. For “PULL SMS”, 176 unique services have been operationalized.</p> <p>The m-Appstore under the MSDG was opened in January 2012. So far, 26 live</p>



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								<p>and 50 generic mobile applications (m-apps or apps) have been developed and hosted. Currently the apps are available on the Android platform.</p> <p>End-to-end mobile applications are being developed for Election Commission of India that have been deployed in the State elections in Himachal Pradesh and Gujarat.</p> <p>DeitY has also been allotted a “Category-I” 3-digit short code”166” by DoT. It is planned to use “166”offering for Government services</p>	

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								by various central and state government departments.	
						<p><b><u>National Service Delivery Gateway (NSDG)</u></b></p> <p>NSDG is a middleware infrastructure acting as a standard based routing and a message switch de-linking the back end departments from the front-end service access providers. This facilitates standards based interoperability and integration to existing and new e-governance applications. A pilot implementation has</p>		<ul style="list-style-type: none"> <li>• ISMS pre-assessment audit has been completed.</li> <li>• End to end operationalization of DR solution for NSDG has been achieved.</li> <li>• Integration has been successfully completed in staging environment for PAN verification service of CBDT and e-Migrate application. Go live has been planned in 2013.</li> <li>• Source code analysis by CERT-In</li> </ul>	

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						been successfully developed and tested. The National Gateway has been implemented by CDAC and is live since Aug'08.			and incorporation of recommendations into NSDG source code for security enhancement has been completed.
						<p><b><u>e-Pramaan– e-authentication for Public Services</u></b></p> <p>As a part of NeGP (National e-Governance Plan), several government departments/ agencies have enabled electronic delivery of their public services. These services are provided to citizens over internet as well as through mobile devices. The online and mobile based</p>			<ul style="list-style-type: none"> <li>• “e-Pramaan: Framework for e-Authentication” has been notified in The Gazette of India.</li> <li>• e-Pramaan portal (<a href="http://www.epramaan.gov.in">www.epramaan.gov.in</a>) has been developed. Users can register on the portal and would be able to access public services with the facility of Single Sign-On (SSO)</li> <li>• e-Pramaan gateway</li> </ul>

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						<p>service delivery mechanisms of Government of India have generated the need for electronically authenticating the identity of the users so that each service or benefit reaches its intended recipient in a secured manner. It has also necessitated electronic authentication of Government websites in order to build trust among the users. e-Pramaan addresses the e-Authentication needs by providing a guiding framework to all government departments and aims to establish uniform</p>			<p>has been made operational to provide Level 1 and Level 2 authentication services.</p> <ul style="list-style-type: none"> <li>• e-Pramaan gateway has been developed to provide ASA services for Aadhaar based authentication.</li> <li>• A pilot with e-Pass application of Centre for Good Governance (CGG), Andhra Pradesh has been completed.</li> <li>• Integration guidelines for departments have been formulated.</li> </ul>

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						<p>electronic authentication mechanisms. Identity management, e-Authentication, Authorization, Credential Registration, Permission Assignment and Single sign-on are key components of e-Pramaan. It also envisages creation of e-Pramaan gateway with a centralized identity directory. e-Pramaan gateway will be used as a shared infrastructure by central and state government departments/agencies for their e-</p>			

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						Authentication needs and will incorporate Aadhaar based authentication mechanisms provided by UIDAI.			
						<b><u>India Portal</u></b> India Portal is a Mission Mode Project in the integrated service category under the NeGP. This Portal is envisaged to be a unified portal that will provide 'single window access' to information and services to be electronically delivered from all state sector institutions and			Content Enhancement - This is an ongoing activity and content is regularly enhanced under different sections/modules of India Portal namely Business, Overseas, Citizen, Governments, Sectors, Know India and Services  Award ceremony for Web Ratna – Awards were given in 8 different categories

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						organizations.		for Government Ministries/ Departments/States/Offices to promote exemplary e-governance initiatives.  Training and support for has been provided for the implementation of website design guidelines.	
						<b><u>Standards for e-Governance</u></b>  Standards for e-Governance are a high priority activity which will ensure sharing of information and seamless interoperability of data and e-		<ul style="list-style-type: none"> <li>• Mechanism for formulation of MDDS in various domains has been approved.</li> <li>• MDDS for Panchayati Raj &amp; PDS &amp; Health have been initiated.</li> <li>• Best practices and</li> </ul>	

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						Governance applications under NeGP.		Standard document for preservation of e records have been drafted.  • Technology Standards in Interoperability Framework for e-Governance (IFEG) have been notified in June 2012.	
2	<b>National Informatics Centre (NIC)</b>	Provide wide range of E-Governance infrastructure and services in the Country at various levels right from Central Government, State Governments to district administrations in their initiatives		754.00 (incl. 75.00 Cr for NER)		<b>Cyber Security</b>  Network and application security audit and hardening Securing new Data Centres Enhancement of security at NIC state centres Providing different level of Cyber Security training to NICNET users	Enhanced security of NICNET and services	March, 2013	Enhancement of security in UP and Chhattisgarh States. Implementation of SIEM solution in progress. Implementation of Patch management solution in North Block. Checking vulnerabilities in the servers in the Data



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		towards providing good Governance to the people.							Centres in States.  Security on NICNET enhanced in UP and Chhattisgarh.
						<b>Certifying Authority</b>  Setting up New Registration Authorities (RA)	DSC Subscribers will be serviced by three new RA offices in NIC States Centres to enable better support to the subscriber and Reduce the delivery time	March, 2013	RA offices have been set up in Mumbai, Pune and other location.

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						<p>Augmentation of CA Services to cater to specialized application of e-governance and Enhance the security features of e-Governance applications</p> <p>Enhancement of CA Services for promotion of e-Governance</p>	<p>March, 2013</p>	<p>More than 50,000 DSC's issued to Government Employees.</p>	
						<p><b>Design, Development, implementation of e-governance applications at various locations/sites in sectors such as :</b></p> <ul style="list-style-type: none"> <li>• Public distributions (e-PDS)</li> </ul>	<ul style="list-style-type: none"> <li>• Faster services</li> </ul> <p>March,</p>	<p>These applications</p>	

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						<ul style="list-style-type: none"> <li>• Govt. Procurement (e-Procurement)</li> <li>• Health (e-Hospital)</li> <li>• Office Management (e-office)</li> <li>• Judiciary (e-courts)</li> <li>• Rural development (MGNREGS, Panchayat Suite, RuralSoft etc.)</li> <li>• Transport (Vahan, Sarathi)</li> <li>• Immigration, Visa and Foreigners Registration &amp; Tracking (IVFRT)</li> <li>• Property</li> </ul>	<p>to citizen</p> <ul style="list-style-type: none"> <li>• Ease of use for end-users</li> <li>• Better management</li> </ul> <p>Resulting in better e-Governance</p>	2013	have been implemented..

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						Registration • Land Records,etc.			
						<p><b>Videoconferencing infrastructure development</b></p> <p>15 State units and some selected district centers would be augmented with additional VC facility</p> <p>7 states having more than 30 districts would be augmented</p>	<p>More usage and better communication facilities</p> <p>To meet local needs and improvement of VC facilities</p>	<p>Dec- 2012</p> <p>Sept-2012</p>	<p>Delivered and installed.</p> <p>Augmentation carried out.</p>

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						<b>Remote Sensing &amp; GIS</b>  National GIS Infrastructure, Image as well as vector GIS services, priority sector applications & training	Service Oriented National GIS Framework with Web Services/APIs to service various E-governance & planning users	March, 2013	Data From various sources have been updated and validated.
						<b>Data Centre</b>  <ul style="list-style-type: none"> <li>• Enhancement of National Data Centre at Shastri Park Delhi and Pune</li> <li>• Enhancement of NIC State level Data Centres.</li> <li>• National Data</li> </ul>	To provide robust and scalable infrastructure at National Level for e-governance services.	Dec.2013  Oct., 2012	Enhancement Completed  Enhancement Done

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						Centre at Bhubaneswar to be established	March, 2013	SFC has been approved.	
						<b>High Speed Terrestrial Circuits</b>  Operationalization of connectivity capacity and Bandwidth  Creation of multiple virtual private network to cater various mega e-gov projects.	To facilitate various Pan-India e-gov. projects	March, 2013	150 District links have been upgraded.  Secondary 100 Mbps links from RAILTEL/ PGCIL are installed apart from existing Primary link on BSNL.
						<b>NICNET International Gateway project</b>			

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						Gateway Bandwidth will be upgraded to 20 Gbps	Enhanced and efficient availability of Internet Services	March, 2013	NICNET Internet Gateway is already enhanced and new Gateway will be installed at Chennai
3	<b>National Knowledge Network (NKN)</b>	The objective of the National Knowledge Network is to bring together all the stakeholders in Science, Technology, Higher Education, Research & Development, and Governance with speeds of the order of gigabits per second coupled with extremely low latencies; through PoPs in the respective	-	360.00 (incl. 25.00 Cr. for NER)	-	NKN will interconnect all institutions engaged in research, higher education and scientific development in the country, over a period of time.  The output of the project will be a high capacity countrywide Infrastructure at education & research Institute level, which will be available 24x7 to support education and	NKN will facilitate creation, acquisition and sharing of Knowledge resources among the large participating Institutions; collaborative research; countrywide classrooms (CWCR) etc. and help the country to evolve as Knowledge Society.	End of FY 2012-13	

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		institutions/ organisation.				<p>research application, and other application as envisaged by these institution which require very high bandwidth.</p> <p><b>FY 2012-13</b></p> <p><i>*Budget Provision was Rs. 360 cr at BE stage and it was revised to Rs. 152.19 Cr. against the projected outlay of Rs 2406 cr. Out of which Rs. 3.39 Cr. released for Initial Phase which excludes Rs. 0.61 Cr. as interest adjusted. An amount of Rs. 118.80 Cr. released for Final Phase. The total amount released Rs. 122.19 Cr. The balance could not be</i></p>			



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						<p>released due to instructions imposed by MOF.</p> <p><b>Target for 2012-13:</b></p> <p>i. To complete the NKN backbone for the CORE (which includes all the POPs at the state level).</p> <p>ii. Extending the NKN connectivity to additional 350 institutes.</p>			<p>(i) A total of 988 links to Institutions have been commissioned and made operational. This includes 274 links to institutions under NMEICT, which have been migrated to NKN.</p> <p>(ii) SWAN have been integrated with NKN for a total of 21 states/UTs are: Andhra Pradesh, Gujarat, Karnataka, Tamil Nadu, Uttar Pradesh, Maharashtra,</p>

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						iii. Completion of the infrastructure work and operationalization of all POPs at state level.		<p>Pondicherry, Chhattisgarh, Rajasthan, Bihar, Himachal Pradesh, West Bengal, Assam, Chandigarh, Odisha, Madhya Pradesh, Haryana, Tripura, Sikkim, Kerala, Delhi.</p> <p>(iii) SDC has been integrated with NKN for a total of 17 States/UTs are: Gujarat, Karnataka, Tamil Nadu, Maharashtra, Uttar Pradesh, Rajasthan, Manipur, Meghalaya, Tripura, West Bengal, Andhra Pradesh, Odisha, Chandigarh, Haryana, Sikkim, Kerala, Madhya</p>	

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						<p>iv. Create various Test-bed infrastructures for research in the field of networks and security.</p> <p>v. Facilitating implementation of model projects indentified by MPEC and monitoring them on a timely basis.</p> <p>vi. Establishment of international R&amp;D connectivity &amp; internet gateways.</p> <p>vii. International connectivity with other NRENs.</p>			<p>Pradesh.</p> <p>(iv) CUG for CDAC created.</p> <p>(v) CUG for CSIR done and created an integration template to enable CSIR-ONE project . This is their ERP solution.</p> <p>(vi) NKN is now connected with TEIN4</p> <p>(vii) NKN Connectivity has been extended to 60</p>

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						<p>viii. Extending the NKN connectivity to secondary PoPs of NKN at the district headquarter level.</p> <p>ix. Operationalization of Data Centre at NKN to deliver common services (as mentioned in the figure) to all the member organizations and establishment of a full-fledged Network Monitoring Centre.</p> <p>Procurement of equipment for connecting the remaining institutions under NKN.</p>			<p>district links.</p> <p>(viii) NKN PoPs are created at Guwahati, Hyderabad, Bangalore, Bhopal and Mumbai.</p> <p>(ix) NKN has conducted 12 workshops across the country including a National Level Workshop at IIT, Mumbai.</p>

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4.	<b>Manpower Development (incl. Skill Development in IT)</b>	Human Resource Development in the country in the area of Information Security.	-	127.69 (incl. 27.00 Cr. for NER)	-	<ul style="list-style-type: none"> <li>Continuation of Information Security Curriculum at Certificate/B.Tech / M.Tech/ Ph.D levels</li> <li>Continuation of training of Government Officials and</li> <li>Continuation of Awareness Programmes for school children, students, teachers etc.</li> </ul>	<p>Availability of trained security professionals in Industry/Government.</p> <p>More secured environment for BPO, Commerce and governance.</p> <p>Reduction in Cyber crimes</p>	March 2013	<p><i>Academic Activities:</i></p> <ul style="list-style-type: none"> <li>The Resource Centres (RCs-06)/Participating Institutes (PIs - 33) have launched academic courses on Information Security from doctoral level to short-term level; So far more than 36,000 students have been trained/undergoing training in various long-term/ short-term courses at these institutes.</li> <li>Four (04) Faculty training programmes for PIs organized through TIFR &amp; IISc.</li> <li>Information Security Labs set up at all the RCs and</li> </ul>

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									<p>PIs.</p> <ul style="list-style-type: none"> <li>Schemes for Travel Fellowship for attending conferences, paper presentation, short-term courses, workshops, tutorials etc. for students and faculty of RCs/PIs, and Revised Ph.D Scholarship/Fellowship for students of RCs/PIs evolved and launched.</li> </ul> <p><i>Government Officer Training: implemented through six implementing agencies viz. NIC, CERT-In, STQC, CDAC DOEACC Society, ERNET</i></p>

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									<p><i>India.</i></p> <ul style="list-style-type: none"> <li>• Organized training of seventy eight (78) Master Trainers so far through IISc. Bangalore at ISTM, Delhi, IISc., Bangalore &amp; CMU, USA.</li> <li>• Organized an Advanced level training programme for a batch of 20 participants at CMU, USA through IISc. Bangalore.</li> <li>• Organised training of one more batch of Master Trainers at ISTM, Delhi.</li> <li>• Various Training Programmes for Government</li> </ul>

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								<p>Officers are being conducted by six (6) Implementing Agencies.</p> <ul style="list-style-type: none"> <li>• A modular courseware on Information Security (10 Modules) for short duration training programmes has been designed/developed through CDAC, Hyderabad. The courseware has also been integrated with e-learning tool (e-Sikshak) and hosted through website by C-DAC Hyderabad.</li> </ul> <p><i>Information Security Awareness: implemented through CDAC</i></p>	



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								<p><i>Hyderabad.</i></p> <ul style="list-style-type: none"> <li>• So far 464 workshops have been organized across the country covering about 17,706 Teachers/ Parents/ CSC/ NGOs, etc., and about 46,462 school children/ Engg. / Degree college students.</li> <li>• During these workshops, around 35,400 Awareness Kits (with promotional material and Hand Books) were distributed.</li> <li>• Hindi version of Security Awareness Handbook developed and</li> </ul>	

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								<p>10,000 copies were distributed.</p> <ul style="list-style-type: none"> <li>• 30 posters on various topics of Information Security Awareness were designed and around 72,200 posters were distributed to target users. Further, around 30,000 stickers were distributed in Mumbai Internet Safety Week 2010 in association with Mumbai Cyber Police, NASSCOM, and DSCI.</li> <li>• Fifteen (15) cartoon videos developed for children.</li> <li>• A dedicated website for information security awareness</li> </ul>	

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								<p>(<a href="http://www.infosecawareness.in">http://www.infosecawareness.in</a>) has been developed.</p> <ul style="list-style-type: none"> <li>• Course material like guidelines for XP, Linux, wireless configurations developed.</li> <li>• Several Security e-Books developed (Security Guidebook, Security Tool Kit, Children Hand Book, Guidebook for Teachers and Parents) and made available on the web site - 8500 downloads so far.</li> </ul> <p><i>Certification Scheme for Information Systems Security</i></p>	

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								<p><i>Professionals: implemented through DOEACC Society.</i></p> <ul style="list-style-type: none"> <li>• A national level certification scheme for Information Systems Security professionals evolved with DOEACC Gorakhpur as nodal centre. The scheme consists of three levels (both in regular as well as direct mode) viz. <ul style="list-style-type: none"> <li>✓ <b>Level-1:</b> <i>Certified System Security Analyst (CSSA) - Launched in July 2010.</i></li> <li>✓ <b>Level-2:</b> <i>Certified System Security</i></li> </ul> </li> </ul>	

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								<p><i>Professional (CSSP)</i>  - Launched in January 2011.  ✓ <b>Level-3:</b>  <i>Certified Forensic Professionals (CFP)/ Certified Information System Security Auditor (CISSA)/ Certified System Security Solution Designer (CSSD)</i> - Launched in October 2011.</p> <ul style="list-style-type: none"> <li>• 484 candidates for Level-1; 101 candidates for Level-2; and 28 candidates for Level-3 have been registered.</li> <li>• So far four exams have been conducted for Level-1, three exams conducted for Level-2 and one exam has</li> </ul>	

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								<p>been conducted for Level-3. 48 candidates have cleared Level-1, 12 candidates have cleared Level-2 and 4 candidates have cleared Level-3.</p> <p><i>Miscellaneous</i></p> <ul style="list-style-type: none"> <li>• Two Appraisal Workshops covering all the RCs/Pis and implementing agencies conducted so far at IIT Madras and IIT Guwahati.</li> <li>• In line with the recommendations of the PRSG, the duration of the</li> <li>• ISEA Project has been extended up to 31.3.2013.</li> </ul>	
		Human Resource Development in				<ul style="list-style-type: none"> <li>• Training of 250 students each by</li> </ul>	Create skilled manpower in the	Dec 2012 (NIELIT	<ul style="list-style-type: none"> <li>• NIELIT Centre, Shillong</li> </ul>

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		the North-Eastern Region				NIELIT Centres at Shillong (Meghalaya), Gangtok (Sikkim) and Itanagar (Arunachal Pradesh)	area of IECT leading to socio-economic development of the region.	Shillong) July 2013 (NIELIT Gangtok)  January 2014 (NIELIT Itanagar)	(Meghalaya) has commenced operations from December 2009. So far 1366 students have been enrolled/trained in various long term and short term courses since inception.  • NIELIT Centre, Gangtok (Sikkim) has commenced operations from December 2010. DOEACC courses ‘O’ level in IT, ‘CCC’, ‘BCC’ and other short term course have been started. So far 580 students have been

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									<p>enrolled in various long term and short terms courses since inception.</p> <ul style="list-style-type: none"> <li>• NIELIT Centre, Itanagar (Arunachal Pradesh) has commenced operations from February 2011. The centre is presently offering DOEACC ‘O’ &amp; ‘A’ level course in IT, CCC and other short term courses. So far 514 students have been enrolled in various long term and short terms courses since inception.</li> </ul>



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		Setting up of Regional Institute of e-Learning & Information Technology at Ajmer (Rajasthan)				Setting up of Regional Institute of e-Learning & Information Technology at Ajmer (Rajasthan)	Create skilled manpower in the area of IECT leading to socio-economic development of the region.	Nov 2014	<ul style="list-style-type: none"> <li>NIELIT has obtained land around 42 acres from State Govt. of Rajasthan free-of-cost. Project Management Consultant has been appointed for construction activities of NIELIT campus. Necessary Campus Drawings prepared.</li> <li>NIELIT Centre in Ajmer District at Kekri has started training programs since September 2012 in DOEACC 'O', 'A' level in IT and 'O' level in</li> </ul>

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								Computer hardware. So far 117 students are undergoing training programs.	
		IT Skill development for the disadvantaged segments of the society in 9-10 States and one UT				<ul style="list-style-type: none"> <li>• Training in IT Skills to improve the employability of the rural youth belonging to SC/ST &amp; Minority Communities - 48,000 students</li> <li>• Training program on ITES-BPO (Customer Care and Banking) to improve the employability of the rural youth belonging to Women, SC/ST &amp;</li> </ul>	To reach IT education to remote corners of the country, including rural as well as disadvantaged segments of population such as SC/ST, OBC, disabled persons, minorities, economically weaker sections, etc.	Feb 2013	<ul style="list-style-type: none"> <li>• Training programme on IT Skills – 17,657 students trained/undergoing training/ scheduled for training.</li> <li>• Training programme on ITES-BPO (Customer Care and Banking) – 4,808 students trained/undergoing</li> </ul>

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						<p>Minority Communities - 9,000 students</p> <ul style="list-style-type: none"> <li>• Training in Electronics Equipment Repair &amp; Maintenance to improve the employability of the rural youth belonging to SC/ST &amp; Minority Communities - 32,400 students.</li> </ul>			<p>training/ scheduled for training.</p> <ul style="list-style-type: none"> <li>• Training programme on Electronics Equipment Repair &amp; Maintenance – 10,002 students trained/ undergoing training/ scheduled for training.</li> </ul>
		Advanced Faculty Training in Emerging Trends of Hardware, Embedded Systems and Information Technology - C-				<ul style="list-style-type: none"> <li>• To impart advanced training through innovative and participative learning-teaching approaches within a project based</li> </ul>	Skilled engineering faculty members with hands-on exposure to industry relevant areas of IECT.	Jun 2013	<ul style="list-style-type: none"> <li>• A total of 495 faculty members from 20 states in India were trained under this programme.</li> </ul>

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		DAC Hyderabad				<p>training framework to 500 engineering faculty members.</p> <ul style="list-style-type: none"> <li>To conduct ten Workshops/ Seminars on latest technological trends and possible research that can be taken up in IT.</li> </ul>	<p>Research Orientation to faculty members who attended the training programs in the area of IECT.</p>		<ul style="list-style-type: none"> <li>Six(6) One-day Workshops/Seminars were conducted covering latest technological trends and possible research directions in relevant topics. The topics covered are Cloud Computing, Mobile and Ubiquitous learning, W-Suraksha: Securing Web, Information Technology, Computers, Telecommunication and Electronics in Intelligent Transportation Systems, Open Source</li> </ul>

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									Technologies etc.
		<b>Internet Proliferation &amp; Governance:</b> Implementation of Internationalized Domain Names in Indian Languages under .IN Registry.				Roll out of Internationalized Domain Names in 7 major Indian Languages namely Hindi, Bengali, Gujarati, Panjabi, Tamil, Telugu and Urdu.	Availability of Domain Names in a few major Indian Scripts-Languages Increase in the number of Internet users. Hosting of local language websites. Overall increase in the number of users on the Internet. Help in development of content in local language.	June 2012	ICANN has delegated 7 ccTLDs (Hindi-Devanagari, Bengali-Bengali, Gujarati-Gujarati, Punjabi-Gurumukhi, Tamil-Tamil, Telugu-Telugu and Urdu – Perso-Arabic). Out of that .□□□□ is integrated and tested by NIXI.
		An Open Source Web Browser for the Blind People				Development of a framework, with the required toolset, to enable the sightless people browse the	An open source web browser with voice feedback for the blind with speech facilitation	June 2012	User Interface, Open source web browser code compilation and its compilation in

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						web. Open Source Web Browser with Text extraction engine; Text to Braille transliteration system in Linux platform; Integration with Braille Devices; Integrating an open source English TTS engine to the web browser; Pilot Deployments, Evaluation and user Testing of the system; Facilitation of browsing through mouse for the blind; Formatting the extracted text into TTS or Braille transliteration engine access	for navigation or data entry in a web page.		Windows environment, speech input methodology and output in speech and Braille transliteration activities have been completed.  Scope of the project modified based on blind users of the model developed and demonstrated under the project.

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						format; System Evaluation and Testing			
		Deploying Omnipresent Ethernet Based Data-Centers in Actual Networks – Validation of Project Periscope				Omnipresent Ethernet, indigenously developed by the Investigator through the DIT funded project PERISCOPE (Pragmatic Efficient Reliable Internetworking Solution using Consumer centric Omnipresent Ethernet) in a real network - two-data-centers of a tier-1 service provider. Manufacturing of 50 routers of OEthernet	A telecommunication product built in India, using Indigenous technology and deployed.	April, 2012	Optical Ethernet Switch developed indigenously and the router deployment has been done in two Data Centres of MTNL in Mumbai with service providers using the data centre assured upto 85%.

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						technology; Control plane development; Deployment in MTNL.			
		Virtualized Cloud Computing Infrastructure using Light-trails and Very Fast Switching				To build a cloud based on networking technologies – providing end-to-end services from the application layer all the way to the physical layer. Demonstration of high-speed traffic over the first version of the test-bed; Creation of a security framework for cloud computing; Demonstration of virtualization of resources over 100	Develop, deploy, test and validate light-trails and Omnipresent Ethernet layer to demonstrate - stand-alone end-to-end service manifested for cloud computing needs; Intricacies of virtualization over a distributed infrastructure would be investigated; Since this is a first end-to-end solution, performance from	September, 2013	All Ethernet backbone, VM(Virtual Machine) migratory testing and optical interfaces have been created.



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						km fiber; Study of autonomic two stage control algorithm; Implementation of security between virtual machines. Implementation of admission control and of the two stage autonomic control algorithm and services over 8 node test-bed.	an end-to-end would be measured so as to showcase applications over a real network.		
		Testing and Deployment of IDN Tools, Maintenance and Up-gradation of Policies and Assistance to NIXI – C-DAC Pune				Maintenance and possible emendations to the IDN policies developed in line with ICANN updations; Introduction of new languages and scripts; Deployment	Roll out of domain names in all the major Indian languages	2014	PRSG approved One year extension w.e.f 5th May 2014. First Hindi be released in the first phase(Launching the “.□□□□” on August 15, 2014) and subsequently

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						and Integration of the 7 languages approved by ICANN; Proposing the remaining 15 languages to ICANN; Creation of tools for prevention of scamming and phishing; Organizing International Conference and IDN stakeholder meetings. Providing variant tables and ABNF's for the 22 official languages. Developing language policies for all 22 languages. Organising language specific community workshops for			other TLDs could be launched. A browser plug-in to detect possibly phished URL is in its final stage.

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						gathering community consensus. Maintenance & Introduction of new languages and scripts all 22 official languages including alternative scripts, policies, tools like Floating keyboard and fonts etc. Deployment and Integration of the Indian languages that are added by ICANN /IANA in the root zone.			
		Global Internet Governance and Advocacy (GIGA)				Initiating and conducting fundamental and applied research to State and re-state	Bringing out educational courseware on Internet and its Governance	April, 2012	<ul style="list-style-type: none"> <li>• The Institute infrastructure was set up in March 2011.</li> <li>• 35 research publications</li> </ul>

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						Legal Systems and Instruments and its interface with Internet Technology in every branch of Law Civil, Criminal, Evidential, Fiscal and International.  Employment / Immigration/	aspects. Including fundamental research in human interface technology. The institution will also undertake advocacy initiatives for industry, law agency and govt in the areas of Internet Governance based on the study carried out with policy makers, international organizations and experts in the domain area.		<ul style="list-style-type: none"> <li>• 12 International conference and domestic meets.</li> </ul>
		Design and Development of a Dynamic Firewall Solution				Development of a dynamic firewall  Evolve adaptive mechanisms	Design and develop a dynamic firewall that shall provide mechanisms for	September, 2012	Project completed with following outcomes :  1. Rules governing

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						(behavior model); dynamic firewall rules; algorithms and mechanisms for validation and consistency verification of the dynamic rules; Re-configuration of the firewall based on consistent and validated set of rules as features of a dynamic firewall as a product.	firewall auto re-configuration, formulation of adaptive rules and ensures the rule and policy consistency.		dynamic firewall is generated 2. Verification and validation of rules done.
		Design & Development of Voice based Internet Browsing System in Hindi for the Health Domain				Voice based Internet Browsing System in Hindi for the Health Domain. Deliver voice enabled search system for individuals and Visually Impaired	To design, develop, integrate and deliver voice enabled search system for individuals and Visually Impaired persons. Providing	March 2012	The voice based web browsing mapped with NVDA system existing in all devices and the health domain semantics for a larger coverage of

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						persons.	user Interface to query in Hindi in both Textual and Spoken form on the World Wide Web for Education and Health Domains.  And Provide Ranked Output results in textual and speech form in the search query language.		the health domain improved.
		Shruti-Drishti - Advanced Technology for Visually Impaired using a Novel Approach of PicDhwani (PIcture and Character				Develop a prototype system and demonstrate the same through a mobile handset and to teach C-DAC-NISAL Language (C-DAC's Non-	The project envisages to convert the stream of images into sound captured by camera. Visually challenged users can visualize the	September, 2012	An 8 pixel picture based sound language. A visually impaired person used the system effectively and demonstrated the system

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		Visualization through Sound).				Invasive Sound Accessible Lemmatization Language) to a group of young blind children.	images after training of C-DAC-NISAL language. This will help Visually Challenged and partial blind to recognize and read the text material.		developed so far by recognizing the alphabets by using the keyboard and through a mobile phone.
		Design and Development of a Cooperative High Performance Traffic GENERator for Time-Sensitive Network AnalySis (GENESYS)				Design and development of a platform to enable generation of high speed, low latency, realistic, highly resolute and precise network traffic and interconnect interface for next generation gigabit transport networks. To develop a Cooperative (PC &	The outcome envisaged is the Design and development of a platform to enable generation of high speed, low latency, realistic, highly resolute and precise network traffic and interconnect interface for next generation gigabit transport networks.	April, 2014	Project extended till September 14.  FPGA board layout design completed. Detailed action plan is prepared .completion of some of the development activity, testing integration with component being developed by

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						FPGA) High Performance Traffic Generator configurable & programmable module to generate / facilitate high speed data transfer capability also to enable pre / post processing and analyze network traffic. Also function as a network interface for high speed network and protocol wrapper between 40G Ethernet to OTU3.			CDAC Hyderabad
		Characterization of UDT for Bulk				To explore the usage of UDT as an	Analysis report on usage of UDT for	April, 2013	Project completed with following



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		Data Transfer Applications in High Speed and Wireless Networks				alternative network protocol for Grid, Cloud and Peer-to-Peer applications and enable security in high-speed networks and to monitor the performance with the last mile having wireless network. Investigating the usage of UDT for Bulk Data Transfer Applications in High Speed and Wireless Networks - Identify the high speed applications using Grid / Cloud; Transform the applications for the usage of UDT protocol; Design	reliable bulk data transfer applications and UDT support for identified applications; Security enabled UDT APIs and Test report providing the performance & throughput details over NKN fabric and last mile wireless networks with Availability of pilot production facility in the organization.		<p>outcomes:</p> <p>i. Design and Develop security framework based on UDP</p> <p>ii. Cloud application for sector sphere(Sector-Sphere is a system for distributed data storage, distribution, and processing)</p> <p>iii. Two draft paper for RFC in IETF submitted.</p>

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						and development of security API's for UDT; Evaluating the performance with the identified applications for security enable UDT protocol and Testing on National Knowledge Network fabric.			
		E-learning				Design and Development of Service Oriented Architecture based Standards Compliant e-Learning Framework with Personalized Learning Features - to develop an intelligent e-learning system catering to personalized learning complying with	<ul style="list-style-type: none"> <li>• E-learning standard compliant tool with support to Personalized learning</li> <li>• An integrated conversion tool for creating SCORM compliant content</li> <li>• Integrated video streaming capability</li> </ul>	June, 2012 (extended upto Dec. 2012)	The activities related to exploration of Rich Internet Application (RIA) framework and prototype demonstration of sample application, exploration of web mining related aspects, exploration of Personalized E-Learning Environment

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						standards, using technologies like service oriented architecture (SOA), web mining and Rich internet applications (RIA).			related aspects and identification of relevant services, design of services oriented architecture for e-learning framework, incorporation of standards compliance features, development of Web Mining algorithm for incorporation into e-Learning framework and development of SCORM compliant content conversion tool have been completed. Two workshops on e-Learning standards & personalized e-Learning were also

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						Design and Development of a Framework for Adaptive Instruction (FAI) – to deliver instruction in personalized manner, to set up FAI server, to provide Indian language support.	<ul style="list-style-type: none"> <li>Creation of an environment that presents learning material depending on the learner model and preferences</li> </ul>	Feb., 2012* (extended upto August 2012)	conducted. An Open Source Framework for Adaptive Instruction to deliver instruction in personalized manner has been developed. For checking the usability and effectiveness of the framework science and social science subjects of standard VI as per NCERT syllabus were used. Adaptive Instruction server is setup where courses are deployed. Instructional mark-up language has been formalized and is enhancement with support for

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						<p>Video Compression and Decompression for E-Learning - to improve latency and performance of video compression and decompression techniques based on standard H.264 for lower bandwidths (below 128 kbps) and to provide better quality of video and audio at lower bandwidths and lesser latency for e-Learning.</p> <p>Online Labs (Olabs)</p>	<ul style="list-style-type: none"> <li>To improve codec standard H.264 or to develop video compression and decompression (codec) standard for better quality of video such as 128 kbps.</li> <li>A setup for e-Learning using the proposed standard</li> <li>Lab Framework for experiments</li> </ul>	<p>April, 2012 (extended upto Oct. 2012)</p> <p>March</p>	<p>personalization parameters and pedagogical tags.</p> <p>Image codec using MATLB, which will use lesser bandwidth, was developed. For video codec using H.264, Ffmpeg codec with webm technology was used. Merging of image and video to bring them in the single UI was completed as a tool. The image codec and Video encoder is shared with Brihaspati LMS for integration.</p> <p>Online 30 practical</p>



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						disabled in the domain of E-Learning that would result in development of tools and products in the area of accessibility from the emerging and promising technologies.	support of local language • Awareness and training programmes and workshops to be organized		2012 and the Product Prototype CDs were distributed to 10 associating Special Schools of Bangalore and Hyderabad. MOU has been signed with National Institute for the Mentally Handicapped (NIMH), Secunderabad. Directors, Principals and Special Educators from identified schools related to mentally retarded, autism disorders etc. attended the one day workshop/ Awareness Program from Bangalore and Hyderabad.

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						<p>Content generation, adaptation and distribution in m-learning environment for Mobile phone applications - To identify and develop mobile learning content and to adapt and render the developed content for mobile phones suitable for finishing school students. Also to develop mobile video streaming application and to deploy and distribute the mobile learning content to the students of finishing schools</p> <ul style="list-style-type: none"> <li>• Mobile learning content suitable for finishing school students in the area of soft skill, data structure and C programming and Entrepreneurship</li> <li>• Software for mobile video streaming application</li> <li>• M-Learning environment set up for students of finishing schools</li> </ul>	<p>March 2012*  (extended upto March 2013)</p>	<p>Development of prototype for mobile streaming application has been completed. Online survey has been conducted to gather user requirements. The content structure has been identified and reviewed by experts. Content development for C-Programming, Data structure have been completed and content related to Soft skills and Entrepreneurship is going on. Also developed mobile video streaming application for J2ME and Android platforms. Design</p>	



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									and development of Admin module and Device detection, Profiling and Categorization module have been completed. Testing of software, review of contents, deployment and testing at C-DAC, Hyderabad, TCE, Madurai and JNTU, Hyderabad, content uploading are under process.
						Fresh project proposals for E-Learning in the area like development of authoring tools, Video Compression/ decompression techniques, developing content independent of			Few fresh proposals received and are under examination

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						Platform and environment, Personalized Learning and content management system etc. 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.			
5	<b>Technology Development for Indian Languages</b>	The major objectives of the programme are:  (1) To develop information processing tools to facilitate human	-	35.00  (incl. 3.00 Cr for NER)	-	<b><u>New Projects</u></b>  Development of Indian Language to English Machine Translation System.  Development of Voice interface using speech recognition in	Indian Language to English Machine Translation.  Automatic Speech Recognition for	Sep 2012  Dec 2012	Project being finalized  Project being conceptualized

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		<p>machine interaction in Indian languages and to create and access to multilingual knowledge resources/content.</p> <p>(2) To promote collaborative development of futuristic technologies leading to innovative products and services.</p>				<p>Indian Languages for Railways/ Geospatial information.</p> <p>Development of Tree bank structures for Indian Languages.</p> <p>Digital Archival facility for TDIL Project Outcomes</p> <p>Development of Morphological Analyzers in Indian Languages.</p> <p>Research &amp; Development for,</p>	<p>Mobile</p> <p>Indian Language Resources for Natural Language Processing applications.</p> <p>Preservation of the developed source code for various Indian Language Technologies for future research and technology transfer.</p> <p>Indian Language Tool for Machine Translation Systems</p> <p>Promotion and</p>	<p>June 2012</p> <p>April 2012</p> <p>April 2012</p>	<p>Project under approval process</p> <p>Project initiated</p> <p>Project initiated</p>

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						<p>promotion and proliferation of Localization in official languages, Dev. of localization tools showcasing Laboratory etc.</p> <p>Development of Voice interface using speech recognition in Indian Languages for Railways/ Geospatial information</p> <p>Mobile Web Initiative in Indian Languages</p>	<p>Proliferation of Localization technologies in Indian Languages</p> <p>ASR engines in Indian Languages for Mobile and Geospatial information</p> <p>Development of Mobile Web Standards and Mobile Ok in Indian Languages</p>	<p>Dec 2012</p> <p>Jan 2013</p> <p>Dec 2012</p>	<p>Project being evolved with fine tuned deliverables</p> <p>Project being conceptualized</p> <p>Community Group on Mobile Web constituted. Project on Mobile Web Standardization being</p>

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						<p>Sanskrit –Hindi MT System Consortium–Phase -II</p> <p>Sanskrit NLP Tool and Sanskrit-Hindi MT system would be developed</p> <p>Sep 2012</p> <p>Development of Pronunciation Lexicon for 5 Indian Languages based on Phonemic and Phonetic Study.</p> <p>PLS of 3.00 lakh words for 5 Indian Languages</p> <p>April 2012</p> <p><b><u>On-Going Projects</u></b></p> <p>Six Consortium Mode projects –Phase –II in the areas of Eng-</p> <p>Enhancement of systems of Performance of MT , OCR and</p>			<p>evolved</p> <p>Project being initiated</p> <p>Project initiated</p> <p>Eng-Indian languages Machine Translation,</p>

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						<p>Indian languages Machine Translation , Indian Languages – Indian Languages Machine Translation , OCR , OHWR and Cross-lingual Information Access (CLIA).</p> <p>Stake holders consultation and Validation of the following :</p> <p>Consolidation of inputs for internalization in W3C standards namely CSS, PLS, Xforms, XHTML and E-Gov activity.</p>	<p>OHWR and CLIA in Indian Languages.</p> <p>Web Internationalization , Standardization and W3C India Initiative</p>	<p>Feb 2013</p> <p>Dec 2012</p>	<p>Indian Languages – Indian Languages Machine Translation, OCR, OHWR and Cross-lingual Information Access (CLIA) with more language pairs and improved efficiency are being developed.</p> <p>Best Practices for Internationalization of E-Gov in Indian Languages submitted to E-Gov Localization Standards Group for inclusion in National E-Gov Framework.</p> <p>Indic Layout Task Force constituted to work on W3C Internationalization</p>

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						<p>Uploading of Language Technology Software Tools &amp; resource</p> <p>Support for CD user</p>	<p>Indian Language Technology Proliferation and Deployment Centre</p>	<p>Core Working Group</p> <p>Draft requirements of CSS requirements in Indic Languages evolved. Stakeholders consultations initiated.</p> <p>Community Group on Mobile Web initiated. Project on Gap Analysis for Mobile Web in Indian Languages initiated.</p> <p>Draft requirement for E-pub in Indian Languages evolved. Community Group being formed</p> <p>124 Language Resources and Tools have been uploaded to TDIL Data Centre.</p>	

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						<p>base.</p> <p>Percolation of CDs to new spheres.</p> <p>Reviewing of CD Contents &amp; also upgrades of open source regions.</p> <p>Development of Indian Languages fonts for Mobile handsets</p> <p>Development of Text-to Speech Systems Indian Languages integrated with Screen reader and Mobile Environment</p> <p>Alpha version of Speech Recognition Systems in 5 Indian</p>	<p>National Roll-Out Plan Phase-II</p> <p>Alpha version TTS Systems integrated with screen readers for 12 Indian Languages and TTS systems for Mobile Environment for 6 Indian Languages</p> <p>Beta Version of</p>	<p>Dec 2012</p> <p>Feb 2013</p> <p>Feb 2013</p>	<p>Unified CD for Bhartiya Open Office in 22 Indian Languages developed. Uploaded on TDIL Data Centre : <a href="http://www.tdil-dc.in">http://www.tdil-dc.in</a></p> <p>Project under implementation</p>



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						<p>Languages for Agricultural domain</p> <p>Alpha version of NLP Dashboard</p> <p>Alpha version of Prosodically guided Phonetic Engine and Phonetic search engine in Indian Languages.</p>	<p>ASR system for agricultural domain for seven Indian Languages</p> <p>NLP Tool for Indian Languages , Dashboard Development Environment for NLP Applications</p> <p>Voice based Search engines in Indian Languages</p>	<p>Sep 2012</p> <p>June. 2012</p>	<p>Alpha version of Automatic Speech Recognition for agricultural price domain in 6 Indian Languages developed. The systems are being tested and evaluated by C-DAC and NIC Team.</p> <p>Alpha version of the NLP Dashboard developed</p> <p>Project under implementation.</p>

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							Feb 2013		
	<b>ICT Vocational Centres for Skill Creation for the Children with Disabilities in the area of Information Technology.</b>	Setting up additional ICT centres to be identified in consultation with States/ UTs for implementation.			-	Around 100 ICT infrastructures set up at various schools /Vocational Training  Centres provided with special ICT assistive tools and technologies for the enablement of physically challenged blind, low vision and deaf & dumb children. LAN and Internet connectivity is also provided.	Access for the less privileged children in the proximity of these centres to learn ICT skills and enabling them to seek employment and earn livelihoods	March, 2013	101 ICT vocational centres made operational and further identification of more schools with help of States/UTs in progress.
	Establishment of 250 ICT centres in rural Rajasthan	Operationalising ICT centres in Government schools in rural areas in the District of Ajmer				Around 250 ICT centres in the schools under MoU initiated with the State Educational authorities and	The joint project to empower rural students with ICT skills and Internet connectivity to access information pertinent to their	November, 2013	250 ICT rural centres in Govt. schools at Ajmer/Jaipur areas have been given connectivity for delivering online facilities and a data

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		and Jaipur.				ERNET India.	career and was provided with Internet and ICT/ computer lab facilities.		centre/NoC has also been established at Ajmer.
	Prototyping a Virtual Scalable E-Infrastructure based Educational Services for Schools	Carrying out Educational Cloud based implementation with Govt. KVS Schools in Delhi, Bangalore and Chennai.				Proof of Concept (PoC) pilot test bed infrastructure, R&D of system level services, and hosted educational applications.	Avail and quantify Techno-economic benefits of cloud model for schools, migrate to IT generic approach of the cloud and expose test bed to international research efforts.	March, 2014	KVSNet project tie up for the selection of 18 KV schools and initial survey/study of tech. requirements completed & procurement process for implementation of the cloud set up have been in progress.
	Establishment of the Bio-IT collaborative facility at Institute of Bio-Informatics	Setting up Bio-IT Research and Training facility and creation of professional manpower in Bio-IT field, R&D in				Next phase of setting up of the Ganit lab. in PPP model with private sector consortium to carry on the research, training programme in the area of genome	Entrepreneurs & skills development in Bio-IT in the country.	March, 2015	The Bio-IT research and training facility has been set up at IBAB, Bangalore. Research and training activities are in progress. The centre is now preparing a

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	Applied Bio-technology (IBAB), Bangalore.	Bio-IT area.				sequencing, DNA and molecular biology.			detailed technical proposal for next phase to commercialize with GoI/GoK bridge support.
6	<b>Facilitation of setting up of Integrated Townships (E-Infrastructure)</b>	Facilitation by providing a transparent and an investment friendly policy of IT Investment Regions (ITIRs) projects for IT/ ITeS units in the States/ UTs.	-	0.10	-	Information Technology Investment Regions (ITIRs) to set up progressively in different States/UTs and cater to an estimated requirement equated to an area of 1660 sq.kms of built up space by 2022 for IT/ITeS & Electronic Hardware Manufacturing sector.	ITIRs proposed to promote investments and make the country a hub for both domestic and exports market, reap the benefits of costing, networking and efficiency through common support infrastructure and services, boost manufacturing efficiency, augment exports and	Long term impact over 25-35 years.	Continuation from XI to XIIth Plan period is proposed, and ITIR proposals from the States of Karnataka, Odisha and AP under due processes for CCEA approval.

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							generate employment. Decongesting the existing cities through dispersed modern townships in suburban and Tier II & III cities in the country.		
7	<b>Cyber Security (incl. CERT-In, IT Act)</b>	• Security Policy, compliance & assurance	-	45.20 (includes 3.00 Cr. for NER)	-	• An enabling mechanism for achieving conformance with provisions of IT Act, statutes and other policy initiatives of the Government and regulatory bodies. Improvement in security posture of organisations and enhancement in the ability of IT systems and	• Implementation of cyber security Crisis Management Plan (CMP) and security best practices in Central Govt. Ministries/ Deptt. as well as States/UT	• Ongoing. • Status of compliance to be ascertained at periodic intervals.	• Govt. and critical sector organizations are implementing the security best practices in accordance with ISO 27001 standard and as per the advice issued by CERT-In. Services of CERT-In empanelled IT security auditors

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						networks to resist cyber attacks.	<ul style="list-style-type: none"> <li>• Sectoral Crisis Management Plans to be developed and implemented</li> </ul>	<ul style="list-style-type: none"> <li>• Crisis Management Plan for countering cyber terrorism has been updated and released. Central Government ministries/depts and states &amp; UTs are preparing their own sectoral CMPs for implementation.</li> </ul> <p>Enabling Workshops for critical sectors, States and UTs were conducted.</p>	

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							<ul style="list-style-type: none"> <li>• Verification of security posture, compliance and preparedness of Government and critical sector organisations</li> </ul>	<p>Ongoing.</p> <ul style="list-style-type: none"> <li>• Periodic cyber security drills to be conducted to verify security posture and compliance.</li> <li>• Empanelment activities to be conducted at periodic intervals</li> <li>• Audit of IT infrastructure of key organisations</li> </ul>	<ul style="list-style-type: none"> <li>• Cyber security drills to assess preparedness of organisations to withstand cyber attacks were organized. A national drill was held on 19<sup>th</sup> and 20<sup>th</sup> December 2012.</li> <li>• Twenty Two auditors were empanelled for audit of IT infrastructure from cyber security point of view after a fresh round of skill assessment.</li> <li>• Eight IT Security audits of critical sector organizations have been carried out by CERT-In.</li> </ul>

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		<ul style="list-style-type: none"> <li>Security awareness, skill development and training</li> </ul>				<ul style="list-style-type: none"> <li>Trained manpower to implement techniques to secure IT infrastructure.</li> </ul>	<ul style="list-style-type: none"> <li>Cyber Security conformity Assessment Infrastructure (Product, Process &amp; People)</li> <li>Enhancement of IT product security testing facility and infrastructure.</li> <li>Specific training facilities, training modules and content development</li> </ul>	<ul style="list-style-type: none"> <li>Ongoing, Upgradation of existing test facility and enhancement of skills and capabilities</li> <li>Ongoing Training programmes on specific topics of cyber</li> </ul>	<ul style="list-style-type: none"> <li>Test / evaluation of IT products is being undertaken to validate the products as well as the capability of testing upto EAL 4. Testing and evaluation of products in the category of “Boundary protection devices” was completed for one Router at EAL3 &amp; one Data Diode at EAL4.</li> <li>Cyber Forensics Training Labs. have been established in the States of Manipur, Nagaland, Mizoram, Assam,</li> </ul>



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						<ul style="list-style-type: none"> <li>Trained manpower to collect, analyse and process digital evidence.</li> </ul> <p>Pre trained manpower will help in securing cyber space and check cyber crimes.</p>	<ul style="list-style-type: none"> <li>Awareness and training programmes to facilitate information sharing to deal with crisis situations.</li> </ul>	security to be organised	<p>Meghalaya, Tripura, Sikkim and Jammu &amp; Kashmir to train the Police Officers facilitating Cyber Crime investigation. 1500 Police Officers in these states have also been trained for Seizure, acquisition, analysis and presentation of digital evidence.</p> <p>In addition, 2 Cyber Forensics Training Labs have been setup at Pune and Kolkata and 2 more are being set up at Mumbai and Bangalore. About 7000 Police and officials have been trained using these</p>

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								<p>Labs.</p> <p>Two Awareness Workshops have been organised at Chandigarh and Gandhinagar and wherein a total 262 Police Officers attended.</p> <p>Twenty Six awareness training programs have been conducted by CERT-In covering Cyber crimes, Cloud Security, Penetration testing, Cyber Forensics, Web Application Security, Securing Critical Information Infrastructure, Advanced</p>	

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								<p>Information Security, DDoS Attacks &amp; Mitigation, Threat &amp; Vulnerability Management, Windows Security, Wireless Security, Advanced Application Security, Information Security Policy, Compliance &amp; Auditing and MS SQL Database Security. Around 820 persons trained.</p> <p>Multimedia based Multi-lingual brochures / pamphlets for Cyber Security awareness focusing on threats from Personal Computers, USB Devises, Mobile</p>	

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									<p>and Smart Phones, Modems and Credit / Debit / ATM Cards have been designed and action is in progress to provide security tips to the end users at the time of purchase of these products.</p> <p>Ten Public dissemination programs conducted to create awareness on Cyber Security in English and Hindi on Rajya Sabha, Lok Sabha and AIR.</p>

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		<ul style="list-style-type: none"> <li>Security R&amp;D for indigenous skills &amp; capabilities</li> </ul>				<ul style="list-style-type: none"> <li>Development /enhancement of skills and expertise in areas of cyber security</li> </ul>	<p>Research and development of indigenous cyber security solutions, proof of concepts and prototypes and skilled manpower in areas of cyber security including</p> <ul style="list-style-type: none"> <li>Crypto Analysis &amp; Research</li> <li>Network &amp; System Security - Mobile</li> <li>Monitoring &amp; Forensics</li> <li>Vulnerability assessment and remediation</li> </ul>	<ul style="list-style-type: none"> <li>Ongoing. Formulation of proposals with special focus on cryptanalysis, malware research, mobile security, cloud security, advanced cyber forensics &amp; evaluation of proposals by Working Group</li> <li>Periodic review of individual projects</li> </ul>	<ul style="list-style-type: none"> <li>Working Group constituted with experts from Academic/ R&amp;D organisations, Govt and user organisations provided advisory support for implementation of R&amp;D programme.</li> </ul> <p>R&amp;D proposals were formulated in the areas of (i) Cyber Security Early Warning Framework using core Internet Protocols BGP and DNS, (ii) Speech based Multi-Level Person Authentication System, (iii) Integer Based Homomorphic</p>

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Sr. No.	Name of schemes/ Programmes	Objective/ Outcome	Outlay 2012-13 (Rupees in crore)			Quantifiable Deliverables /Physical Outputs	Projected Outcomes	Processes/ Timelines	Status as on 31.03.2013
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							through sponsored projects at recognized R&D organisations.	<p>Encryption Techniques for Data Privacy and Auditing in Cloud Computing, (iv) Three-dimensional Face Recognition techniques based on range images and (v) Wireless Sensor Network Security. Eleven projects were initiated.</p> <ul style="list-style-type: none"> <li>• Twenty five projects were reviewed by the respective Project Review and Steering Committee (PRSG) projects and follow up actions have been taken.</li> </ul>	

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		<ul style="list-style-type: none"> <li>• Security incident – early warning and response (CERT-In)</li> </ul>				<ul style="list-style-type: none"> <li>• Enhancing the security of communications and information infrastructure in the country</li> </ul>	<ul style="list-style-type: none"> <li>• Rapid response, resolution and recovery</li> <li>• Security incident prediction, prevention and protection</li> <li>• Security assurance</li> <li>• Enhancement of security cooperation</li> </ul>	<ul style="list-style-type: none"> <li>• Ongoing.</li> <li>• Upgradation of CERT-In facilities and capabilities for crisis management and emergency response.</li> <li>• Comprehensive threat assessment and attack mitigation by means of net traffic analysis and deployment of honey pots.</li> <li>• Realtime Malware tracking and analysis with special focus on virus/bots</li> <li>• Real time</li> </ul>	<p>Facility for correlation of logs from various security appliances such as Firewall, IPS etc has been implemented to achieve effective threat detection and mitigation capabilities.</p> <p>The disaster recovery centre for CERT-In is nearing completion at CDAC Bangalore.</p> <p>Procurement of hardware is in progress.</p> <p>Around 16078 cyber security incidents reported, tracked and handled. The types of</p>

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							<p>response to cyber security incidents</p> <p>incidents handled are Phishing, Network scanning/probing, Malicious code, Denial of Service, Email hacking, Website intrusions and website defacements.</p> <p>Around 5435062 Bot infected and the same were informed to ISPs for mitigation.</p> <p>Around 16643 Website defacements and 1807 Open Proxy Servers tracked.</p> <p>• Alerts, Advisories and vulnerability Notes</p>	<p>9 Security alerts, 42 Security Advisories and 97 Security Notes</p>	



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		<ul style="list-style-type: none"> <li>Enabling Legal framework for supporting E-Commerce and E-Governance activities</li> </ul>				<ul style="list-style-type: none"> <li>A legal framework, which will instill confidence of the users and investors in the area of Information Technology in the country, will be in place.</li> </ul>	<ul style="list-style-type: none"> <li>Legal Framework that can effectively support growth of E-Commerce and E-Governance in the country.</li> <li>Operation and maintenance of Cyber Appellate Tribunal</li> </ul>	<ul style="list-style-type: none"> <li>Ongoing,</li> <li>Profiling the requirements for enhancing the provisions of the existing legal framework</li> <li>Ongoing</li> <li>Awareness programmes for</li> </ul>	<p>Vulnerability notes issued.</p> <p>Security Bulletins covering various cyber security issues, intrusion trends and defence mechanisms are being published every month.</p> <p>Cyber Regulation Advisory Committee has been reconstituted and notified under Section 88 of this Act.</p> <p>Organized meetings with Secretary (IT) of the respective State Governments and Police officials</p>

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								adjudicating officers to be organized  Disposal off Appeals relating to the Cyber Law	dealing with cyber crime cases reviewed the current status of disposal of cases in the States and identified follow-up actions for expediting the disposal of cases.
8	<b>Promotion of Electronics / IT Hardware Manufacturing</b>	Promotion of Electronics Hardware Manufacturing in the country.	-	5.00	-	(a) Further action for setting up of Semiconductor Wafer Fabs for manufacture of Chips in India based upon the recommendation of Empowered committee and Government approvals	(a) to (h) of Quantifiable Deliverables: These would encourage investment in Electronics/ IT hardware manufacturing sector, leading to growth of production of Electronics hardware industry from 11.2% (estimated for 2011-12) to 14% in 2012-13.	March, 2013	(a) The Empowered Committee (EC) was constituted vide this Deptt's O.M no. 8 (76) / 2010-IPHW dated 9 <sup>th</sup> May 2011. Empowered Committee has had meetings on 30.5.2011, 5.8.2011, 9.11.2011, 9.12.2011, 19.1.2012, 20.3.2012, 16.7.2012, 25.9.2012, 30.10.12, 24.12.12, 16&18.1.13 and 6.2.13. An advertisement for Expression of Interest

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									(EOI) was made in leading national and international print media and websites. The preliminary responses received were considered and additional information as per a template was sought from 16 applicants with the objective of ascertaining their seriousness and viability of their proposal. Based on the information received and presentations made, it has been decided that business proposals be invited from the leading technology providers. M/s Accenture has been identified as the Global Consulting firm to prepare the

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									template and appraise the detailed proposals received. The template for detailed business proposal was issued to the applicants on 5.4.2012. The responses have been examined in consonance with the observations of Empowered Committee. EC submitted its Report containing the recommendations and a draft Cabinet Note was circulated on 22.3.2013 for Inter-Ministerial Consultations. Hence, the action is completed.

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						b) To take action for obtaining approval for introduction of modified Special Incentive Package Scheme to bridge the disability cost in manufacturing of electronics hardware in the country.	At least two clusters would be initiated.		(b) The Cabinet in its meeting dated 12 <sup>th</sup> July, 2012 has approved the proposal of this Department on policy of Modified Special Incentive Package (M-SIPS) to offset disability and attract investments in Electronics System Design and Manufacturing (ESDM) Industries. The Policy has been notified on 27 <sup>th</sup> July, 2012 and published in the official Gazette of India. The guidelines for operationalising the scheme have been announced on 7 <sup>th</sup> November 2012 after consultation with Ministry of finance; D/o Commerce; DIPP. An Appraisal Committee as per

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									para. No. 6.1 of notification has been constituted and nodal officer for M-SIPS as per guidelines have also been notified. An EoI has been floated for engagement of an agency to act as PMU for appraisal of applications. The amount of application fee has been notified. The applicatons seeking incentives under the Scheme worth investment of Rs. 1800 crore appx. were received and examined. The first meeting of the Appraisal Committee held on 22-3-13. The Technical Evaluation Committee for automotive electronics vertical have been constituted. E-Portal

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						<p>c) To take action for obtaining approval regarding setting up of Electronics Manufacturing Clusters to promote ecosystem for promotion of manufacturing of electronics hardware in the country.</p>	<p>At least three major investment proposals (FDI) would be attracted in ESDM sector.</p>	<p>for receiving and interface was developed and launched in the month of March 2013. Action completed.</p> <p>(c) The cabinet in its meeting held on 3<sup>rd</sup> July 2012 approved the proposal of this Department on Electronics Manufacturing Clusters (EMC) Scheme to provide world-class infrastructure for attracting investments in the Electronics Systems Design and Manufacturing (ESDM) Sector. After the approval of the Cabinet note, the notification of the policy had been issued on 22<sup>nd</sup> October 2012.</p>	

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									<p>The guidelines for Brownfield clusters have been issued in the month January 2013. The guidelines for formation of Special Purpose Vehicle (SPV) were sent to Deptt. of Economic Affairs for seeking concurrence. The EMC guidelines for operationalisation of Scheme have been finalized and submitted for obtaining approval. The applications for setting of EMCs have been received and are under examination. The notification for declaration of 5 Brownfield Clusters were issued in March 2013. Action completed.</p>



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						d) To obtain in-principle approval of Planning Commission on the Detailed Project Report prepared for setting up of a dedicated “Electronics Development Fund” for promotion of Innovation, R&D, Indian IPR and development of Indian Microprocessor and thereafter obtaining approval of EFC.			(d) EDF is proposed to be set up as a “Fund of Funds” to create need based “Daughter Funds” for various innovation and manufacturing stages, with an outlay of Rs.10,000 crore. All funds are proposed to be professionally managed. A Detailed Project Report (DPR) for setting up of EDF has been prepared in consultation with the Industry and other stakeholders and sent to Planning Commission for seeking in-principle approval. Planning Commission asked to keep in abeyance till finalization of XIIth Plan. In the meanwhile, a proposal

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						e) Developing and mandating Standards for Electronics Goods and Setting up of a Programme Management Unit (PMU) for supporting the same.		<p>was setting up of a fund was received from M/s. Walden Intl, which is under consideration of a committee headed by Principal Scientific Advisor , which has held three meeting so far. Therefore, action on part of DeitY completed.</p> <p>(e) The “Electronics and Information Technology Goods (Requirements for Compulsory Registration) Order, 2012” was notified through the Gazette of India on 03 Oct. 2012 under the provision of compulsory Registration Scheme of BIS Act, 1986. This order becomes effective from 03</p>	

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									<p>April 2013. The order necessitates creation of institutional mechanism for developing and mandating standards and certification for electronic products to strengthen Quality Assessment infrastructure nationwide in accordance with enshrined objective of the NPE 2012. With this perspective in the background, Department of Electronics and Information Technology (DeitY) has initiated the process for creating a suitable framework in the country for ensuring compliance of Electronics &amp; IT goods to Standards of</p>

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						f) Implementation of Communications and Brand Building (C&BB) Campaign for the promotion of Electronics System Design and Manufacturing (ESDM) industry of		<p>Safety. The Order mandates compulsory registration of 15 categories of electronics item and initiatives were taken to create awareness; recognition of test laboratories by Bureau of Indian Standards for testing of electronic products. The Technical Advisory Committee was constituted and meetings were held to resolve technical issues.</p> <p>(f) A Communications and Brand Building Campaign for promotion of ESDM sector in India has been launched with the objective to build “Made in India” as leading global brand</p>	

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						<p>India: As a part of this project, the Electronics e-Newsletter would continue to disseminate the information regarding ESDM; State level Workshops; specific verticals related workshops and outreach activities in academia pertaining to ESDM would be promoted. Further, activities envisaged in the Campaign would be implemented based upon the outcome of Communications Need Assessment study and requisite approvals.</p>			<p>in ESDM and increasing awareness regarding initiatives taken by Government to promote investments in ESDM sector. As a part of the Campaign, State level workshops, specific verticals related workshops and outreach activities in academia pertaining to ESDM are being promoted. Action was initiated to conduct a Communications Need Assessment Study to help orchestrate the Campaign and M/s. Nielsen was awarded to do this study regarding promotion of investment in ESDM sector.</p> <p><b>State Level Workshops</b></p>

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								<ul style="list-style-type: none"> <li>• State Level Workshop for Andhra Pradesh by CII, April 25-26, 2012</li> <li>• State Level Workshop for Orissa by ISA, July 18, 2012</li> <li>• State Level Workshop for Uttar Pradesh by ELCINA, Oct 9, 2012</li> <li>• State Level Workshop for Puducherry by MAIT</li> <li>• State Level Workshop for Gujarat by ICA, Jan 5, 2013</li> </ul> <p><b>Support to Industry Workshops</b></p> <ul style="list-style-type: none"> <li>• IPCA Expo by IPCA, July 25-27, 2012</li> <li>• Strategic Electronics Summit, by ELCINA-ISA, July 26, 2012</li> <li>• Source India 2012 in December</li> </ul>	

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								<ul style="list-style-type: none"> <li>• ELCINA EFY Feb 2013</li> <li>• ISA Vision Summit Feb 2013</li> <li>• ISA's Workshop on ESDM Supply Chain</li> </ul> <p><b>Workshops in Colleges</b> 24 Workshops have been conducted in 9 states</p> <p><b>Logo support to Workshops</b></p> <ul style="list-style-type: none"> <li>• LED Expo2012</li> <li>• Electronica Prodcutronica, Sept 11-13, 2012</li> <li>• National Telecom Awards, by CMAI, May 11, 2012</li> <li>• Focus 2012 by ASSOCHAM, May 4, 2012</li> <li>• International Conference on Indian</li> </ul>	

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								<p>Defence by ASSOCHAM, March 30, 2012</p> <ul style="list-style-type: none"> <li>• ICOMM 2012 by CMAI, Sept 14-15, 2012</li> </ul> <p>Round Table with MCIT on Dec 14, 2012 by MAIT</p> <p>Electronics e-Newsletter was started in Nov 2011 and 12 issues have been brought out since then. It now reached out to 28000+ people.</p> <p><b>Design of Collaterals for Communication with International Companies</b></p> <p>Approval for award of work to IIT, new Delhi for design collaterals for Communication with</p>	



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								<p>prospective investors has been received for designing and development of Collaterals.</p> <p><b>Other outreach</b></p> <ul style="list-style-type: none"> <li>• Special Issue of Yojna on ESDM was brought out on ESDM had also been sent to 10,000 colleges Two Articles were publications being brought out by ITA Taiwan</li> <li>• RFP process for developing Posters on ESDM had been sent to all stakeholders in Govt. and Industry is underway and will be completed. An effort is on to seek suggestions from all stakeholders to get a Catch-line developed</li> </ul>	

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						g) Finalization of Guidelines for implementation of the Policy for Preference to domestically manufactured electronic goods in procurement due to security considerations and in Government Procurement.		for ESDM sector is underway.  (g) The Cabinet in its meeting dated 2 <sup>nd</sup> February 2012 has approved the proposal of this Department on policy of Preference to domestically manufactured electronic goods in procurement of those electronics products which have security implications of the Country and in Government procurement for its own use consistent with our World Trade Organisation (WTO) commitments. The graded value-addition norm for electronic products to qualify as being	

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									domestically manufactured has been prescribed. The objective to attract investment and promote electronics and IT hardware manufacturing in the country having value addition. The policy was notified on 10th February 2012 and published in Official Gazette on 15.2.2012. The draft guidelines for operationalizing the policy were finalized and sent to Ministry of Finance for seeking concurrence on 20.09.2012. Deptt. of Telecommunication has issued notification dated 5/10/12 for providing preference to domestically manufactured

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						h) Study for Assessment of Skill Gap and Capacity Building in ESDM Sector.		telecom products in Government Procurement. DeitY has issued notification dated 17/12/12; 22-1-13 and 12-3-13 for providing preference to domestically manufactured Desktop PCs, Dot Matrix Printers, Laptop PCs, Tablet PCs and Smart Card in Government Procurement.	(h) For causing the study, an EoI was floated in February 2012 and the RFP was issued in December 2012. The technical and financial bids were evaluated and submitted for obtaining approval of competent authority for award of study.

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9	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 (incl. 14.00 Cr for NER)	-	<p>1. Up gradation of Test &amp; Calibration facilities to cater to state-of-the-art products with emerging technologies</p> <p>2. Revenue target realization.</p> <p>3. Upgrade s/w test facilities for e-Governance application</p> <p>4. To up-grade Biometric device Certification Scheme</p> <p>5. Upgrade testing and Auditing facilities for security of Network, systems, applications</p>	<p>Allocated budget will be spent for up gradation of test and calibration facility to meet the demand industry.</p> <p>Revenue of Rs. 50 crores approx. likely to be generated.</p> <p>S/w Test Tools for “Mission critical Project” like defense/space will be procured.</p> <p>Bio-Metric devices to be certified.</p> <p>Tools and skills to be upgraded for better services</p>	<p>March, 2013</p> <p>March, 2013</p> <p>March, 2013</p> <p>March, 2013</p> <p>March, 2013</p>	<p>Test &amp; Calibration infrastructure in different stages of procurement</p> <p>Labs earned Rs. 49.8 Crores.</p> <p>Procurement action completed</p> <p>Certification Scheme is in operation. 32 bio-metric devices approved</p> <p>Completed.</p>

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						and websites  6. Progress of construction activity of STQC Building at Noida.  7. Human Resource Development by conducting DOEACC 'O' & 'A' level courses in NE region.	Construction activity of first phase to be completed.  SC/ST/OBC/women / weaker section of society and unemployed youth of NE region will be benefited in Computer field.	March, 2013  March, 2013	Approval of competent authority is being sought for handing over the project to CPWD  On-going activity
10	<b>Technology Development Council (including ITRA)</b>	<b>IT for Industrial Applications</b>	-	79.00  (incl. 7.00 Cr for NER)	-	<b>National Mission on Power Electronics Technology (NaMPET) Phase II:</b>  • Initiation of two exploratory projects.	Enhancement of R&D infrastructure and design capability in the area of Power Electronics Technology contributing to design-led Electronics Hardware	April, 2012	

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							manufacturing.		
		To strengthen local base for R&D/ application in Electronics and IT in the field of Industrial Electronics, Agriculture and related areas.				• Initiation of two technology development/ demonstration projects		July, 2012	
						• Holding of 3 Short-term Courses.		Sept, 2012 Nov., 2012 Jan., 2013	
						• First National Workshop Academic Meet.		Oct.2012	
						<b>Automation System Technology Center (ASTeC)</b>			
					Completion of remaining development work including two demonstration projects at industrial sites and take TOT related activities for the developed technologies in ASTeC Project.	Demonstration and availability of cost effective solutions of Automation Technologies to Indian user and manufacturing industries.	Sept., 2012	Completed	

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						<b>Application of Electronics for Agriculture &amp; Environment (e-AGRIEN)</b>			
						Completion of development and field trials of two technologies developed.	Enhancement of R&D infrastructure, design capability and demonstration on application of electronics for agriculture and environment.	Sept. 2012	Completed
						Organisation of International Conference on Sensing Technologies.		Dec., 2012	
						<b>Intelligent Transportation System (ITS)</b>			
						• Conduct second National Workshop	Demonstration and availability of cost effective IT	July, 2012	Conducted at IIT, Madras



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						on ITS	solutions for the road transportation sector.		
						<ul style="list-style-type: none"> <li>• Completion of field trials of Wireless Traffic Control System, Intelligent Parking Lot Management System and Red light Violation System.</li> </ul>	Sept., 2012		
						<ul style="list-style-type: none"> <li>• To complete the development work and field testing/ demonstration of remaining four technologies and progress TOT related activities.</li> </ul>	March, 2013		
		<p><b>Information Technology in Emerging Areas</b></p> <p>To promote</p>				Projects on Application Development and research involving Ubiquitous	Enhancement of research and application development in the area of Ubiquitous	March, 2014	The second phase of National Ubiquitous Computing research Initiative has been initiated in C-DAC.

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		research & foster development in the Emerging areas of IT such as Ubiquitous computing - Free & Open Source Software (FOSS) -Bioinformatics -Perception Engg. Etc.				Computing will be taken up in two areas: <ul style="list-style-type: none"> <li>• Agriculture &amp; healthcare</li> <li>• Collaborative research in the field of Smart Grid, Intelligent Home &amp; Rural healthcare</li> </ul> <p>Research publications, patents, technology demonstration are the outputs</p>	Computing.		3 Indo-US projects on ubiquitous computing have been initiated.
						<b>Free &amp; Open Source Software (FOSS):</b> <ul style="list-style-type: none"> <li>• Initiate development of Component based OS</li> </ul>	Proliferation of Free & Open Source Software (FOSS), application development and contributing to growth of FOSS	March 2014	A new project titled “Development of Self-aware Service Oriented Component based Operating System” has been initiated jointly at IIT-Madras and

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						<ul style="list-style-type: none"> <li>• Training, GCC compiler improvements and applications on Android platform.</li> <li>• Introduction of BOSS in CBSE schools for training and courseware development to study, explore and develop multicore processors</li> </ul>		<p>C-DAC</p> <p>A project “Hardware interfacing for Android based devices” initiated at ICFOSS, Kerala.</p> <p>Project ongoing</p>	
						Open Source based Simulator development to study, explore and develop multicore processors.	Contribute to better understanding of multicore processor architecture.	March, 2014	Project ongoing

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						Three Centres of Excellence established to provide Human Resource Development in Bioinformatics and promote research in drug discovery applications.	Provide ICT support to develop software tools, algorithms database with applications in Bioinformatics.	Sep., 2012	Achieved
						A software tool would be developed for complete genome analysis with applications in drug discovery applications.		Oct. 2012	
						5 Agri Bioinformatics Centres established would build up and host databases for usage by crop scientist/ Agri bio-infotmaticians.		December 2013	In Progress
						Development of Algorithms & high end computational		April 2014	In Progress

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						<p>tools including databases for analyzing genomes and proteomes.</p> <p>All software tools, databases, algorithms developed in above initiatives would be hosted as open source for free access by scientific community and also would be published in national and international research journals.</p>			
						<p>Application development in Perception Engg. in following areas:</p> <ul style="list-style-type: none"> <li>- Security applications</li> <li>- Assisted/enhanced Living</li> <li>- Tele presence for</li> </ul>	<p>Understanding functions related to human perception and its applications leading to algorithm development for usage in computer Science</p>	April 2016	In Progress

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						distance education.			
						Finite Element Model for Human model to be developed for use in Impact, Textile and Medical Applications.	Development of Computer based Human Body Model in the Indian context.	April 2014	In Progress
						Prototype Development of a very low power consumable device to monitor transportation and storage of sensitive items like Blood bag and medicines.	Technology Development for societal needs.	March, 2013	In Progress
		<b>High Performance Computing</b>  Promote R&D in High Performance Computing, Cloud Computing, Mobile Computing, Green Computing and Digital Preservation				High fidelity computational design of engineering systems on HPC platforms.  <ul style="list-style-type: none"> <li>• Computation of Multi-Phase Flows and Aero acoustics.</li> <li>• Real-Time Sign Language</li> </ul>	Enhanced R&D capabilities in High Performance Computing, Green Computing and Digital Preservation.	March, 2015	Progressing

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		Technologies and their Applications				Computational Algorithms. <ul style="list-style-type: none"> <li>• Nonconforming Spectral Element Methods for Elliptic Interface Problems.</li> <li>• Computational Analysis of Neutrophil Chemotaxis in Response to Multiple Cues.</li> <li>• Hybrid CPU/GPU-CUDA Parallel Algorithms for Algebraic Problems.</li> </ul>			
						Centre of Excellence for Digital Preservation (ongoing). <ul style="list-style-type: none"> <li>• Standards for Digital preservation.</li> <li>• Preservation of E-district data, E-courts data,</li> </ul>		March, 2014	Progressing

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						Government records and Cultural Heritage records.			
						ICT for smart buildings with low carbon emissions (ongoing) <ul style="list-style-type: none"> <li>• ZigBee enabled Devices for energy measurement and flow monitors.</li> <li>• ZigBee enabled Temperature, Humidity and Air quality interfaces.</li> <li>• ZigBee enabled Controllers and Routers.</li> <li>• ZigBee enabled building automation network.</li> </ul>	July, 2013	Progressing	



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		<b>Promotion of Innovation &amp; Intellectual Property Rights (IPR)</b>				The ongoing Technology Incubation & Development of the Entrepreneur (TIDE) scheme would support 27 institutes of higher learning for incubation of 80 technology start-up companies.	Promotion of innovation in ICTE by supporting incubation activities and nurturing of entrepreneurs.	March, 2014	10 new TIDE centres were supported. The scheme is in progress.
						Multiplier Grant scheme (MGS) for fostering collaborative research between academia & Industries would be continued. The activities in this regard are as below: - Appraisal of projects  - Development of a MGS Portal  IPR facilitation	Promotion of collaborative research between academic/R&D institution and industry.  Fostering IPR	March, 2013	In progress  One Proposal recommended.

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						<p>support to DeitY Societies and Grantee Institutions through filing of 125 IPRs</p> <p>Implementing SIP-EIT Scheme to provide support to SMEs for filing International Patent -5 cases to be processed</p>	<p>ecosystem in ICT sector by way of providing facilitation services, awareness creation and development of requisite tools and databases.</p>	<p>March, 2013</p> <p>March, 2013</p>	<p>In progress.</p> <p>Extension for scheme under process</p>
						<p>Creating IPR awareness in E&amp;IT sector through</p> <ul style="list-style-type: none"> <li>• 20 IPR clinics/ Seminars.</li> <li>• Customization of WIPO's Multimedia tool "IP Panorama" for Indian SMEs.</li> <li>• Development of Multimedia</li> </ul>		<p>March, 2013</p> <p>March, 2013</p> <p>March, 2013</p>	<p>In progress</p>

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						course for IP teaching			
						Initiation of New projects for augmenting IPR infrastructure through ICT technologies such as IP exchange of IPRs, Establishment of Prior Art Search Centers & Development of Digital Rights management tools	March, 2013	In progress	
		<b>Setting up of Bio-IT research and training facility IPR and entrepreneurship development.</b>				Research and training facility, IPR (0-5) and entrepreneurship development (5-10), Trained manpower (100) development.	Availability of advanced bio-informaticians for clinical genomics research and applications, emerging job opportunities.	This is a 5 year duration project initiated in March 2010.	

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11	<b>Micro-electronics and Nano-technology Development Programme</b>	To establish nanoelectronics & 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.	-	100.00 (includes Rs. 5.00 Cr. for NER)	-	2 nano-electronics projects will be initiated.	It would enable creation of a strong R&D base in microelectronics and nanoelectronics in the country	March 2013	One large Project “Nano-Fabrication Prototyping Facility for SMEs and start-ups for MEMs/ NEMs at IIT Bombay” initiated to encourage and support start-up companies and SMEs for product development and commercialization. One small project initiated for the development of grapheme based gas sensor at Sikkim Manipal Institute of Technology in North Eastern region.

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						2 microelectronics projects will be initiated.		<p>A project initiated at Tezpur University for setting up of MEMS fabrication facility and impart training for fabrication of MEMS devices to researchers and students both in-house and nearby institutes and research organizations.</p> <p>A study proposal initiated for technical evaluation of various processor architectures available today and preparation of a detailed proposal for setting up a resource centre for design and development of microprocessor.</p>	

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		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				Bringing into force relevant Sections of Semiconductor Integrated Circuits Layout-Design Act.  Registration of layout designs of integrated circuits.  Under the project “Specialised Human Resource	Prevent infringement of IP of semiconductor integrated circuits and also to promote semiconductor integrated circuits layout-design.	April 2012- March 2013	Action taken to bring-into-force Section 93 & 94 of the SICLD Act. Actions pursued for Gazette notification of Convention Countries under Semiconductor Integrated Circuits Layout-Design Act 2000. Draft notification forwarded to Ministry of Law & Justice, Govt. of India, for vetting.  Registrar for SICLDR has been appointed on temporary basis (as additional responsibility) and recruitment of the other staffs is under process.  Trained 60 specialised manpower under

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						Development in IC Layout-Design” 30 specialised manpower in IC layout-Design (M.Sc.) and PG Diploma Course would be trained.			M.Sc. (one semester) IC layout-design course. Applications for 1 <sup>st</sup> batch invited for admission in P.G Diploma Course in IC Layout-Design course under the project.
12	<b>Convergence, Communication Broadband and Strategic Electronics</b>	To undertake R&D in Convergence, Communication & Broadband Technologies and Strategic Electronics  The outcome of R&D projects will result in establishing capability in emerging	-	25.00  (Incl. 2.00 Cr for NER)	-	Initiation of 20-25 projects in development/application of the next generation wired /wireless communication & broadband technologies such as SDR, Cognitive Radio, MIMO, OFDM, Wi-Fi, WiMAX, WSN, UWB, TETRA, Broadband on Power		On an average 6 projects in quarter are proposed to be initiated. The projects are generally of 1-3 years duration.	Eighteen new project proposals were approved and are being implemented in the following areas:  -Next Generation Communication, SDR & Cognitive Radio including white spaces, 60 GHz Wireless Network, MIMO / OFDM, TETRA, WiMAX, Green Wireless Mesh Network Applications: Intelligent transport systems, landslide

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		<p>technologies bringing economic benefits and e-inclusion, safety, security and improved quality of life.</p> <p>The R&amp;D will lead to excellence in state-of-art technologies, creation of patents, support productionisation and cost effective deployment for both domestic and international markets.</p>				<p>Line, NGN &amp; projects in applications for disaster management, safety, security, surveillance and robotic systems.</p> <p>To arrive at specifications for users suiting to Indian conditions, demonstration and testing of new products and technologies developed.</p> <p>Execution of MoUs and Transfer of Technology (ToTs)</p>			<p>detection, gas detection, underwater detection, 6LoWPAN)</p> <p>- Broadband Technologies: Smart antenna &amp; broadband antenna, RF MEMS, Multimedia over IP</p> <p>- Content based network, mobile value added applications, DTH multilingual subtitling</p> <p>- ICT applications in strategic sector: ST radar &amp; advanced robotics, amateur radio digital connectivity.</p> <p>There are 42 ongoing projects that are under implementation and are being monitored by respective PRSGs.</p>



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13	<b>Media Lab Asia</b>	To undertake and facilitate Research, Development and deployment activities	-	11.30 (incl. 3.00 Cr for NER)	3.00	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 Apr – Sept 2012 2 projects will be initiated during Oct 2012 – Mar 2013	<b>Project Initiated:</b> 1. Development & Deployment of Mobile based Agro Advisory System in North East India (m4AgriNEI) 2. Deployment of ICT in 50 schools in the state of Mizoram 3. Development & Deployment of District Level Integrated e-Solution for Health (DIneSH) 4. Development & Deployment of Healthpedia- a collaborative encyclopedia portal for Health & Healthcare
						5 projects will be completed		The projects will be completed as per	<b>Project Completed:</b> 1. Development

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								<p>schedule.</p> <p>of models for use of ICT to improve social infrastructure &amp; public interaction for the emerging knowledge based society and integrated rural development for enhancing livelihood security (Grameen Gyan Kendra)</p> <p>2. Digital Library of e-Text, Braille, Large Print &amp; Audio Content for Visually Impaired students at graduate &amp; post graduate level &amp; competitive examinations</p> <p>3. Deployment of Punarjjani <sup>TM</sup> (ICT based assessment tool for MR children) in 100 schools</p> <p>4. Chanderi</p>	

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									Integrated ICT for Development Programme for making Chanderi weaving cluster, an ICT enabled Community with integrated overall development of artisans & their socio-economic empowerment 5. Deployment of ICT in 50 schools in the state of Mizoram
14	<b>Components &amp; Materials Development Programme</b>	<ul style="list-style-type: none"> <li>To support infrastructure development and R&amp;D and technology development projects for the development of Electronic Materials at C-MET</li> </ul>	0.60	25.00 (incl. 1.00 Cr for NER)	15.50	<ul style="list-style-type: none"> <li>To initiate new projects on solar cells including hybrid, based on CBD technique, &amp; organic &amp; nano composites based photovoltaic and also on the areas of nano oxide based aromatic gas sensors,</li> </ul>	<ul style="list-style-type: none"> <li>To develop suitable alternative materials for green energy source</li> <li>To sustain the RoHS Testing Lab</li> <li>To develop materials for EMI shielding, optoelectronic micro-photoconductor</li> </ul>	April 2012	Projects: Solar cells based on quantum dots and organic semiconductors: Hybrid devices at IACS, Kolkata, Sustainability of RoHS testing laboratory, CMET, Hyderabad electromagnetic

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						sustainability of RoHS testing lab, electromagnetic interference shielding polymer, optoelectronic micro-photoconductor devices	devices		interference shielding polymer, optoelectronic micro-photoconductor devices at Mahatma Gandhi University, Kerala had been initiated
		<ul style="list-style-type: none"> <li>To support development and initiatives to eradicate the issues related to electronics products affecting the environment</li> </ul>				<ul style="list-style-type: none"> <li>To successfully complete the on-going projects on broadband EMI shielding, carbon aerocapacitor, hybrid solar cells, environmentally sound methods for recovery of metals from PCB, piezoelectric multilayer actuatormicro valve, pilot production of <i>Nano-PZT</i> compositions &amp; piezoceramic</li> </ul>	<ul style="list-style-type: none"> <li>To develop the aerogel capacitor</li> <li>To develop Piezoelectric Multilayer Actuator for MEMS based Micro valve</li> <li>To develop Broadband EMI shielding materials using Magneto-dielectric Nanoparticles</li> <li>To develop alternative source of energy</li> <li>To explore the</li> </ul>	March 2013	<ul style="list-style-type: none"> <li>Though progress was satisfactory, one year extension was given for two projects, viz, hybrid solar cells &amp; environmentally sound methods for recovery of metals from PCB to complete the desired targets.</li> </ul>

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						components, polymer based chemical sensor, flexible thin film transistors, <i>value added products from WEEE plastic</i> , prototypes aprons, glass sheets and curtains from lead free x-ray absorbing materials	environmental friendly recycling technology for Printed circuit boards •To develop technology for WEEE plastics •To develop flexible transistor •To develop lead free x-ray absorbing apron		
		• To nurture photonic technologies relevant in IT and optical communication as well as develop technologies in the broader application areas of Photonics through sponsored R & D projects.				• Consolidation of work carried out in the Biophotonics area.	Multi-institutional Work biophotonics for Health care	June 2012	Completed
						• Optical fiber based Strain and Temperature sensing.	Developing technology for High Power Fiber laser by nanoparticles	Sept. 2012	Completed
						• Solid State Lighting area – Blue OLED development work.	Dev of Silica on Silicon Technology for Opto electronic devices	Dec. 2012	Completed

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						<ul style="list-style-type: none"> <li>Innovative light extraction technology initial analysis.</li> </ul>	Dev of Wave-guides using rare earth doped glass systems	March 2013	Completed
						<ul style="list-style-type: none"> <li>UV LED using MBE design work.</li> </ul>	Evolution of Green Photonics technology	March 2013	On-going
						<ul style="list-style-type: none"> <li>Manpower Development based on Photonic Research Fellowship</li> </ul>	Developing of a resource base of personnel trained to carry out advanced research in Photonics	Sept. 2012	3 <sup>rd</sup> batch trained. 2 <sup>nd</sup> photonics conclave held at IIT(M), Chennai on 12.12.12. Project is on-going
						<ul style="list-style-type: none"> <li>Further work in Photonics including on Manpower development</li> </ul>	To initiate new projects	March 2013	2 new projects on fibre lasers and fibre sensors are under consideration for initiation.
	<b>C-MET</b>	<ul style="list-style-type: none"> <li>To support R &amp; D</li> </ul>				To continue the core programme in the	<ul style="list-style-type: none"> <li>Process for Integrated Glass-</li> </ul>	March 2013	<ul style="list-style-type: none"> <li>New batch of cryocoolers with a</li> </ul>

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		projects for the development of Electronic Materials				<p>following areas:</p> <ul style="list-style-type: none"> <li>• Integrated Electronics &amp; 3D Nano-scale Packaging</li> <li>• Nano scale Materials and Composites for Myriad Applications</li> <li>• Ultra High Purity Materials(Metals, Alloys&amp; Refractory Materials) and Compound Semiconductors</li> <li>• E-waste management</li> <li>• NABL accredited facilities</li> <li>• Materials for Renewable Energy</li> <li>• Actuators and Sensors</li> </ul>	<p>Ceramic Packaging</p> <ul style="list-style-type: none"> <li>• Generation of Nano-powders, Nanocomposite &amp; Quantum dots of metals/semiconductors/ for Electronics Technology and allied applications</li> <li>• Process technology /Pilot plant scale production of ultrapure metals</li> <li>• Process for renewable energy material</li> <li>• Process/technology for sensors and actuators</li> </ul>		<p>cold tip at the expander side of the device is being planned. It is proposed to connect a metal part to the expander section for better heat removal.</p> <ul style="list-style-type: none"> <li>• Based on the shrinkage calculations, the post fire screens for the top layer of ‘g-switch’ was designed and sent for screen fabrication.</li> <li>• Indigenously developed microwave circuit boards withstood up to 500 W compared to a targeted power handling capability of</li> </ul>

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								300 W. <ul style="list-style-type: none"> <li>• 350 gms of Nano Aluminum powder was submitted to the HEMRL, Pune for their trials run.</li> <li>• N-doped TiO<sub>2</sub> synthesized using Sol-gel method and characterized using UV-Visible spectroscopy</li> <li>• Prepared Graphene – PDMS nanocomposites .</li> <li>• Preparation of formulation with commercially available colour guard (Henkel) &amp; Bi<sub>2</sub>S<sub>3</sub> glass nanocomposite at optimized</li> </ul>	



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								conditions is completed. Optimization of the viscosity, adherence and thickness is in progress.	
								<ul style="list-style-type: none"> <li>• Directional freezing and purification experiment on 3<sup>rd</sup> batch of 5N pure gallium completed.</li> <li>• 6H and 4H SiC wafers have been studied for micro-pipes through KOH etching and microscopic observation at DMRL.</li> <li>• Solvent extraction experiments are continued on aqua regia and nitric acid</li> </ul>	

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								<p>dissolved PCBs for the separation of Au, Cu, Ag, Pd and Pt with LIX – 64 and TBP solvent by varying concentrations of PCBs dissolved solution to optimize the conditions for extractions.</p> <ul style="list-style-type: none"> <li>• Eleven numbers of mobile phones of different brands available in Indian grey market have been analyzed at nearly 11 locations in the mobile phone circuit. Majority of them are found to be not in compliance with RoHS directive</li> </ul>	



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						Creation of facility for cancer treatment at four hospitals	Deployment of Linear Accelerator machines for cancer treatment	March 2013	<p>some of the issues regarding finalisation of MoU. ToT terms are being worked out by SAMEER in consultation with the industry partner and on finalisation will be approved by the competent authority in DeitY for signing of agreement.</p> <p>PRSG reviewed the progress of the project in December 2012. The Siddharth 3 Linac machine is ready to be dispatched to Indore hospital and Siddharth 4, meant for hospitals at Amaravati is in the final integration stage. Siddharth 5 and Siddharth 6 are meant for ACTREC Mumbai and Vadamalayan Hospital Madurai are also getting integrated</p>

**CHAPTER – IV**  
**REVIEW OF PAST PERFORMANCE (2012-13 – up to 31.03.2013)**

Sr. No.	Name of schemes/ Programmes	Objective/ Outcome	Outlay 2012-13 (Rupees in crore)			Quantifiable Deliverables /Physical Outputs	Projected Outcomes	Processes/ Timelines	Status as on 31.03.2013
			Non-Plan	Plan Budget	Compl EBR				
						Launching of new projects in identified thrust areas	Initiation of new R&D projects in the area of Medical electronics & Telemedicine	March 2013	and tested at SAMEER, Navi Mumbai Site preparation at Amaravati, Indore and Madurai hospitals are in progress and deployment is subject to hospital readiness and necessary clearance is required from AERB for commissioning of the system.  Two new projects have been initiated (i) Design and Development of a mobile device based open-source tele-consultation system and (ii) Setting up of Medical Electronics Lab at NIELIT, Agartala.

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Sr. No.	Name of schemes/ Programmes	Objective/ Outcome	Outlay 2012-13 (Rupees in crore)			Quantifiable Deliverables /Physical Outputs	Projected Outcomes	Processes/ Timelines	Status as on 31.03.2013
			Non-Plan	Plan Budget	Compl EBR				
16	<b>IT for Masses (Gender SC,ST)</b>	Empowerment of Women and Development of SC / ST using ICT	-	16.94  (Includes Rs. 2.00 Cr. for NER)	-	To conceive and formulate projects for empowerment of Women and development of SC / ST.	Capacity building of Women, SC, ST through ICT – training and infrastructure creation across different States / UTs	New projects by March, 2013	<p><b><u>New Project initiated</u></b></p> <ul style="list-style-type: none"> <li>• IT infrastructure creation and capacity building in IT tools of Scheduled Tribes (ST) candidates of Madhya Pradesh</li> <li>• Capacity building of SC &amp; ST students of North Orissa University &amp; its affiliated colleges in IT tools in Odisha</li> <li>• Capacity building for the upliftment of 2000 Scheduled Tribes (ST) candidates of Union Territory of Lakshadweep</li> </ul>

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Sr. No.	Name of schemes/ Programmes	Objective/ Outcome	Outlay 2012-13 (Rupees in crore)			Quantifiable Deliverables /Physical Outputs	Projected Outcomes	Processes/ Timelines	Status as on 31.03.2013
			Non-Plan	Plan Budget	Compl EBR				
17	<b>OTHERS</b>	Sectt. Economic Services	31.30	43.67	-	To meet running expenditure of the Secretariat and Plan Schemes	To run office smoothly		
		Foreign Trade	3.10	-	-	CST reimbursement of STPI units	Export Promotion		
		Exhibitions	0.80	-	-	To organise exhibitions abroad for promotion of Trade	Trade Promotion		
		Others (Seminars/ Workshops)	0.50	-	-	To organise seminars/ workshops for development of electronics in IT	Promotion of Electronics and IT-ITeS Industry		