

**CHAPTER-IV**

Sl. NO.	Name of Scheme/ Programme	Objective Outcome	Outlay 2013-14 (Rs. In Crore)			Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/ Time Basis	Status as on March, 2014
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1	<b>Electronic Governance (e-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 reliable mechanisms. To realize the vision of NeGP, the Department of Electronics and	-	700.00 (Incl. 70.00 Cr for NER)	-	<p><b><u>Standards for e-Governance</u></b></p> <ul style="list-style-type: none"> <li>• Publishing of Localization Guidelines</li> <li>• Notification of Best practices and Standard document for preservation of e-records (Digital Preservation)</li> <li>• Publishing of Release and Change Management for Standards</li> <li>• Publishing of Interoperability Framework for e-Governance (IFEG)</li> <li>• Publishing of Framework on adoption of OSS</li> <li>• Completion of domain MDDS for Education, Urban Development, Agriculture, Panchayati Raj &amp; Health initiated and Drinking water and sanitation</li> <li>• Organize 5 workshops</li> </ul>	<ul style="list-style-type: none"> <li>• Document on Guidelines for Localization</li> <li>• Document on Digital Preservation Standards and Best practices</li> <li>• Release and Change Management document</li> <li>• IFEG document</li> <li>• OSS Framework document</li> <li>• Domain MDDS documents for these domains</li> <li>• 5 workshops on MDDS/ OSS/ IFEG/ Standards</li> </ul>	<ul style="list-style-type: none"> <li>• 31 Mar 14</li> </ul>	<p>Done Published</p> <p>Published</p> <p>Work in progress</p> <p>Review of final document.</p> <p>Put up to MOCIT for approval.</p> <p>In progress.</p>

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		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, policies & 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				on MDDS/ OSS/ IFEG/ Standards			
						<p><b><u>State Portal (SP), State Service Delivery Gateway (SSDG) &amp; Electronic Forms</u></b></p> <ul style="list-style-type: none"> <li>• DPR approved for Chandigarh, Daman &amp; Diu and Dadra Nagar Haveli. Currently, total proposal approved for 33 states/UTs out of 35.</li> <li>• RFP floated for the selection of implementing agency (IA) for Chandigarh, Daman &amp; Diu and Dadra Nagar Haveli. Currently 31 States/UTs have floated the RFP.</li> <li>• Chandigarh, Odisha, Daman &amp; Diu and Dadra Nagar Haveli are in the process signing contract with the selected IA.</li> <li>• West Bengal, Kerala, Punjab, Haryana and Andaman Nicobar are in</li> </ul>	<ul style="list-style-type: none"> <li>• Provide easy, anywhere and anytime access to Government services (both informational &amp; transactional).</li> <li>• Enable integrated service delivery by               <ul style="list-style-type: none"> <li>(a) Online/Offline filing of application at CSCs/self through State Portals.</li> <li>(b) Intelligent routing of forms to the destination field office by SSDG.</li> </ul> </li> <li>• Enable assured</li> </ul>	<ul style="list-style-type: none"> <li>• Proposal approved for 33 States/ UTs</li> <li>• 31 States/ UTs have floated the RFP for the selection of the Implementing Agency for the project.</li> <li>• 4 States/UTs are in</li> </ul>	

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		programme, a robust e-infrastructure is being created to facilitate deployment of ICT solutions by various Departments and state Governments. Significant progress has been made in the implementation of the core infrastructure components and also in most of the Mission Mode Projects.				<p>the advance stage of implementation.</p> <ul style="list-style-type: none"> <li>• Andhra Pradesh, Arunachal Pradesh, Bihar, Chhattisgarh, Madhya Pradesh, Rajasthan and Tripura have gone live.</li> </ul> <p>Currently, total of 19 states/UTs have gone live.</p>	<p>electronic delivery, acknowledgement and status tracking of application.</p> <ul style="list-style-type: none"> <li>• Reducing number of visits of citizens for availing the services.</li> <li>• Reducing administrative burden and service fulfilment time &amp; costs for the Government, Citizens &amp; Businesses.</li> <li>• Reducing direct interaction of citizen with the Government and encourage 'e'-interaction and more efficient communication</li> </ul>	<p>process signing Contract with the selected Agency</p> <p>8 States/UTs are in the implementation phase.</p> <p>19 States have gone live</p>	

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							<p>through portal.</p> <ul style="list-style-type: none"> <li>e-Repository of Government Information and services with a standard-based messaging switch and provide seamless interoperability and exchange of data across departments.</li> </ul> <p>MIS reporting at the State level.</p>		
						<p><b><u>e-District</u></b> e-District Mission Mode Project proposes integrated and seamless delivery of citizen services by district administration through automation of workflow, backend digitization, integration and process redesign across participating departments for providing services to</p>	<ul style="list-style-type: none"> <li>Selection of Agencies for all States/ UTs.</li> </ul> <p>Implementation of e-District in at least</p>	<p>By March 2014, e-District project will be implemented in 200 additional districts.</p>	<p><b><u>e-District</u></b> • e-District services have been launched in 196 additional districts in the FY13-14. Overall, eDistrict services launched in 335 districts of India.</p> <ul style="list-style-type: none"> <li>34 states/UTs have signed the contract with the selected</li> </ul>

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						the citizens. The project covers high volume of Citizen Centric Services at district and sub district level. The e-District MMP was approved by the CCI on 20th April 2011.	200 additional districts.		<p>State Project Management Unit (SPMU) Agencies.</p> <ul style="list-style-type: none"> <li>• 100% District e-Governance Societies (DeGS) have been formed in 24 states / UTs and DeGS has been formed in total 574 districts across the country.</li> <li>• 256 e-District Project Managers (eDPMs) have been selected across 16 states/UTs</li> <li>• 18 states/UTs have selected the System Integrators for state-wide rollout of the project.</li> <li>• To monitor and track the progress of the project, DeitY has launched the Project Management Information System (PMIS). The capacity building to use PMIS is under progress for</li> </ul>

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								states/UTs.	
						<p>Common Services Centres (CSCs)</p> <p>The Government had earlier approved a Scheme for establishing 100,000+ CSCs, primarily in rural areas of the country. These Centres are envisaged to be broadband Internet enabled and are presently providing various available government and private services at the doorstep of the citizens. The Scheme is to be implemented in Public Private Partnership mode The Scheme had been approved at a total cost of Rs 5742 crore with Government of India contribution at Rs. 856 crore and State Governments' contribution being Rs 793 crore. The balance fund is being invested by the private sector which is a key stakeholder in the</p>	<p>To operationalise 100% of the planned CSCs across 35 States / UTs</p> <p>Complete integration of 40,329 CSC like kiosks with the CSC Scheme.</p> <p>2500 VSATs sanctioned for North East and other difficult areas would be fully operational</p> <p>Special thrust would also be laid for completing training of women beneficiaries on the BCC course of NIELIT</p> <p>Increasing the outreach of CSCs for financial inclusion</p>	<p>The projected deliverables would be achieved by March 2014</p>	<p>The CSCs are ICT enabled kiosks with broadband connectivity to provide various Governments, private and social services at the doorstep of the citizen. 134,542 CSCs have been rolled out covering 35 states/UTs.</p>

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						CSC eco-system known as Service Centre Agencies (SCAs).			
						<b>Establishment of SWAN</b> <ul style="list-style-type: none"> <li>• Approval of proposals for state/UT SWAN and operationalization of SWAN in states/UTs</li> <li>• Integration using NKN</li> <li>• Utilization of bandwidth of existing link capacity.</li> <li>• Monitoring of performance</li> </ul>		<ul style="list-style-type: none"> <li>• SWAN proposals from 34 states/UTs have been approved and the SWANs have been made operational in 33 states. The states are utilizing the core infrastructure of SWAN for providing the closed user connectivity to various government offices in the state. These offices access their applications through SWAN in secured environment hosted at State Data Centers (SDCs).</li> <li>• 29 states/UTs have been integrated using NKN.</li> <li>• 24 states/UTs are utilizing more than 60% of bandwidth of</li> </ul>	

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								<p>the existing link capacity.</p> <ul style="list-style-type: none"> <li>To monitor the performance of SWANs, the Department has mandated positioning of Third Party Auditors (TPAs) in the states/UTs. As on date, 27 states have empanelled the TPAs for monitoring the performance of the SWANs in the respective states/UTs. Remaining states/UTs are in the process of empanelment of TPA.</li> </ul>	
						<p><b><u>Awareness &amp; Communication</u></b></p> <ul style="list-style-type: none"> <li>During 2013-14, Phase II of the Rural Outreach campaign was completed in 9 states (Himachal Pradesh, Assam, Meghalaya,</li> </ul>	<ul style="list-style-type: none"> <li>The CSC Outreach programme completed covering 2625 CSCs. Approx 1.5 Lakh People</li> </ul>	Completed	

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						<p>Manipur, Tripura, Uttar Pradesh Kerala, Jharkhand, Maharashtra) aiming to cover 1,282 CSCs. till March 2014.</p> <ul style="list-style-type: none"> <li>• E-Participation Policy has been approved by Hon'ble MCIT in February 2014 &amp; due for Gazette Notification</li> <li>• 6 new TV Commercials on NeGP and CSC were produced; the first burst of new Television Commercials was done in January-February 2014 across 59 leading television channels and Doordarshan.</li> <li>• 4 new films on NeGP</li> </ul>	<p>participated in the campaign and got information about various e-Services being delivered through CSCs.</p> <ul style="list-style-type: none"> <li>• Policy Approved Currently under implementation. The objective of this policy is to seek greater public participation in Policies and Projects of Government.</li> <li>• Mass awareness about NeGP &amp; brand building</li> </ul>		<p>Completed</p> <p>Completed</p> <p>Completed</p>

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						<p>and CSC were completed and shown at various outreach locations</p> <ul style="list-style-type: none"> <li>• Cinema advertisements released in and around outreach activity locations in regional languages.</li> <li>• Radio campaign was done through AIR and private FM channels to support outreach campaign.</li> <li>• Shooting for additional 32 episodes of NeGP TV series was completed in March 2014</li> <li>• University Workshops</li> </ul>	<ul style="list-style-type: none"> <li>• 5 University workshops held (Bihar, Maharashtra, Uttarakhand, Arunachal Pradesh)</li> </ul>		<p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p>
						<ul style="list-style-type: none"> <li>• Institutional/financial</li> </ul>			

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						support to workshops and seminars organized by external agencies  • State Consultation workshops  17th National e-Governance Conference was held in January 2014 in Kochi, Kerala	& Gujarat)  • 6 workshops / seminars and 4 exhibitions supported  8 workshops held at Bhubneswar, Panaji, Agartala, Nagpur, Mumbai Itanagar, Silvasa, Kavirati Island		Completed  Completed  Completed
						<u>Assessment of e-Governance Projects:</u>  • Impact Assessment of India Portal Project  • Impact Assessment of i-Geo Approach Project  • Baseline Study on e-Panchayat Project  • Baseline Study on PDS	The Study Design Document and Survey Questionnaire completed  • The Study Design Document and Survey Questionnaire		Completed  Completed

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						<p>Online Project</p> <ul style="list-style-type: none"> <li>• Online Assessment of Common Services Centres</li> <li>e-Readiness Assessment report- 2011-12</li> </ul>	<p>completed</p> <ul style="list-style-type: none"> <li>• The draft report submitted</li> <li>• Data collection completed</li> <li>• Data collection completed</li> <li>Report Approved</li> </ul>		<p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p>
						<p><b><u>e-Pramaan</u></b></p> <ul style="list-style-type: none"> <li>• e-Pramaan Project proposal approved by Hon'ble Minister, C&amp;IT.</li> <li>• Workshop having participants from global organizations in e-Authentication space held at DeitY.</li> <li>• e-Pramaan Standards to be formulated under the guidance of authentication experts from Industry,</li> </ul>	<p><b>For Citizen:</b></p> <ul style="list-style-type: none"> <li>• Single Window Access</li> <li>• Secure Communication</li> <li>• Strong Authentication</li> <li>• Mutual Authentication for websites</li> </ul>	<p>By March 2014, the following deliverables will be completed:</p> <ul style="list-style-type: none"> <li>• Identification</li> </ul>	<ul style="list-style-type: none"> <li>• Identification and formulation of draft e-authentication standards completed</li> <li>• Design of pluggable components/modules for Level 1&amp; 2 e-authentication as specified in the e-Pramaan Framework completed.</li> <li>• ASA services for</li> </ul>

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						<p>Academia, NASSCOM, IDRBT, UIDAI, NIC, DeitY etc.</p> <ul style="list-style-type: none"> <li>• AUA &amp; ASA requirement analysis and design refinements</li> <li>• Designing of e-Pramaan website</li> </ul>	<ul style="list-style-type: none"> <li>• For Departments</li> <li>• Saving cost, time and other resources</li> <li>• Obviates the need of departments being AUA</li> <li>• Provide ASA services</li> <li>• Centralized AUA/ASA service – so implementation issues, reporting, fraud monitoring etc will be handled at one place</li> <li>• Authentication as a Service</li> <li>• Based on well accepted industry standards and protocols</li> <li>• Service can go for customized</li> </ul>	<p>and formulation of draft e-authentication standards completed.</p> <ul style="list-style-type: none"> <li>• Design of pluggable components/modules for Level 1&amp; 2 e-authentication as specified in the e-Pramaan Framework completed.</li> </ul>	<p>providing Aadhaar based authentication completed on staging.</p> <ul style="list-style-type: none"> <li>• Beta Version of e-Pramaan website launched</li> </ul>

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							authentication chaining  • ASA services for providing Aadhaar based authentication completed on staging.  • Beta Version of e-Pramaan website launched		
						<u><b>Capacity Building</b></u> • Formation of State e-Governance Mission Teams	• SeMTs in place across 35 states/UTs	• 43 personnel (in total 261) have joined SeMTs across all states/UTs. One orientation programme has been conducted and 50 SeMT & NeGD personnel have undergone the	

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						<ul style="list-style-type: none"> <li>• Leadership Meets</li> <li>• Specialized Training Programs</li> <li>• Thematic Workshops</li> </ul>	<ul style="list-style-type: none"> <li>• Leadership meets for Ministers/MLAs and senior government functionaries.</li> <li>• STeP consist of courses in e-Governance specifically in the areas like government process reengineering, business models &amp; PPP, project management, regulatory framework for e-Governance, technology management etc</li> <li>• As an initiative towards capacity building of SeMT members and officials of state/central</li> </ul>		<p>training.</p> <ul style="list-style-type: none"> <li>• 2 leadership meets have been conducted</li> <li>• Under STeP, 82 programs covering 24 states/ UTs and 1,831 participants have been conducted by NISG</li> <li>• 4 successful workshops have been conducted so far – capacity building &amp; change management, technology</li> </ul>

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						<p>government in the implementation of NeGP, sharing of best practices and to create a platform for cross-learning, NeGD has been conducting domain specific thematic workshops.</p> <ul style="list-style-type: none"> <li>• Chief Information Officers (CIO) program</li> <li>• Knowledge Management</li> </ul>	<p>government in the implementation of NeGP, sharing of best practices and to create a platform for cross-learning, NeGD has been conducting domain specific thematic workshops.</p> <ul style="list-style-type: none"> <li>• Under the national roll out of training programme for Chief Information Officers, eight training programmes were approved by DeitY.</li> <li>• It is an active forum for discussions, information sharing and announcements and is engaging the community of SeMTs, e-Governance practitioners</li> </ul>		<p>management, RFP toolkit and detailed project report (DPR) preparation &amp; evaluation.</p> <ul style="list-style-type: none"> <li>• 6 programmes have been conducted covering 138 participants from central line ministries and states</li> <li>• an active community having more than 800 members is currently being managed at <a href="http://www.mynegp.com">www.mynegp.com</a>.</li> </ul>

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						Next Phase of Capacity Building Scheme	(government officers) and NeGD employees.  The Empowered Committee for CB scheme during its 8th meeting held on 8th May 2013 recommended preparation of detailed project report (DPR) for CB scheme phase-II.		DPR has been prepared
						<b><u>World Bank assisted “India: e-Delivery of Public Services” Project</u></b> <ul style="list-style-type: none"> <li>A total of 44 projects with a total outlay of Rs. 706.38 crore have been considered under e-Bharat scheme for funding assistance.</li> <li>A total of 20 projects amounting to Rs. 240.39 crore have been approved. Funds for 20 projects amounting to Rs. 59.92 crore have been released to the implementing agencies in various states/UTs.</li> </ul> In addition to above, <ul style="list-style-type: none"> <li>DeitY has identified some</li> </ul>	DeitY proposes to use this support to fund various e-governance initiatives of GoI and States/UTs in the broad areas of policies, human resources, technology, project development and projects.	Rs. 100 Cr was to be released for some of the approved projects by end of March 2014.  However,	<ul style="list-style-type: none"> <li>Rs. 59.92 crore was released for 20 approved projects.</li> </ul> The entire fund of Rs. 700 Cr for WB DPL has been committed.

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						<p>projects which may be considered as national initiatives as they are cross cutting in nature such as Project for Election Commission of India, Integrated Dairy Management System of Tamil Nadu and e-Legislature project for Andhra Pradesh &amp; Himachal Pradesh.</p> <ul style="list-style-type: none"> <li>• DeitY has also identified projects which may be considered as pilot projects for national Mission Mode Projects in the respective domains, namely e-HMS &amp; Supply Chain Management for Drug warehouse, Andhra Pradesh and e-Gov initiatives for Education Department, Himachal Pradesh.</li> <li>• DeitY has approved 5 projects under rapid replication initiative, namely, ePASS, XLN, eHospital, eHRMS, Mee Seva.</li> <li>• Some projects have been identified to be developed as products which will be made</li> </ul>		RE was reduced to Rs. 60 crore.	

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						available on the e-Gov Appstore for implementation in other states. These projects are: a. Integrated Weavers Management System (IWMS), Tamil Nadu b. Mobile-Based Services for Department of Tourism, Goa c. Integrated Dairy Management System of Tamil Nadu d. e-Legislature project for Andhra Pradesh & Himachal Pradesh.			
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 towards providing	-	830.00 (incl. 83.00 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, 2014	Security of NICNET has been enhanced in Ministries /Bhawans, States and training has also been provided.
						<b>Certifying Authority</b>			

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		good Governance to the people.				<ul style="list-style-type: none"> <li>Enhancing the use of DSC in G2G domain</li> <li>Online Directory Service for DSCs &amp; CRLs</li> <li>Time Stamping Service</li> </ul>	<p>DSC Subscribers will be serviced by the new RA offices in NIC State Centres to enable better support and reduced delivery time.</p> <p>Augmentation of CA Services to cater to specialized application of e-governance and Enhance the security features of e-Governance applications.</p> <p>To cater to the Time Stamping requirement of DSC users</p>	<p>March, 2014</p> <p>March, 2014</p>	<p>Eight new RA Offices have been set up at Andhra Pradesh &amp; Uttrakhand.</p> <p>Approx. 60,000 DSC's have been issued to central Govt. employees during the year</p> <p>Time Server procurement is in progress and Time Stamping S/w is being deployed for testing</p>

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						<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 Distribution (e-PDS)</li> <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 Registration</li> </ul>	<p>Faster services to citizen Ease of use for end-users Better management</p> <p>Resulting in better e-Governance</p>	<p>March, 2014</p>	<p>These applications have been implemented approximately in 962 locations across the country.</p>

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						<ul style="list-style-type: none"> <li>• Land Records</li> <li>• Data.Gov</li> <li>• Apps Store</li> <li>• e-Transactions, etc.</li> </ul>			
						<p><b>Videoconferencing infrastructure development</b></p> <ul style="list-style-type: none"> <li>• Augmentation of VC facility in States &amp; Districts.</li> <li>• Augmentation of MCU infrastructure at State and NIC-HQ</li> <li>• Expansion of Desktop VC services</li> </ul>	<p>To provide Videoconferencing services to all Central Government and State governments for effective e-governance</p> <p>Additional support infrastructure for Multipoint VC sessions.</p> <p>Providing infrastructure for expansion of Desktop VC systems.</p>	March, 2014	<p>Equipment installed at Uttaranchal districts.</p> <p>In principal approval for procurement of MCU for TN &amp; Assam had been obtained</p> <p>Requirement generated from all NIC users for Webcams &amp;</p>

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								Microphones.	
						<b>Remote Sensing &amp; GIS</b> Multi_Layer GIS Platform & 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, 2014	Spatial Data Infrastructure & National GIS Service Framework for Multi layer GIS for Planning has been created. Data Infrastructure integrating topographic data , different resolution satellite data (Wiff, Awiff, LISS-III, PAN etc.) and resource data related to forest, agriculture, water bodies, wasteland, watersheds, demography, village amenities, transport network, rivers and drainage etc has been created.
						<b>Data Centre</b> <ul style="list-style-type: none"> <li>Establishment of National Data</li> </ul>	To provide robust	March, 2014	NDC, Bhubaneswar establishment is

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						<p>Centre at Bhubaneswar</p> <ul style="list-style-type: none"> <li>• Enablement of cloud computing services at National Data Centre, Delhi.</li> <li>• Upgradation of National Data Centre, Pune.</li> </ul> <p>Upgradation of National Data Centre, Hyderabad.</p>	<p>and scalable infrastructure at National Level for e-governance services.</p>	<p>under process.</p> <p>National Cloud Services launched.</p> <p>NDC, Pune has been upgraded with 1Petabyte of Storage, Enterprise Tape Library, Storage Replicator, Four Socket Servers, Core &amp; Edge level Switching Infrastructure and Virtualization Software.</p> <p>NDC, Hyderabad has been upgraded.</p>	
						<p><b>High Speed Terrestrial Circuits</b> Operationalization of high speed connectivity</p>	<p>To facilitate various Pan-India e-gov.</p>	<p>March, 2014</p>	<p>450 District links have been upgraded</p>

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						capacity and Bandwidth with enough redundancy upto districts. Creation of multiple virtual private network to cater various mega e-gov projects	projects		to 34 Mbps.
						<b>NICNET International Gateway project</b> Gateway Bandwidth will be upgraded.	Enhanced and efficient availability of Internet Services with enough redundancy to run critical services.	March, 2014	NICNET Internet Gateway is already enhanced. New Gateway 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	-	360.00 (incl. 40.00 Cr for NER)	-	The NKN is to inter-connect all knowledge institutions across the country through high speed data communication network to encourage sharing of resources and collaborative research. These would cover about 1500 Institutions comprising of all Universities, Institutions	NKN will facilitate creation, acquisition and sharing of Knowledge resources among the large participating Institutions; collaborative research; countrywide classrooms (CWCR) etc. and help the	End of 2013-14	• 238 links to institutions including 62 links under NMEICT have been provided. A total of <b>1226</b> links to Institutions have been commissioned and made operational so far. This includes <b>336</b> links to

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		speeds of the order of gigabits per second coupled with extremely low latencies; through PoPs in the respective institutions/ organisation.				<p>of Higher Learning, and Research.</p> <p><b><u>FY 2013-14</u></b></p> <p>* Out of Rs. 360 Cr., an amount of Rs. 352.23 Cr has been released which includes Rs. 7.77 cr. as interest adjusted.</p> <p><b>Target for 2013-14</b></p> <ul style="list-style-type: none"> <li>• 200 institutions would be connected to NKN.</li> <li>• Completion of infrastructure work and operationalization of all POPs at State level.</li> <li>• Create various Test-bed infrastructures for research in the field of networks and security.</li> <li>• Facilitating implementation of model projects identified by MPEC and monitoring them on a timely basis.</li> </ul>	country to evolve as Knowledge Society.	<p>institutions under NMEICT, which have been migrated to NKN.</p> <ul style="list-style-type: none"> <li>• NKN connectivity has been extended to SWAN in <b>26</b> States/UTs. These are: Andhra Pradesh, Assam, Arunachal Pradesh, Bihar, Chhattisgarh, Chandigarh (U.T), Delhi, Goa, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Puducherry (U.T), Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh &amp; West Bengal.</li> <li>• NKN connectivity has been extended to SDC in <b>24</b></li> </ul>	

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						<ul style="list-style-type: none"> <li>• Establishment of international R&amp;D connectivity &amp; internet gateways.</li> <li>• International connectivity with other NRENs.</li> <li>• Launch of NKN Services.</li> </ul>		<p>States/UTs are: Andhra Pradesh, Assam, Chhattisgarh, Chandigarh (U.T), Goa, Gujarat, Haryana, Himachal Pradesh, Jammu &amp; Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland Odisha, Puducherry (U.T), Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh &amp; West Bengal.</p> <ul style="list-style-type: none"> <li>• KN is connected with TEIN4. RFP has been released for International NKN PoPs at Singapore, New York, Amsterdam &amp; Geneva</li> </ul>	

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								<ul style="list-style-type: none"> <li>• KN Connectivity has been extended to 289 district links.</li> <li>• KN PoPs are created at Guwahati, Hyderabad, Bangalore, Bhopal, Mumbai, Delhi, Kolkata, Chennai, Gandhinagar, Lucknow, Thiruvananthapuram, Shimla and Jammu. Work under progress for 7 NKN PoPs</li> <li>• launch of NKN products and services such as BitAmbulator, LDAP PaaS (Platform As A Service), Bandwidth Testing Service, OSIR (Open Source IP</li> </ul>	

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								Registrar) and DNS (Domain Name Server) <ul style="list-style-type: none"> <li>• SO 27001 Certification for NKN super Core PoPs has been initiated</li> <li>• KN has conducted a Second National Level Workshop at IISc, Bangalore.</li> </ul>	
4	<b>Manpower Development (incl. Skill Development in IT and IT for Masses)</b>	Development of North - Eastern Region by enhancing the Training/ Education capacity in the IECT Area	-	150.00 (incl. 60.00 Cr. for NER)	-	Upgradation of six existing centres of NIELIT located at Imphal, Aizawl, Guwahati, Shillong, Gangtok, Itanagar to a full-fledged campus with state-of-the-art labs, classrooms, hostels, staff quarters, etc.  Setting up of ten new Extension centres at	The project would result in enhanced capacity in terms of training/education in IECT sector for the youth of North-Eastern Region.  Availability of	May 2017	Land was already available at Imphal, Chuchuyimlang . Land has been allotted by the respective State Governments at Guwahati, Aizawl, Lunglie, Silchar, Jorhat, Kokrajhar for construction of permanent NIELIT

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						<p>Senapati and Churachandpur in Manipur; Dibrugarh, Silchar, Jorhat and Kokrajhar in Assam; Lunglei in Mizoram; Tura in Meghalaya; Tezu &amp; Pasighat in Arunachal Pradesh.</p> <p>Upgradation of two existing Extension centres located at Chuchuyimlang in Nagaland and Tezpur in Assam.</p> <p>Increase in training capacity from 3,080 per year to 14,400 per year from the 5th year onwards.</p>	trained professionals in the IECT area.		campuses. Out of 18 locations, NIELIT is imparting training courses at 13 locations viz. Imphal, Senapati, Churachandpur, Chuchuyimlang, Guwahati, Tezpur, Silchar, Jorhat, Aizawl, Lunglei, Shillong, Gantok & Itanagar.
		Setting up of NIELIT Centre at Agartala (Tripura)				NIELIT Centre at Agartala (Tripura)	Create skilled manpower in the area of IECT.	March 2014	NIELIT Agartala (Tripura) is conducting courses DOEACC 'O' & 'A' level in IT and Hardware, CCC and ITES-BPO. Total 3851 candidates have been trained so far in

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									various long term and short terms courses out of which 2588 belong to SC/ST communities. Construction of permanent NIELIT campus is ongoing on 15 acres of land given by the State Govt. of Tripura free-of-cost.
		Setting up of NIELIT Centre at Ajmer (Rajasthan)				To launch additional training courses from the temporary built up space at Kekri.  To initiate actions for construction of the NIELIT Campus.	Create skilled manpower in the area of IECT	November 2014	The State Government has allotted about 42 acres of land for the project at village Kohda, Tahsil Kekri, Ajmer District. The construction work is in progress covering Academic and Administrative blocks, Hostels for boys and girls, staff quarters etc. Training activities have started from rented premise at Kekri. So far 195 students have been trained/undergoing

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								training. The center has also taken training activities under various sponsored projects by DeitY, MoPR, DGE&T. Center is also coordinating BCC/ CCC exam activities for Rajasthan and Gujarat states.	
		Setting up of NIELIT Patna (Bihar)				Initiation of NIELIT Centre, Patna activities from temporary premises provided by Bihar State Government and initiating action for construction of permanent campus of NIELIT Centre at Patna  To train 1360 candidates in various non-formal and Short-term courses in FY 2013-14.	Create skilled manpower in the area of IECT  Train about 40,000 candidates through direct or indirect mode in five years	October 2017	Project Management Consultant has been finalized. Topographical survey and preparation of master plan completed. Construction of boundary wall underway.  A total of 8242 candidates were trained against the target of 1360 candidates in various non-formal and Short-term courses in

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									FY 2013-14 from temporary premises allotted by the State Government.
		Upgradation and establishment of facilities for NIELIT Kolkata Centre				Construction of NIELIT Kolkata Centre building	Enable NIELIT Kolkata Centre to enhance the output of skilled manpower in the area of IECT and allied areas for making available industry ready professionals.	February, 2014	The construction of the building at Salt Lake Kolkata is presently underway.
		Capacity building in the areas of Electronic Product Design and Production Technology				<p>Launching various formal and non-formal courses</p> <p>Train about 2000 candidates in FY 2013-14</p>	<p>To develop human resource at various levels including Certificate, Diploma, Post Graduate, and Research Professionals with adequate competence levels (Target: 11,515 in five years).</p> <p>Upgrade the competence of working professional in Indian Industries and knowledge/</p>	April 2017	NIELIT Aurangabad has launched M.Tech (Part time) in Electronic product design and B.Tech(Full time), both in affiliation with Dr. B.A.M. University, Aurangabad. The implementing agencies have launched 6 week modular courses in Electronic Product Design, Embedded System Design,

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							skills of faculty of technical institutions.		Electronic Packaging, Wireless Embedded System. Further, a 6 month (full time) Post Graduate Diploma in Electronic Product Design has also been launched.
		Advanced Faculty Training in Emerging Trends of Hardware, Embedded Systems and Information Technology - C-DAC Hyderabad				To impart advanced training through innovative and participative learning-teaching approaches within a project based training framework to 500 engineering faculty members. To conduct ten Workshops/ Seminars on latest technological trends and possible research that can be taken up in IT.	Skilled engineering faculty members with hands-on exposure to industry relevant areas of IECT.  Research Orientation to faculty members who attended the training programs in the area of IECT.	June 2013	A total of 763 faculty members from 25 states in India were trained. Ten(10) One-day Workshops/Seminars were conducted covering latest technological trends and possible research directions in relevant topics.
		Advanced Training for Professionals by ABV-IIITM, Gwalior				Training to unemployed Engineers (Graduates/Post Graduates): Target 600 in two years (FY 2012-14)  Certified Training programme faculty	To provide suitably trained manpower to IT & ITES industry.  To provide employability to young graduates	April 2014	So far five batches of training programmes have been conducted covering 806 students. In addition, 204 faculty members have been trained.

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						members in advanced ICT area: Target 150 in two years (FY 2012-14)			
		Setting up of ICT Academy of Kerala (ICTACT)				To set up an ICT Academy for training of 5000 faculty members of Art, Science, Polytechnics, ITI's and Engineering Colleges and support rollout of mass based HR programmes for graduates	Students would be benefited from the trained faculty members	May 2012  (Project duration to be extended)	ICT Academy of Kerala has been registered as a Section 25 company.
		Scheduled Caste Sub-Plan/ Tribal Sub-Plan				Free training to SC/ST students  Upgradation of NIELIT Centres and setting up of new Extension Centres in the North Eastern Region	Empowerment of SC/ST students  Development of North - Eastern Region by enhancing the Training/ Education capacity in the IECT Area	On yearly basis  May 2017	An amount of Rs. 5.90 crore was released to NIELIT towards reimbursement of training fees in r/o SC/ST students.
	<b>New Schemes under formulation and subject to approvals</b>								
		Scheme for setting up of Electronics and ICT Academies in the States/UTs for faculty				To set up an Electronics and ICT Academy as a unit in IITs, IIITs, NITs, etc., for faculty/ mentor development/ upgradation through active	Improvement in employability of the graduates/diploma holders in various streams	5 years from the date of approval	The draft EFC memo on the scheme was prepared and circulated for obtaining comments of other Ministries

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		development				collaboration of States/UTs in a PPP mode with financial assistance from the Central Government.			/Departments/ Planning Commission. Based on the comments received, the modified Scheme/EFC Memo has been submitted to Planning Commission for seeking 'In Principle Approval'.
		Scheme for Ph.D Fellowship in ESDM and IT Sectors				3000 PhDs for ESDM (1000 Full-time +2000 Part-Time)  3000 PhDs for IT/ITeS (1000 Full-time +2000 Part-Time)  400 Young Faculty Research Fellowship to increase the attractiveness of faculty positions & future enrolment of PhDs	To generate 3000 PhDs for each of ESDM and IT/ITES sectors over a period of 5 years, in order to promote innovation and development of new products in IT/ITES and ESDM sectors	5 years from the date of approval	Cabinet Committee on Economic Affairs (CCEA) has approved the scheme to generate a total of 3000 PhDs (1500 in each of ESDM and IT/ITES sector) with a budget outlay of Rs. 401 crore.
		Scheme for IT Mass Literacy				One e-literate person in 10 lakh households.	To make one person e-literate in each household	December 2013	The scheme was approved with a budget outlay of Rs. 97.02 crore to be

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									implemented over a period of 18 months.
		Scheme for Skill development in ESDM by involving States and UTs				To provide financial assistance for facilitating skill development for 10 lakh persons in ESDM sector by involving States/UTs through PPP model along with industry with the financial assistance from Central Government.	Improvement in employability of the students/unemployed youth,	5 years from the date of approval	The Scheme was notified with a budget outlay of Rs. 113.77 crore. An Empowered Committee was set up to identify and select the States/UTs where the scheme could be launched. The 'Empowered Committee' has recommended the proposals of five States viz. Andhra Pradesh, Jammu & Kashmir, Kerala (for 3 levels only), Punjab and Uttarakhand (for two levels only). The respective States have been informed accordingly.
		Information Security Education & Awareness (ISEA) Project – Phase II				Target for five years: 3.5 lakh students(formal, non-formal), faculty 25,000 Govt. officials	Capacity building in the area of Information security to address the human resource requirement	5 years from the date of approval	The scheme was approved with a budget outlay of Rs. 96.08 crore to be implemented over a

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						Awareness to cover 50% Internet users	in the country. Training of Government personnel and professionals from banking and financial sectors. Creation of mass information security awareness		period of five years w.e.f. 1.4.2014.
		E-learning				Rollout of OLABs in CBSE Schools across the country	<ul style="list-style-type: none"> <li>▪ Setting up of platform for enabling OLABs for online practical science experiments with content aligned to CBSE syllabus for class 9 and 10 for subjects of Physics and Chemistry</li> </ul>	To initiate new project during 2013-14	Project was recommended by Working Group but could not approved during 2013-14
						Roll out and enhancement of Framework for Adaptive Instruction Phase 2	<ul style="list-style-type: none"> <li>▪ To obtain reliable impact assessment of framework to ensure quality and reliability</li> <li>▪ Building CCC course of NIELIT in the framework</li> </ul>	To initiate new project during 2013-14	Project was recommended by Working Group but not approved during 2013-14

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							<ul style="list-style-type: none"> <li>▪ Few training centers to be identified by NIELIT for pilot deployment</li> </ul>		
						<p>Online Labs (OLabs) for school experiments - Phase 2</p> <p>Enhancing OLabs phase 1 experiments for deployment on Android. To be extended for other subject of class 9 and 10. Physics, Chemistry, Biology, Maths for class 11 and 12 will also be covered.</p> <p>Enhancement of the framework for multi-lingual support. M-Learning enhancements to framework to support OLabs on Android tablets.</p>	<p>These 4 projects likely to be approved in 2012-13 and will continue in 2013-14</p>	<p>16 of 20 OLabs phase 1 experiments now work on Aakash. New Labs in Mathematics, Physics, Chemistry, English and Biology includes twelve Biology Labs - beta version at website <a href="http://www.olabs.co.in">http://www.olabs.co.in</a>. Twenty new Physics, Chemistry and Biology experiments in various stages of development. Seven Mathematics Lab has been developed. Internal deployment testing is going on and these lab activity will be available shortly at website after end for beta</p>	

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						Online Assessment and Evaluation System (OAES) for National Level Certification Examinations	Initiation and development of tool for OAES together with pilot deployment.	<p>testing. Exploration for English lab activities is completed, design of English Lab Activity framework started and work started for two Lab Activity. Enhancing the framework for Indian languages support has been completed</p> <p>Key resources for the project have been identified. A total of 88 question papers from all the six subjects under scope has been analysed and tagged appropriately. Broad framework based on Bloom's taxonomy has been finalized for question bank. Prototype of new question types for automated evaluation of programming-type</p>	

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						<p>MedSim – eLearning platform for Medical Simulation</p> <p>To build Medical elearning platform (Medsim) that supports Medical Simulations in two broad areas. Pilot study will be done at two Government Hospital.</p>		<p>questions has been developed. Design of automated evaluation of new question types specific to O-Level examinations is underway.</p> <p>Initial mock-up prototype of the Virtual Patient framework for discussions with doctors and nurses, detailed technical review discussions with students, doctors and faculty at Amrita Institute of Medical Sciences on identification of medical cases to target as virtual patient cases have been done. Technical architecture design reviews of the eLearning platform for Medical Simulation has been</p>	

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						Development of Personalised and Performance based E-Learning tool for existing E-resources	To Estimate the online learners' proficiency. To improve search engine performance in order to increase user (online learners) satisfaction. This will be integrated with Brihaspati LMS, an open source LMS		<p>completed with visit to medical simulation center to learn about various simulation approaches</p> <p>Immediate tasks, which were identified includes - option of enabling a course to use Student profile information is to be added in Brihaspati-3, for questionnaire to be implemented to evaluate the student profile vector, the database schema is to be updated to store the student profile vector. The mechanism to generate the content profile vector for a generated content is to be added to SCORM packager. Understanding for how to generate a SCORM package</p>

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								content consisting of smaller learning objects of multiple varieties, its identification and implementation of tests. For each of the ten courses, making list of learning objects is to be created.	
						Adaptable e-Learning Accessibility Model for the Disabled	<ul style="list-style-type: none"> <li>• Development of Accessible E-Learning Framework</li> <li>• Launch of E-Learning web Portal with the support of local language</li> <li>• Awareness and training programmes and workshops to be organized</li> </ul>	May 2013	New features were added to Adaptable and Accessible e-Learning (A2EL) framework - Stable Product version of this i.e. e-Saadhya was released on 13 <sup>th</sup> Dec. 2013 and final version with multilingual support is planned for release. Activities related to multilingual enablement of the A2EL Framework wherein translation of the tool content to Kannada and Telugu

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								<p>is being done. Hindi translation is already started.</p> <p>Enhancements of Decision Support System (DSS) and training package creation modules are being handled.</p> <p>Beside the above activities installation/upgradation of A2EL software and user hand holding training were carried out at different special schools including National Institute for the mentally Handicapped (NIMH). Awareness Programmes through workshop etc. were conducted where A2EL framework was demonstrated.</p> <p>The tasks related to low level design</p>	

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						<p>Design and Development of Context Aware Mobile assisted Augmented Reality Framework for Learning Environment</p> <ul style="list-style-type: none"> <li>▪ Framework to create augmented reality based e-learning applications for students including design and develop following 3 pilot applications based on the framework:               <ul style="list-style-type: none"> <li>a. Augmented Reality based Board.</li> <li>b. Augmented Reality based book.</li> <li>c. Augmented Reality based game.</li> </ul> </li> <li>▪ To conduct knowledge dissemination program through trainings and workshops.</li> </ul>	Sep. 2014	related to all components of the framework including Augmented Reality Board design, Book design and Game design have been completed. Beside these test plan document, Augmented Reality (AR) Book prototype, registration module and authoring tool module have also been completed. Ongoing activities include development of AR Board with further enhancement, development of framework components, AR Book integration with framework components and testing	
		<b>IT for Masses Programme:</b> Empowerment of	-	-	-	To conceive and formulate projects for empowerment of Women through ICT –	Capacity building of Women, SC, ST through ICT –	12 new projects	<b><u>New Project initiated</u></b>

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		Women and Development of SC / ST using ICT				and development of SC / ST. training and infrastructure creation across different States / UTs	by March, 2014	<ul style="list-style-type: none"> <li>• Development of Bi-lingual multimedia e-Contents / Portal and setting up of Knowledge Kiosk at 11 districts for facilitating entrepreneurship creation amongst Scheduled Castes (SC) - Punjab</li> <li>• e-Inclusion: IT training for Rural Scheduled Caste (SC) Beneficiaries - Uttar Pradesh, West Bengal, Bihar and Andhra Pradesh</li> <li>• e-Inclusion: IT training for Rural Scheduled Tribe (ST) Beneficiaries - Madhya Pradesh, Chhattisgarh, Meghalaya, Mizoram and Jharkhand</li> </ul>	

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								<ul style="list-style-type: none"> <li>e-Inclusion: IT training for Rural Women Beneficiaries - Bihar, Odisha, Madhya Pradesh, Himachal Pradesh and Jammu &amp; Kashmir</li> <li>Training of Women in Delhi for creating women entrepreneurs / Data Entry operators with an exposure to Tally, to promote awareness and to enhance vocational skill in IT and setting up of Programme Monitoring Unit (PMU) for IT for Masses – New Delhi</li> </ul>	
		<b>Internet Proliferation &amp; Governance:</b>				• Demonstration of high-speed traffic over cloud providing end-to-end	Develop, test and validate, deploy, and validate light-trails and	September 2013	All Ethernet backbone, VM(Virtual

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		Virtualized Cloud Computing Infrastructure using Light-trails and Very Fast Switching				<p>services from the application to the physical layer.</p> <ul style="list-style-type: none"> <li>• Creation of a security framework for cloud computing;</li> <li>• Demonstration of virtualization of resources over 100 km fiber;</li> <li>• Study of autonomic two stage control algorithm;</li> <li>• Implementation of security between virtual machines.</li> <li>• Implementation of admission control and of the two stage autonomic control algorithm and services over 8 node test-bed.</li> </ul>	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.		Machine) migratory testing and optical interfaces have been created.
		<b>Design and Development of a Dynamic Firewall Solution</b>				<ul style="list-style-type: none"> <li>• Development of a dynamic firewall</li> <li>• Evolve adaptive mechanisms (behavior model); dynamic firewall rules; algorithms and mechanisms for validation and consistency verification of the dynamic rules</li> </ul>	Design and develop a dynamic firewall that shall provide mechanisms for firewall auto re-configuration, formulation of adaptive rules and ensures the rule and policy consistency.	March 2013 further Extension by six months	Project completed with following outcomes : <ol style="list-style-type: none"> <li>1. Rules governing dynamic firewall is generated</li> <li>2. Verification and validation of rules done.</li> </ol>

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						<ul style="list-style-type: none"> <li>• Re-configuration of the firewall based on</li> </ul>			
		<b>Characterization of UDT for Bulk Data Transfer Applications in High Speed and Wireless Networks</b>				<ul style="list-style-type: none"> <li>• An API to demonstrate secure bulk data Transfer in High Speed and Wireless Networks using UDT as an alternative network protocol for Grid, Cloud and Peer-to-Peer applications.</li> <li>• Evaluating the performance with the identified applications for security enable UDT protocol and Testing on National Knowledge Network fabric.</li> </ul>	Demonstration on usage of UDT for reliable bulk data transfer applications and UDT support for identified applications; Security enabled UDT APIs and Test report providing the performance & throughput details over NKN fabric and last mile wireless networks with Availability of pilot production facility in the organization.	April 2013 extension by six months	Project completed with following outcomes: i. Design and Develop security framework based on UDP ii. Cloud application for sector sphere(Sector-Sphere is a system for distributed data storage, distribution, and processing) iii. Two draft paper for RFC in IETF submitted.
		<b>Global Internet Governance and Advocacy (GIGA)</b>				Bringing out educational courseware on Internet and its Governance aspects. Including fundamental research in human interface technology. The institution will also undertake advocacy	Initiating and conducting fundamental and applied research to State and re-state Legal Systems and Instruments and its interface with Internet Technology	November 2013	<ul style="list-style-type: none"> <li>•The Institute infrastructure was set up in March 2011.</li> <li>•35 research publications</li> <li>•12 International conference and domestic meets.</li> </ul>

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						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.	in every branch of Law Civil, Criminal, Evidential, Fiscal and International.		
		<b>Design and Development of a Cooperative High Performance Traffic Generator for Time-Sensitive Network Analysis (GENESYS)</b>				Development of a Cooperative (PC & 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.	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 CDAC Hyderabad.
		<b>Testing and Deployment of IDN Tools, Maintenance and</b>				Deployment and Integration of the 7 languages approved by ICANN; variant tables	Roll out of domain names in all the major Indian languages	May 2014	PRSG approved One year extension w.e.f 5 <sup>th</sup> May 2014. First Hindi be released in

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		<b>Up-gradation of Policies and Assistance to NIXI – C-DAC Pune</b>				and ABNF's for the remaining 15 languages; IDN policies developed in line with ICANN Creation of tools for prevention of scamming and phishing; alternative scripts, policies, tools like Floating keyboard and fonts etc.		the first phase(Launching the “ <b>भारत</b> ” on August 15, 2014) and subsequently other TLDs could be launched. A browser plug-in to detect possibly phised URL is in its final stage.	
		<b>Establishment of Central Facility for Testing of IPv6 Applications &amp; Equipments – ERNET India, New Delhi</b>				Establishment of a facility by installing different IPv6 enabled equipments for audio, video and data communication and connecting through ERNET's IPv6 enabled backbone network for national and international connectivity.	Feb 2014	Infrastructure for video conferencing ,websight for IPv6,IPv6 tunnel to check protocol,IPv6 DNS and mail server created.	
		<b>A Secure, Scalable and Interoperable Platform for Internet of Things(IOT) Amrita Univ. Kollam</b>				<ul style="list-style-type: none"> <li>•Design and implementation of a language based on asynchronous pi-calculus for programming IoT systems.</li> <li>•Addressing scheme for IoT objects in order to uniquely identify and</li> </ul>	March 2015	A Scalable New IoT Middleware ,Indigenous Gateway have been built.	

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						<p>address them.</p> <ul style="list-style-type: none"> <li>•Middleware communication layer for interfacing incompatible devices, while ensuring that the identity/discovery of any object, communication between objects, and handling of multi-object level triggers initiated by any event raised by a participating object in a secure and controlled fashion.</li> </ul> <p>A multi-channel Real-time Big Data Analytical Engine capable of handling streaming data from multiple channels/domains at the same time process them on the fly to deliver instantaneous decisions</p>			
		<b>Digital Library Initiatives</b> – Digitization / preservation and web enabling of Copyright free data available in				<p>Digitize: - 12-15 Million pages</p> <p>Providing bandwidth connectivity to IISc.</p> <p>Hosting the DLI web site</p>	Strengthen Country's identity by digitally preserving the national heritage and intellectual output	March 2014	<ul style="list-style-type: none"> <li>- Digitized 12.5 Million pages</li> <li>- Connectivity provided to nodal centers</li> <li>- Data hosted on DLI web site</li> </ul>

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		physical form  <b>On-going Projects</b>				for accessing the digitized data		- Converted the tiff data to pdf format 11.5 Million pages	
		<b>New projects</b>				Digitize around 10 Million pages  Digitize, preserve and web enable Indian folklores	Strengthen Country's identity by digitally preserving the national heritage and intellectual output  Educate the children of the age from 7-14 Years through development of folklore	March 2014  No new project initiated  DPR to Digitize, preserve and web enable Indian folklores has been received	
5	<b>Technology Development for Indian Languages</b>	The major objectives of the programme are:  (1) To develop information processing tools to facilitate human machine interaction in Indian languages and to create and	-	35.00 (incl. 1.00 Cr for NER)	-	<b><u>New Projects</u></b> Development of Indian Language to English Machine Translation System for Judicial Domain  Development of Voice based information Access in Indian Languages for Railways / Geospatial information	Machine Translation System for Indian Language to English for Judicial Domain  Speech Recognition engines for voice based web information access	June 2013  Feb 2014	Project being finalized  Project being conceptualized

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		access to multilingual knowledge resources/content. (2) To promote collaborative development of futuristic technologies leading to innovative products and services.				Semantic Web initiative in Indian Languages	Proof of Concept model of Semantic Web for Indian Languages	Feb 2014	Project being Conceptualized
						Research & Development for, promotion and proliferation of Localization in official languages, Dev. of localization tools showcasing Laboratory etc.	Initiation of the project Centre of Excellence of Localization in Indian Languages (CoE-LIL)	Dec 2013	Project being Conceptualized
						Mobile Web standardization in Indian Languages	Mobile Web Standards, Mobile Ok in Indian Languages and their Reference Implementation for Indian Languages	Dec 2013	Project being Conceptualized
						Development of Automatic Speech Recognition for Agriculture and Weather Information – ASR Consortium –Phase –II.	Augmentation of the present ASR systems for Agriculture and Weather Information	June 2013	Project being finalized. Pilot deployment by Ministry of Agriculture being initiated. Project being Developed.

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						Development of Pronunciation Lexicon for South Indian Languages Study.	Pronunciation Lexicon data as per W3C Standards in South Indian Languages	Dec 2013	Project under implementation
						Tree Bank Structures for Indian Languages	Alpha version of Tree Bank Structures for Indian Languages	Jan 2013	Project under implementation
						<b><u>On-Going Projects</u></b>			
						Six Consortium Mode projects –Phase –II in the areas of Eng-Indian languages Machine Translation , Indian Languages – Indian Languages Machine Translation , OCR , OHWR and Cross-lingual Information Access (CLIA) [ Systems with enhanced efficiency and more languages pairs]	Enhancement of systems Performance of MT , OCR and OHWR and CLIA in Indian Languages	Dec 2013	Phase –II consortia projects are being implemented. 18 language pairs MT systems, 5 Monolingual search engines in Indian languages, OCR as Web Services in 7 Indian Languages made available through TDIL Data Centre OHWR in 7 Indian Languages
						Alpha version of Text to Speech integrated with		Sep 2013	Web based TTS as Mozilla Chrome

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						Screen reader for 12 Indian Languages and TTS for 6 Indian Languages for Android based Mobile System	Enhancement of TTS System integrated with screen reader in terms of System Performance and TTS for Mobile devices	Dec 2013	Plug-in has been made available for 6 Indian Languages  Project under implementation
						Morphological Analyzer in Indian Languages	Alpha version of Morphological Analyzer in Indian Languages	June 2013	Alpha version developed
						NLP Dashboard in Indian Languages	Alpha version of NLP Dashboard	Feb 2014	Project under implementation
						Development of annotated corpora for Indian Languages	Annotated corpora of 50,000 sentences each for 17 Indian Languages	Dec 2013	Project under implementation
						Development of Dravidian WordNet South Indian Languages	WordNet for 15,000 synsets each for 4 South Indian Languages	Sep 2013	Word-net data of 20,000 synsets developed
						Indradanush: Development of WordNet data of 25.000 synsets for 7 Indian Languages	Wordnet data of 25.000 synsets for 7		

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						<p>Development of Prosodically guided Phonetic Engine and Phonetic search engine in Indian Languages</p> <p>Stake holders consultation and Validation of the following : Consolidation of inputs for internationalization in W3C standards namely CSS, PLS, SSML Xforms, Mobile Web, XHTML and E-Gov Linked Data under W3C India initiative</p> <p>Uploading of Language Technology Software Tools &amp; resources to TDIL Data Centre</p> <p>Support for CD user base</p>	<p>Indian Languages</p> <p>Alpha version of Prosodically guided Phonetic Engine and Phonetic search engine in 11 Indian Languages</p> <p>Web Internationalization , Standardization to enable Web in 22 Indian Languages</p> <p>Software Tools &amp; Resources developed under TDIL Projects are being uploaded to TDIL Data Centre regularly and</p>	<p>Dec 2013</p> <p>Jan 2014</p> <p>Feb 2014</p>	<p>Project under implementation. Basic proof of concept engine developed for 4 Indian Languages</p> <p>Ongoing Standardization Activity. Best Practices of Localization in Indian Languages adopted as E-Gov Open Standard</p> <p>Project under implementation. , 195 Language Res</p>

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						Percolation of CDs to new spheres . Reviewing of CD Contents & also upgrades of open source regions. Development of Indian Languages fonts for Mobile handsets.	disseminated for research purpose.  Unified Language CD in 22 Indian Languages Mobile Fonts and Rendering engine as key component for enabling Mobile system with Indian Languages.	Mar 2014	Mobile SDK for Android for Hindi Language developed
	ICT Vocational Centres for Skill Creation for the Children with Disabilities in the area of IT.	Setting up additional ICT centres to be identified in consultation with States/ UTs for implementation.	-	32.00	-	Around 100 ICT infrastructures at schools under Vocational Training Centres provided with special IT assistive tools and technologies and connected to LAN and Internet.	Access for the less privileged children in the proximity of these centres to learn ICT skills and enabling them to seek employment and earn livelihoods.	March, 2013	Project completed on 31.3.2013
	Establishment of 250 ICT centres in rural Rajasthan	Operationalising ICT centres in Government schools in rural areas in the District of Ajmer and Jaipur.				Around 250 ICT centres in the schools under MoU initiated with the State Educational authorities and ERNET India.	The joint project to empower rural students with ICT skills and Internet connectivity to access information pertinent to their career and was provided with Internet and ICT	November, 2013	Granted extension upto 31.4.2014. The project objective were met. The ICT infrastructure will be handed over to Govt. of Rajasthan.

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						labs facilities.			
	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	Granted extension upto June, 2014. 14 KV schools were connected. Cloud based services were under testing.
	Establishment of the Bio-IT collaborative facility at Institute of Bio-Informatics Applied Bio-technology (IBAB), Bangalore.	Setting up Bio-IT Research and Training facility and creation of professional manpower in Bio-IT field, R&D in Bio-IT area.				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 sequencing, DNA and molecular biology.	Entrepreneurs & skills development in Bio-IT in the country.	March, 2015	IBAB had requested for additional grant to augment computing resource and storage.
	Establishment of Knowledge Web Repository at State Institute of Encyclopaedic Publications	Pilot test development and upgradation of Sarva government in web repository in Malayalam and contents.				Joint MoU project with SPACE, Tvm on Open Source Software initiative, and Meta data framework for the specific community and repository of contents in digital formats.	Dissemination of Knowledge to the Content researchers and common man with Kerala IT mission etc.	Pilot till November, 2012 Extension sought	Granted extension upto May, 2014. Digitization of Encyclo-paedic was completed. The portal was under testing.

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	(SIEP), Thiruvananthapuram.								
6	<b>Facilitation of setting up of Integrated Townships (E-Infrastructure)</b>	Facilitation of setting up of IT Investment Regions (ITIRs) projects for IT/ ITeS units in the States/ UTs.	-	0.10	-	Information Technology Regions (ITIRs) to set up in different States/UTs.	Decongesting existing cities and provide additional productivity and employment generation through ITIRs proposed to be established.	Long term over 25-35 years and continuation from XI to XIIth Plan period.	CCEA approved the proposal of Govt. of Karnataka & Andhra Pradesh to set up ITIR in Bangalore and Hyderabad respectively. Notifications were issued.
7	<b>Cyber Security (incl. CERT-In, IT Act)</b>	<ul style="list-style-type: none"> <li>Security Policy, compliance &amp; assurance</li> </ul>	-	54.37 (Incl. 1.00 Cr for NER)	-	<ul style="list-style-type: none"> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>Implementation of cyber security Crisis Management Plan (CMP) and security best practices in Central Govt. Ministries/Deptt. as well as States/UT</li> </ul>	<ul style="list-style-type: none"> <li><b>Ongoing</b></li> <li>Status of compliance to be ascertained at periodic intervals</li> </ul>	<ul style="list-style-type: none"> <li>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 are being used to verify</li> </ul>

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						networks to resist cyber attacks.		compliance. • Crisis Management Plan for countering cyber terrorism has been updated and released.	
							Enabling Sectoral Crisis Management Plans to be developed and implemented.	Central Government ministries/departments and states & UTs are preparing their own sectoral CMPs for implementation. 10 Enabling Workshops for critical sectors, States and UTs were conducted.	
						• Verification of security posture, compliance and preparedness of Government and critical sector organisations	• Ongoing • Periodic cyber security drills to be conducted to verify security posture and compliance.	• Cyber security drills to assess preparedness of organisations to withstand cyber attacks were organized. A national drill targeting Data Centres was held on 20th December 2013.	
							• Empanement	• Twenty One more auditors were	

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								activities to be conducted at periodic intervals	empanelled for audit of IT infrastructure from cyber security point of view after a fresh round of skill assessment, in addition to existing 22 auditors.
								· Audit of IT infrastructure of key organisations	• 39 IT Security audits of critical sector organizations have been carried out by CERT-In.
							<ul style="list-style-type: none"> <li>• Enhancement of IT product security testing facility and infrastructure.</li> </ul>	<ul style="list-style-type: none"> <li>• Ongoing,</li> <li>• Upgradation of existing test facility and enhancement of skills and capabilities</li> </ul>	An advanced UTM device with capabilities of cleaning the incoming and outgoing traffic to block and mitigate a wide variety of cyber attacks has been deployed. Disaster recovery centre (DR) for CERT-In has started functioning.
		• Security				• Trained manpower to	• Specific training	Ongoing	CERT-In has

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		awareness, skill development and training				implement techniques to secure IT infrastructure. <ul style="list-style-type: none"> <li>Trained manpower to collect, analyse and process digital evidence. Pre trained manpower will help in securing cyber space and check cyber crimes.</li> </ul>	facilities, training modules and content development. <ul style="list-style-type: none"> <li>Awareness and training programmes to facilitate information sharing to deal with crisis situations.</li> </ul>	, <ul style="list-style-type: none"> <li>Training programmes on specific topics of cyber security to be organised</li> </ul>	conducted 26 trainings on various specialized topics of cyber security and 878 officers including System/Network Administrators, Application Developers, IT Managers, Chief Information Security Officers (CISOs)/ Chief information officers (CIOs), and IT Security professional have been trained.
		<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>	<ul style="list-style-type: none"> <li>Research and development of indigenous cyber security solutions, proof of concepts and prototypes and skilled manpower in areas of cyber security including.</li> <li>Crypto Analysis &amp; Research.</li> <li>Network &amp; System Security.</li> </ul>	<ul style="list-style-type: none"> <li><b>Ongoing</b></li> <li>Formulation of proposals with special focus on cryptanalysis, malware research, mobile</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. 11 R&amp;D proposals were formulated in</li> </ul>

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						<ul style="list-style-type: none"> <li>Monitoring, Detection and Forensics.</li> <li>Vulnerability assessment and remediation through sponsored projects at recognized R&amp;D organisations.</li> </ul>	security, cloud security, advance d cyber forensic s & evaluati on of proposal s by Working Group	the areas of (i) Advanced Digital Forensic Tools development to deal with emerging IT devices and Cloud Environment, IaaS, (ii) Tools for information security assurance framework for measurement and assessment of security posture (iii) Biometrics tools with multi model capability including Face recognition & Iris recognition along with scalable architecture to handle large databases and advanced Techniques for Video Enhancement to facilitate authentication and to aid user agencies during investigation, (iv) intelligent adaptive video	

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								monitoring and recording system, (v) detection of vulnerabilities in web applications, (vi) honeynet System for Broadband Networks, (vii) R&D in cryptography including implementation of Quantum key Distribution protocols, (viii) Design of Secure Network System with reduced complexity and (ix) Setting up of test bed for study of application based network communication traffic .	
							Periodic review of individual projects.	• 32 projects were reviewed by the respective Project Review and Steering Committee (PRSG) projects and follow up actions have been	

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								taken.	
		<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>Real time Malware tracking and analysis with special focus on virus/bots.</li> <li>Real time response to cyber security incidents.</li> </ul>	<p>Around 95552 cyber security incidents reported, tracked and handled. The types of incidents handled are Phishing, Network scanning/probing, Malicious code, Denial of Service, Email hacking, Website intrusions and website defacements.</p> <p>Around 7892544 Bot infected and the same were informed to ISPs for mitigation.</p> <p>Around 25577 Website defacements and 1783 Open Proxy Servers tracked.</p>
							<ul style="list-style-type: none"> <li>Alerts, Advisories and vulnerability Notes.</li> </ul>	<p>11 Security alerts, 89 Security Advisories and 235 Security Vulnerability notes issued.</p>	

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								Security Bulletins covering various cyber security issues, intrusion trends and defence mechanisms are being published every month.	
		<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> </ul>	<b>Ongoing</b> Enhancing the provisions of the existing legal framework.	Rules for Section 70 A (Functions & Duties of National nodal agency for Critical Information Infrastructure Protection) & 70 B (Functions & Duties of Indian Computer Emergency Response Team (CERT-In) for incidence response) have been notified.
						<ul style="list-style-type: none"> <li>Operation and maintenance of Cyber Appellate Tribunal.</li> </ul>	·Ongoing ·Awareness programmes for adjudicating officers to be organized. Disposal off	Member (Technical) is functioning as Head of the department. Nine fresh appeals have been filed by the parties which are awaiting admission hearing. In addition to 14 appeals from the previous years. The same will be disposed of on the	

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								Appeals relating to the Cyber Law	joining of the Chairperson, CAT who is the competent Authority for the disposal of the appeals.
8	<b>Promotion of Electronics and IT HW Manufacturing (Productivity and Employment)</b>	(a) Finalization of the recommendations of Empowered Committee and preparation of Cabinet Note for obtaining approval of the Cabinets on the recommendations of Empowered Committee, constituted for making recommendations for setting up of Semiconductor Wafer Fabs for manufacture of Chips in India. Also to take further action based upon the	-	100.00	-		These would encourage investment in electronics/ IT hardware manufacturing sector and also provide employment opportunities in the Country.	March 2014	(a) The Empowered Committee (EC) constituted with the approval of Union Cabinet for identifying technology and investors for two Semiconductor Wafer Fabrication (Fab) manufacturing facilities in the country to assess and recommend the nature and quantum of Government support that may be required to translate the interest into investment, has finalized its recommendations. Based on the same, the Cabinet considered the note dated 02.09.2013 for "Setting up of Semiconductor Wafer

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		decision of the Cabinet.							<p>Fabrication (FAB) Manufacturing Facilities in the country” in its meeting held on 12.9.2013 and accorded ‘<i>in principle</i>’ approval to the recommendations of the Empowered Committee, inter- alia proceeding with further steps in respect of both the proposals received for establishing Fabs viz., from the consortia of (i) Jaypee Associates, IBM and Tower Jazz and (ii) HSMC, ST Microelectronics and Silterra,. The Cabinet further directed that:</p> <p>(i) all other semiconductor wafer fabrication manufacturers may also be appropriately and fully apprised of the quantum of subsidy/other benefits/support being</p>

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								<p>offered for establishing FAB facilities in India. Such manufacturers may be asked to indicate their interest / send their responses on specified parameters to the DeitY within a period of four weeks;</p> <p>and</p> <p>(ii) the matter along with the analysis of the responses received may thereafter be brought for consideration of the Cabinet</p> <p>Accordingly, 'In principle' approval letters were issued after obtaining requisite approvals and all other semiconductor wafer fabrication manufacturers have also been apprised about the quantum of subsidy/other benefits</p>	

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								<p>/support being offered for establishing FAB facilities in India and requested to send their response in prescribed format.</p> <p>Thereafter, further meetings of the Empowered Committee was held wherein, inter-alia, responses to the letters of 'in-principle' approval issued to two consortia's and analysis thereof and analysis to the response to EoI was deliberated and further directions obtained.</p> <p>After that, the report of the EC was finalized and the draft Cabinet note regarding the approval of the proposals for establishing semiconductor wafer</p>	

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									<p>fabrication (FAB) manufacturing facilities in the country was circulated for inter-ministerial consultations on 22<sup>nd</sup> Jan. 2014. The Union Cabinet in the meeting held on 12/2/14 has considered the Cabinet Note dated 10/2/14 and has approved setting up of semiconductor wafer fabrication (FAB) manufacturing facilities in the country. Preceding to that, the Cabinet considered the note dated 02.09.2013 for "Setting up of Semiconductor Wafer Fabrication (FAB) Manufacturing Facilities in the country" in its meeting held on 12.9.2013 and</p>

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								accorded 'in principle' approval to the recommendations of the Empowered Committee, inter-alia proceeding with further steps in respect of both the proposals received for establishing Fabs viz., from the consortia of (i) Jaypee Associates, IBM and Tower Jazz and (ii) HSMC, ST Microelectronics and Silterra, subject to the condition that investment linked deduction under Section 35AD of the Income-tax Act may be considered for the two proposed semiconductor wafer fabrication manufacturing units, vice tax benefit under Section 80 IA of the Income-tax Act. Further, the quantum of Viability Gap	

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								<p>Funding (VGF) would be suitably adjusted, after the appraisal of the Detailed Project Reports (DPRs), subject to the condition that the total quantum of incentives available to each of the two applicants remains within the recommendation of the EC.</p> <p>Thereafter, the meeting of the Empowered Committee (EC) was held on 18 -2-2014 to deliberate further action after the approval of Union Cabinet and the Letters of Intent dated 19-3-14 were issued to the two consortia for setting up of Semiconductor Wafer Fab facilities in India.</p>	

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		(b) To take further action for implementation of the policy for providing preference to domestically manufactured electronic products (including telecom equipment) in procurement of those electronic products which have security implications for the country and in						<p>The two consortia's have sought extension of time for submission of requisite information, which is being considered in the Department.</p> <p>(b) PMA Policy notified in Feb 2012 with Cabinet approval to provide preference to Domestically Manufactured Electronic Products in Government Procurement and Products having security implication had been reviewed and revised policy for providing preference to domestically manufactured electronic products (including telecom equipment) in</p>	

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		<p>Government procurement. The proposed activities are:-</p> <p>To review the progress of implementation of the policy.</p> <p>To notify electronics products under this policy viz. smart cards, LEDs etc.</p>							<p>Government procurement was notified by the Government, vide Notification dated 23<sup>rd</sup> December 2013 for increasing share of domestically manufactured electronic products which includes telecom equipment also. The policy will be applicable to all Ministries/Departments (except Ministry of Defence) and their agencies for electronic products purchased for Government purposes and not with a view to commercial resale or with a view to use in goods for commercial sale. This would also be applicable for procurement of electronic products made under all Centrally Sponsored</p>

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		(c) To take further action for attracting investment from						<p>Schemes and grants made by Centrally Government. Generic products, which are procured across sectors, such as, computers, communication equipment etc. DeitY has notified the electronics products viz. Desktop Personal Commuter; DOT Matrix Printer; Tablet Personal Computer; Laptop Personal Computers; Smart Cards; LED Products for providing preference in the procurement and Deptt. of Telecom has also notified 23 telecom products:</p> <p>(c) The further action was taken to implement the policy and the PMU for M-SIPS has been made functional. The</p>	

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		appx. 50-100 units under M-SIPS scheme that has been notified in Gazette of India in July 2012 after the approval of Cabinet.						<p>Technical Evaluation Committees, for Automotive Electronics, Electronic Products and ATMP have been constituted. Industry Advisory Committee for advising the Department on issues related to MSIPS verticals has been constituted. An amendment to the M-SIPS guidelines have been issued on 23-12-13 regarding applicable investment threshold in the case of manufacturing of more than one electronic product in the single application.</p> <p>In all, the 31 proposals worth Rs 14947 crore investments have been received, seeking incentives. Proposals seeking incentives under MSIPS have</p>	

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		(d) In accordance with the Cabinet's National Policy on Electronics, 2012 (NPE 2012), "Electronics and Information Technology Goods (Requirements for Compulsory Registration) Order, 2012" had been notified through the Gazette of India on 03 Oct. 2012 under the provision of compulsory						<p>been evaluated. Ten meetings of Appraisal Committee(AC) were held. AC has recommended 10 cases of worth nearly Rs 1488 crore. Based on recommendation, 8 proposals worth nearly Rs 1151 crore have been approved.</p> <p>(d) The "Compulsory Registration Order" came into effect from 3<sup>rd</sup> July 2013. This Order covers 15 notified electronic products categories namely Electronic Games (Video), Laptop/Notebook/ Tablets, Plasma/ LCD/LED Television of screen size 32" or above, Optical disc players with built in amplifiers or input power 200w and above, Microwave Ovens, VDUs, Video Monitors of screen size</p>	

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		Registration Scheme of BIS Act, 1986. This order becomes effective from 03 April 2013. To take action for obtaining the necessary approval for operationalising / implementing this Scheme.; recognition of labs; engagement of agency for surveillance ; creating portal for managing the scheme and creating awareness about the process.						32” above, Printers/Plotters, Scanners, Wireless Keyboards, Telephone Answering Machines, Amplifiers with input power 2000w and above, Electronic Musical Systems with input power 200w and above, Electronics clocks with Main powers, Set Top Box and Automatic Data Processing Machines.  BIS has recognized 11 labs to test the notified products. To develop conformity assessment infrastructure in the country a “Scheme for Financial Support for Test Labs” has been announced. DeitY has also come out with a “Scheme for Financial Support for MSMEs” to support Electronic Industry to comply with the provisions of	

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								<p>the Order. The Order has resulted into 90% plus compliance testing of notified electronic goods to Indian safety standards at BIS registered labs and more than 741 manufacturing units have been registered with BIS covering approximately 4000 products models/series.</p> <p>Interactive Workshops across various parts of the country (Delhi, Mumbai, Hyderabad, Goa, Thiruvananthapuram, Kolkata and Bangalore) were organized to spread awareness and to educate stakeholders about requirements of this new order. A Program Management Unit consisting of consultants has been</p>	

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		(e) To aggressively market India as an investment						<p>especially setup at DeitY to give shape to the initiative on developing and mandating standards. A portal entitled "Electronics Standards of India" to bring transparency &amp; make information easily available to stakeholders has been launched facilitating online registration process, surveillance process, access to database of Registered Manufacturing Units and products covered. Regular stakeholder consultations by periodic meetings with stakeholders at various levels including Technical consultations were held under the aegis of Technical Advisory Committee set up for the purpose.</p> <p>e) High level</p>	

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		destination for ESDM among leading Nation and Companies. This includes engagement of a reputed, international strategy consulting organization to develop and implement key strategy for aggressively marketing India as an investment destination for ESDM. Further activities are Round Tables, Road shows, Exhibitions and Events are planned for individual verticals of electronics.						delegations visits were organized in USA, Japan, Taiwan and Israel for the Promotion/awareness of policy initiative and incentives to attract FDI investment in ESDM sector in India. Out of these, visits to USA, Japan and Israel were led by Hon'ble MCIT. As a result, there is a significant interest amongst the Global companies in these countries to consider investments into the ESDM sector in India. Proposals amounting to investments of around Rs 15000 Cr have already been received in various sectors like Automotive Electronics; LED lights; LED Fab; Consumer Electronics; Components; PCB Manufacturing;	

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								<p>Mobile phones; Telecom Equipments; Solar Modules; Software defined Radios; Avionics; Measuring Equipments. etc.</p> <p>Joint working Group (JWG) on IT and Electronics to sort-out various hindrances and decide on future road-map for the benefit of electronics manufacturing industry with Japanese side has been created. 1<sup>st</sup> JWG meeting with Japan was organized in November 2013 which proposed three major proposals for greater cooperation and collaboration (i) Promotion of National Policy on Electronics in Japan, (ii) Human Resource Development in the area of electronics</p>	

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								<p>and (iii) Japan-Electronics Industrial Township in India.</p> <p>Japan Desk and Israel Desk have been created to expedite &amp; facilitate the proposals of investment from Japanese Companies, to facilitate interactions with other agencies of Government of India and to facilitate interactions with State Governments. Various round-tables, awareness programs were organized with Ambassadors of various ESDM countries, Industry Associations, Industrial Houses, and teaching institutes by way of organizing the Seminars/conference. EOI to appoint a</p>	

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		(f) A Communications and Brand Building Campaign for promotion of ESDM sector in India has been launched with the objective to build “Made in India” as leading global brand in ESDM and increasing awareness regarding initiatives taken by						reputed, international consulting organization to assist Department to market India aggressively as an investment destination for ESDM among leading Nations and Companies had been floated and RFP has been issued for the same.  (f) A new brand “Electronics India” with the tagline “Billion Needs: Million Chips” was unveiled to bring out an uniformity in promoting Brand India as a destination for the ESDM sector worldwide.  As part of Campaign, state level workshops, specific verticals related workshops and other outreach	

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		Government to promote investments in ESDM sector.. A Communications Need Assessment Study to help orchestrate the Campaign is also underway and action would be undertaken to examine its recommendations and implementation thereof.							activities have been organized. Industry related workshops supported under the scheme were ELCINA EFY Expo, ELCINA Strategic Electronics Summit, ELCINA Source India 2013 and ISA Vision Summit 2013. About fifty ESDM Workshops for academia and students were also supported. Monthly e-Newsletter titled, “Electronics e-Newsletter” relating to ESDM which was launched in November 2011 with the objective of keeping the ESDM and stakeholder community better informed about the initiatives, decisions and actions of the Government is being brought out regularly.  A national and

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									<p>international marketing campaign is being launched to attract investment in the ESDM sector. Existing ESDM Industry players as well as those who are not part of ESDM are being encouraged to invest in this sector. For this purpose, the activities such as Round Tables, Road shows, Exhibitions and Events are also being conducted for individual verticals of electronics. One advertisement was published in Global Business Magazine as a side light to CeBIT, Germany.</p> <p>A Communications Need Assessment Study to help orchestrate the Campaign was carried out and its Report on</p>

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		(g) To take further action for setting up of a dedicated "Electronics Development Fund" for promotion of Innovation, R&D, Indian IPR and development of Indian Microprocessor on receiving the in-principle approval of the Planning						<p>the Communications Need Assessment has been received, which is being implemented by the Department.</p> <p>Further, the number of print and online insertions particularly two pages advertorial was published to attract investment in ESDM sector and publicize the policy initiatives taken in the sector.</p> <p>(g) The action was taken for setting up of an Electronics Development Fund (EDF) to promote innovation, intellectual property (IP), research and development (R&amp;D), commercialization of products in the Electronics System Design and Manufacturing</p>	

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		<p>Commission. Appraisal of the proposal by concerned Govt. mechanism. Preparation of draft Cabinet Note and obtaining approval of MCIT. Thereafter, circulation of draft Cabinet note for inter-ministerial consultations. After necessary consultations, the final Cabinet note would be prepared for placing before the Cabinet with the approval of MCIT for obtaining decision of the Cabinet. Further, to also take action on the recommendations of the committee constituted under the chairmanship</p>						<p>(ESDM), nano-electronics and information technology (IT) sectors. In this regard, the proposal of Rs. 10000 Cr. for creation of Electronics Development Fund to promote R&amp;D, IPR, Product development and technology acquisition in the ESDM sector was sent to Planning Commission for In Principle Approval (IPA). However, the same was not accorded approval by Planning Commission.</p> <p>The Draft EDF Policy to support Daughter Funds (Angel Funds and Venture Funds) has been finalised and approval process is being initiated. Separately, the following Daughter</p>	

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		of Principal Scientific Advisor to evaluate and recommend the proposal received from M/s. Walden International for USD 100 million fund.						<p>Fund Proposals have also been processed :</p> <p>(i) The proposal of Walden International, a Silicon Valley based, globally leading venture fund in ESDM sector, for setting up a Rs.500 crore fund (a probable Daughter Fund) in India for supporting Fabless Design Industry in India.</p> <p>(ii) The proposal of Alternate Investment Fund named Karnataka Semiconductor Venture Capital Fund (KARSEMVEN) sponsored by KBITS (Karnataka Biotechnology and Information Technology Services). The Fund intends to raise Rs.96.15 crore</p>	

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									<p>towards development of Semiconductor Industry within the State of Karnataka and to assist start-up, early stage and SME companies. The Fund will invest in companies in the Semiconductor sector which are driven by innovation. The proposal has been approved by Working Group.</p> <p>(iii) The proposal of India Electronics Innovation Fund submitted by SIDBI Venture Capital Limited with the primary investment focus of early and growth stage investments across various emerging fields in electronics and allied areas, information technology, communications,</p>

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		(h) To take further action for implementation of Electronics Manufacturing Clusters (EMC) Scheme, which has been approved by the Cabinet and notified vide Notification No.252 dated 22.10.2012 in Part-I, Section 1 of the Gazette of India (Extraordinary) [F.No.8 (50) – IPHW]. is to offset disabilities faced by Electronics Systems Design and Manufacturing (ESDM) units and to attract investments in the						semiconductors etc. of strategic importance to India. The proposal has been approved by Working Group.  (h) EMC guidelines for operationlization of EMC scheme have been issued on 15.4.13. Application fee for the EMC has been notified on 7 <sup>th</sup> May 2013. The guidelines for constitution of SPV for implementation of EMC issued on 30.1.14. 35 Brownfield clusters for the purpose of MSIPS have been notified. In-principle approval for 07 Greenfield EMCs located in the states of Andhra Pradesh, Tamil Nadu, Madhya Pradesh, kerala and Rajasthan and 01 Brownfield Cluster for Common Facility Centre in Karnataka	

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		sector such as:- <ul style="list-style-type: none"> <li>• otify 10 Brownfield clusters.</li> <li>• o accord in-principle approval to five Greenfield clusters.</li> </ul> (i) To take action for obtaining the approval of MCIT on final Cabinet Note based upon the inter-ministerial consultations and submission thereof to the Cabinet for its consideration and decision regarding setting up of a National Electronics Mission (NEM) to promote Electronics System						has been accorded by Steering Committee for Clusters (SCC). Final applications for 6 Greenfield EMCs are under appraisal process.	
								(i) The proposal for setting up of National Electronics Mission was not agreed by Planning Commission, which has suggested to make it as an advisory body. Since, the proposal was not agreed by Planning Commission and their suggestion is not useful, it could not be implemented. However, two PMUs to promote Electronics System Design	

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		Design Manufacturing in the country and also Creating and strengthening the institutional mechanism for promoting ESDM activities by recruitment of specialized manpower.						Manufacturing in the country by engagement of specialized manpower has been augmented and 08 Consultants have been engaged apart from specific PMU for EMC and M-SIPS Schemes. Apart from that, Shri Kapil Sibal, Hon'ble Minister for Communications and Information Technology and Law & Justice also held a meeting with Chief Ministers and Ministers of State Governments to enlist their support in the ongoing efforts of Government for promotion of investment in Electronics System Design and Manufacturing (ESDM) in India at Vigyan Bhawan on	

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									<p>May 29, 2013. At the meeting, Shri Sibal, emphasized on the importance of the role of the State Governments in creating a pro-investment environment and facilitative availability of land, water, roads and training infrastructure to provide skilled manpower to support manufacturing activities.</p> <p>Appreciating the steps being taken by some of the State Governments, fruitful results of which are now becoming evident, he argued that other State Governments should also consider developing attractive policies for attracting the investment to their states. The States</p>

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		(j) To take further action for getting an assessment						welcomed the initiative taken by Government of India and discussed their plans to support National Policy on Electronics and avail benefits of MSIPS and EMC scheme. The discussion involved Ministers from the states of Arunachal Pradesh; Gujarat; Haryana; Kerala; Orissa; Tripura, Uttarakhand and Sikkim along-with several senior officials of the Government of India and State Governments. The representatives of various Industry associations including CEAMA; IESA; ICA; TEMA CMAI; AIMED; ACMA; ELCMA; CII MAIT ELCINA etc. also participated in the meeting.	

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		<p>study conducted to identify Skills Gaps in the Electronics System Design and Manufacturing sector</p> <p>(k) Approval for Setting up one centre of Excellence in ESDM sector.</p>						<p>(j) The work pertaining to assessment study to identify Skills Gaps in the Electronics System Design and Manufacturing sector was awarded and it is process.</p> <p>(k) For setting up of Centre of Excellence in Large Area Flexible Electronics, IIT Kanpur had submitted Detailed Project Report to set-up Centre of Excellence in IIT Kanpur with total outlay of Rs 132.99 crore with the objective to establish R &amp; D program which will lead to development of critical set of components suitable</p>	

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								<p>for rapid development of products, develop prototype for commercialization, standards for electronic product, create national technology roadmap every three year and create one spin-off commercial venture based on the work done at the centre. EFC memorandum has been circulated for Inter-ministerial comments.</p> <p>(k) (ii) The action was also taken to set up National Centre of Excellence in Technology for Internal Security(NCETIS) with the objective to develop state-of-art-technologies, vital to our security agencies ( Police and Para military forces),</p>	

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		<p>1) Initiation of development of at least four ESDM products. To take action for promoting export of ESDM products.</p>						<p>providing the rescue and relief operations. The centre would be set up in IIT Bombay. Detail Project Report has been submitted by IIT Bombay with outlay of Rs 100.86 crore. The EFC Memorandum is being submitted to Finance section of DeitY for comments.</p> <p>(1) The action was taken to provide Providing Deemed Export Status for Electronics manufacture with the objective to provide r incentives to eliminate disability costs in manufacturing in Electronics Sector. The ITA Products / zero duty products are proposed to be provided incentives to offset this disability. A</p>	

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								draft Scheme for providing incentives to domestic manufactures of notified ITA1/zero duty electronic products, electronic components and accessories for sale in Domestic Tariff Area (DTA) is being formulated in consultation with Department of Customs, Department of Commerce, DGFT, Department of Revenue, Department of Customs etc. The incentive Scheme will be called DTA incentive Scheme. A manufacturing process, which produces an intermediary of a notified product or component or accessory, will also be eligible for consideration of	

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								<p>incentive under the scheme. The incentives would be applicable to the products notified by DeitY from time to time.</p> <p>(m) A proposal for setting up of an Electropreneur park by Software Technology Parks of India (STPI), New Delhi, an Autonomous society of the DeitY in association with ISEA and Delhi University (DU) is being considered to emphasize on development of Product and IP creation in the ESDM sector especially in the CAREL (Committee for Advancing Research in Electronics) identified 6 mass consumption electronics products.</p>	

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								<p>As a pilot project, the 1st such centre is proposed to be set up in National Capital Region (NCR), which can be housed in one of the offices of STPI in the region or space given by University of Delhi. Setting up of the proposed pilot Electropreneur Park will primarily aspire to contribute to the ESDM growth story of India with emphasis on IP creation and Product Development to result in increased domestic value addition.</p> <p>(n) Government disallowed bringing of flat panel LCD/LED TVs as part of baggage allowance in Aug 2013. This led to a spurt in domestic manufacturing of these TVs in the country.</p>	

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								<p>(o) The Aakash –IV specifications were finalized by DeitY. The tender for procurement of Aakash tablet was released by DGS&amp;D. Aakash tablet is expected to provide impetus to domestic manufacturing industry.</p> <p>(p) This Department has taken steps to promote indigenous manufacturing of Set Top Box (STB) for Cable / DTH TV, keeping in view the huge indigenous requirement on account of roadmap for digitalization of the broadcast sector. The Core Advisory Group for Research and Development (R&amp;D) in Electronics Hardware (CAREL), the</p>	

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									<p>empowered group formed under the auspices of the Office of the Principal Scientific Adviser has identified six products for design, development and manufacture indigenously and one of the products is Set Top Box.</p> <p>In this direction, in the Budget 2013-14, basic customs duty on Set Top Boxes has been increased to 10% and the DGFT vide Public Notice No.51(RE2012)/2009-14 dated 5<sup>th</sup> March, 2013 has included Set Top Boxes [covered under ITC(HS) Code 85287100] under the Special Focus Product Scheme of the Foreign Trade Policy. Hence, Set Top Boxes are now entitled for Duty Credit Scrip equivalent to 5%</p>

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								of FOB value of exports.  A major impediment in design and development of domestic Set Top Boxes is the license of Conditional Access System (CAS) players. Therefore, DeitY released an Expression of Interest (EOI) for the Development of Indian Conditional Access System (CAS) for the development and implementation of the Indian Conditional Access System (CAS). The work is being awarded in this regard.	
9	<b>STQC</b>	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. 10.00 Cr for NER)	-	1.Up gradation of Test & Calibration facilities to cater to state-of-the-art products with emerging technologies  2 Revenue target realization.	Allocated budget will be spent for up gradation of test and calibration facility to meet the demand industry.  Revenue of Rs. 50 crores approx. likely to be generated.	March, 2014  March, 2014	Test & Calibration infrastructure in different stages of procurement  Labs earned Rs. 48 Crores.

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						3. Maintenance & upgrade of IT test tools and infrastructure	More than 50 eGov projects will be evaluated	March, 2014	Procurement action completed
						4. BIS approval for four STQC labs for safety & EMC	Facilitating Regulatory requirements for Compulsory Registration Scheme	March, 2014	Labs at Delhi, Mumbai, Kolkata and Bengaluru approved by BIS. Released more than 650 test reports.
						5. Upgrade testing and Auditing facilities for security of Network, systems, applications and websites	Seeking accreditation for CC test facility	March, 2014	The procedure for empanelment of CC Test labs in public and private sector are finalized and awaiting the approval of the competent authority before inviting applications
						6. Strengthening of SPV panels and products testing at two STQC labs	Infrastructure support for quality assurance of SPV products to meet requirements of national Solar Mission	March, 2014	New equipment /system are under installation.
									342 training

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						<p>7. National Capacity Building in Quality management System, Information Security and Practice Oriented skill based trainings</p> <p>8. Progress of construction activity of STQC Building at Noida.</p> <p>9. Human Resource Development by conducting DOEACC 'O' &amp; 'A' level courses in NE region.</p>	<p>More than 300 training programs to be conducted across India</p> <p>Construction activity of first phase to be completed.</p> <p>SC/ST/OBC/women / weaker section of society and unemployed youth of NE region will be benefited in Computer field.</p>	<p>March, 2014</p> <p>March, 2014</p> <p>March, 2014</p>	<p>programs conducted</p> <p>No change</p> <p>On-going activity</p>
10	<b>Technology Development Council Projects (incl. ITRA)</b>	<b>Information Technology in Emerging areas (ITEA)</b> To develop technologies for ubiquitous computing applications and Free & Open Source Software	-	85.00 (Incl. 4.00 Cr for NER)	-	Ongoing projects in Free & Open Source Software (FOSS) and Ubiquitous Computing will be supported to achieve their targets.	New software applications, algorithms and tools will be developed.	March 2014	<ul style="list-style-type: none"> <li>Significant progress has been made in these projects which have resulted in publications in international journals and conferences.</li> <li>Prototype software application developed for</li> </ul>

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		(FOSS).				BhartiSim simulator for multi core processors with support for advanced memory system and parallel execution.	Development of software simulator for microprocessor design.	January 2014	<p>monitoring real time household energy consumption.</p> <ul style="list-style-type: none"> <li>Algorithms developed to address specific problems in Smart Grid Design.</li> <li>Under m-health application, a Low-cost non-invasive Hb- sensor device with integrated Android mobile phone developed.</li> <li>Prototype Android application developed for interfacing with external sensors and remote controlling of external devices over Bluetooth and Wi-Fi network.</li> </ul> <p>BhartiSim is being developed as a highly configurable simulator with simple XML interface. The</p>

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						<p>Initial design of component based Operating System and Linux Kernel Programming Plugin suite</p> <p>New R&amp;D projects will be initiated.</p>	<p>Development of a new operating system</p> <p>Support research and development activity in the country for the development of new technologies and solutions to some challenging problems in the area of ICT.</p>	<p>March 2014</p> <p>March 2014</p>	<p>simulator uses Virtual Instruction Set Architecture (VISA), a simple RISC Instruction Set, for instruction translation.</p> <p>A service abstraction based OS Kernel design model has been developed. Further, R&amp;D activities are going on to develop the component based OS based on this model.</p> <p>New R&amp;D project proposals are being evolved/ studied for evaluation by the TDC Working Group.</p>
		To promote research & foster				Ongoing projects would be progressed in	Research publication, patents,	April 2014	- Achieved

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		development in the Emerging areas of - Bioinformatics - Perception Engg. Etc.				Bioinformatics and Perception Engg. for developing algorithms, high end computational tools including databases to support drug discovering. 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.	databases for scientific community.		
						Ongoing project to be progressed in Virtual Observatory for hosting VO applications for free usages by researchers, educational users of the nation as well as for international users.	VO India products for multiple purpose usage deployed on VO-India servers at IUCAA, Pune using the NKN	July 2013	Achieved
		<b>IT for Industrial Applications</b>  To strengthen local				<b>National Mission on Power Electronics Technology Phase II (NaMPET II)</b>			

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		base for R&D/ application in Electronics and IT in the field of Industrial Electronics, Agriculture and Water Resources.				<ul style="list-style-type: none"> <li>• Initiation of three new exploratory/advanced technology/ demonstration projects</li> <li>• Upgradation of Infrastructure at Nodal Centre- setting up of Green Power Lab</li> <li>• Holding of 3 Short-term Courses in different areas of Power Electronics</li> <li>• Organization of Second National Workshop</li> </ul>	<p>Enhancement of R&amp;D infrastructure and design capability in the area of power Electronics Technology contributing to design led Electronics hardware manufacturing</p>	<p>June, 2013</p> <p>Oct., 2013</p> <p>July, 13 Sept., 12 Nov.12</p> <p>Jan., 2014</p>	<p>Initiated in last FY</p> <p>Initiated in last FY</p> <p>Held in June, 2013 Held in April, 2014 Held in April, 2014</p> <p>Since first National Workshop was held in Sep. 2013, second workshop is shifted to Nov. '14 by NSC.</p>
						<p><b>Application of Electronics for Agriculture &amp; Environment : ( e-AGRIEN)</b></p> <ul style="list-style-type: none"> <li>• Field trials of Obnoxious Gas Monitoring System in industry.</li> </ul>	<p>Enhancement of R&amp;D infrastructure and design capability and demonstration on application of</p>	<p>June, 2013</p>	<p>Completed</p>

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						<ul style="list-style-type: none"> <li>Filed deployment of WSN Decision Support System in Tea garden.</li> <li>Organization of Workshops for awareness creation about the System and Technology developed under the programme.</li> </ul> <p>Automation System Technology Centre (ASTeC)</p> <ul style="list-style-type: none"> <li>Follow up on TOT related activities for the developed technologies in ASTeC project.</li> </ul>	<p>electronics for agriculture and environment</p> <p>Availability of cost effective solutions of Automation Technologies to Indian user &amp; manufacturing industries</p>	<p>Aug., 2013</p> <p>Dec., 2013</p> <p>Sept., 2013</p>	<p>Deployed in Tea Garden at Jorhat</p> <p>Organised</p> <p>Followed up with different agencies and 13 products are ready for TOT</p>
						<p><b>Intelligent Transportation System (ITS):</b></p> <ul style="list-style-type: none"> <li>Completion of testing</li> </ul>	<p>Demonstration and</p>	<p>Completed excepting ATIS sub project, which is delayed due to field related</p>	

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						and field trials of all technologies developed under ITS project  • Follow up on TOT related activities for the ITS products developed	availability of cost effective IT solutions for the road transportation sector  June, 2013  Sept., 2013	problems. Based on recommendations of NSC, ITS project has been extended by the competent authority upto 30.6.2014. TOT committee meeting were held on 2 products ready for TOT(Red light violation system and parking lot management system).	
1 1	<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	-	2 nanoelectronics projects will be initiated	It would enable creation of a strong R&D base in nanoelectronics in the country  One by December 2013 and one by February 2014	3 projects initiated. One large project “Centre for Excellence in Research and Development of Nanoelectronic Theranostic Devices” initiated at IIT Guwahati to promote nanoelectronics in the north eastern region.  One large joint project “Indian Nanoelectronics Users Programme (INUP)-Phase II” initiated at IISc and IIT Bombay to train the researchers	

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								across the country.  One small project “Demonstration of LED by Pulsed Laser Deposition (PLD) technique” initiated at University of Delhi.	
						2 microelectronics projects will be initiated.	It would enable creation of a strong R&D base in microelectronics in the country  One by December 2013 and one by February 2014	3 projects initiated  A project “Virtualization and Security Aware Multicore Architecture” initiated at IISc Bangalore to carry out investigations for specifying the architecture of a Virtualization and Security aware Multi-core Processor  A project “Low Temperature and Low Pressure Cu-Cu Fine Pitch Bonding for Vertical (3-D) Integration” initiated at IIT Hyderabad to demonstrate vertical stacking of a MEMS sensor with wafer using	

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								<p>developed platform.</p> <p>A project “Design and Characterization of CMOS based millimetre based components for 60 GHz integrated broad-band transceivers” initiated at IISc Bangalore to design key 60-GHz receiver and transmitter building blocks and develop a low noise amplifier, operational up to 20 GHz as per industry requirement.</p>	
		To protect the Intellectual Property (IP) i.e. layout-design of a Semiconductor Integrated Circuit by Registering the Design in Semiconductor Integrated Circuits Layout-Design Registry				Protection of registered Intellectual Property (IP) i.e. layout-design of a Semiconductor Integrated Circuit	Prevent infringement of IP of semiconductor integrated circuits and also to promote R&D in the semiconductor integrated circuits.	Continuing Process	<p>• Section 93 &amp; 94 of the Semiconductor Integrated Circuits Layout Design (SICLD) Act 2000 brought-into force.</p> <p>Following Gazette notification published:</p> <p>(i) Bringing-into-force section 93 &amp; 94 of the SICLD Act 2000.</p> <p>(ii) Declaration of the list of Convention Countries under section 93 of the Act</p> <p>• Following posts</p>

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								<p>created:</p> <p>(i) Registrar, Semiconductor Integrated Circuits Layout Design Registry</p> <p>(ii) Technical Member, Layout Design Appellate Board</p> <ul style="list-style-type: none"> <li>• Initiated action for transitional arrangement of Layout Design Appellate Board under Section 55 of SICLD Act 2000 in consultation with D/o Industrial Promotion and Policy and M/o Law and Justice.</li> <li>• Trained Specialized manpower under DeitY supported project : <ul style="list-style-type: none"> <li>(i) 120 manpower under M.Sc. (IC layout-design course)</li> <li>(ii) 11 manpower under P.G Diploma Course in IC Layout-Design.</li> </ul> </li> <li>• Disseminated of information on SICLD Act and the</li> </ul>	

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									<p>SICLD Registry using posters and pamphlets in the following:</p> <p>(i) conferences entitled “Indo-European Conference on Patents for Computer Implemented Inventions” at DeitY Delhi</p> <p>(ii) “IPR Workshop” at Motilal Nehru National Institute of Technology, Allahabad.</p> <p>(iii) Monthly updating of SICLD website displaying relevant information regarding SICLD Act and Registry and publishing e-Journal.</p>
1 2	<b>Convergence, Communication &amp; Strategic Electronics</b>	To undertake and support R&D projects in the area of Convergence, Communications, Strategic	-	30.00 (Incl. 2.00 Cr for NER)	-	Initiation of around 20 projects in the following area:  Next Generation Convergent	The R&D will lead to establishing indigenous capability in emerging technologies	On an average 4-5 projects are proposed to be	Following new project proposals were approved and are being implemented:-

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		Electronics & Networking Technologies				Communication technologies, Cloud Computing/ Communication over Cellular Network, Advanced Networks and Mobile Adhoc Network, LTE, beyond 4G/5G, Big Data analytics for societal applications & disaster management, Green communication, Internet of Things, Cyber Physical System, Wireless Sensor Networks, Multilingual broadcast applications, Strategic Electronics, EMI/EMC, microwave, millimeterwave and THz wireless application.		initiated. The projects are generally of 1 to 3 years duration.	-MIMO Framework for Chaos-based Sensor Networks, -Self-powered wireless chipset for building to building communication, -Tracking system for mining & coal transportation in NE , -FPGA prototype for multimedia satellite communication -Wireless communication System using THz technology, -Dual Connectivity LTE – Wifi solution, -Wireless Sensor Networks in tracking and surveillance, -MIMO in 3GPP LTE standard using soft-computing Tools -SDR Development Platform for researchers and academia

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									There are about 50 ongoing projects that are under implementation and are being monitored by respective PRSG.
1 3	<b>Media Lab Asia</b>	To undertake and facilitate Research, Development and deployment activities	-	26.27 (Incl. 3.00 Cr for NER)	-	<ul style="list-style-type: none"> <li>• 4 projects will be initiated in the following areas:</li> <li>ICT – Empowerment of Differently abled</li> <li>ICT – Healthcare</li> <li>ICT – Livelihood enhancement</li> <li>ICT – Education</li> </ul>	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 2013  2 projects will be initiated during Oct 2013 – Mar 2014	<b>Project Initiated:</b> 1. Deployment of Tele-ophthalmology at Venu Eye Institute & Research Centre Delhi and its 16 remote centres in UP, Haryana, Uttarakhand and Rajasthan 2. Deployment of ICT in 100 schools of Nagaland 3. Deployment of Tele-ophthalmology at PBMA’s HV Desai Specialty Eye Hospital Pune and its 3 vision centres

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								<p>4. Deployment of Chic CAD for Phulkari in Bassi Pathana, District Fatehgarh Sahib, Punjab</p> <p>5. Establishment of ICT based resource centre at Lallapura craft cluster, Varanasi.</p>	
						<ul style="list-style-type: none"> <li>• 4 projects will be completed</li> </ul>	<p>The projects will be completed as per schedule .</p>	<p><b><u>Project Completed:</u></b></p> <ol style="list-style-type: none"> <li>1. A Comprehensive Satellite / Internet based national Network for education, Training and empowerment of the Disabled</li> <li>2. Deployment of Chic CAD for Phulkari in Bassi Pathana, District Fatehgarh Sahib, Punjab</li> <li>3. Deployment of Tele-</li> </ol>	

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									<p>ophthalmology at Venu Eye Institute &amp; Research Centre Delhi and its 16 remote centres in UP, Haryana, Uttarakhand and Rajasthan</p> <p>4. Deployment of Tele-ophthalmology at PBMA's HV Desai Specialty Eye Hospital Pune and its 3 vision centres</p> <p>5. Development of a set of alternative ICT models based on a study and analysis of the major ICT initiatives in agriculture in India to meet the information need of the Indian farmers.</p>
1	<b>Components</b>	• To support	0.60	30.00	16.40	• To initiate new projects	• For medical &	May	Thulium doped

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4	<b>&amp; Materials Development Programme</b>	infrastructure development and R&D and technology development projects for the development of Electronic Materials at C-MET •To support development and initiatives to eradicate the issues related to electronics products affecting the environment •To nurture photonic technologies relevant in IT and optical communication as well as develop technologies in the broader application areas		(Incl. 1.00 Cr. for NER)		on thulium doped ‘all-fiber’ MOPA for medical application, fiber Bragg grating sensor for condition monitoring of railway catenary-pantograph structure, polymer nano-composite based photovoltaic, setting up of pilot scale production of aerogel supercapacitors for electronic applications, graphene supercapacitors for power electronics.	sensor application (railway), green energy generation, energy storage.	2013	MOPA, catenary pantograph, grapheme supercapacitor, energy density Lithium-ion cell/ Battery project started.
						• To successfully complete the on-going projects on broadband EMI shielding, carbon aerocapacitor, hybrid solar cells, environmentally sound metal recovery from PCB, piezoelectric multilayer actuator micro valve	• To develop supercapacitor, Piezoelctric Multilayer Actuator, broadband EMI shielding, green energy generation,	Dec. 2013	Broadband EMI shielding and solar cell e-waste recycling projects successfully completed
						• To monitor the progress of on-going projects on	• To develop recycling	March 2014	The project Nano-PZT component

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		of Photonics through sponsored R & D projects				pilot production of Nano-PZT compositions & piezoceramic components, polymer based chemical sensor, flexible thin film transistors, value added products from WEEE plastic prototypes aprons, glass sheets and curtains from lead free x-ray absorbing materials, based Photonic Glasses are being developed at CMET, Pune, University of Pune, Solar cells: based on chemical bath deposition, Nature-inspired low cost organic and their nano composites based, & quantum dots and organic	technology for PCB, & plastics, green energy generation, flexible transistor, lead free x-ray absorbing apron		successfully completed, on going projects on solar cell based on CBD technique, Nature-inspired low cost organic and their nano composites and hybrid solar cells based on Quantum Dots and Organic semiconductors are running successfully.
						<ul style="list-style-type: none"> <li>Advanced optoelectronic applications, sustainability and up gradation of RoHS test</li> </ul>	<ul style="list-style-type: none"> <li>To develop efficient lighting for energy saving, optical sensing for high temperature</li> </ul>	May 2014	Blue OLED project, distributed sensing optical fiber project, Light extraction for white OLED projects

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						laboratory, MWCNT filled polycarbonate/ polypropylene polymer Nan composites fore.m. interference shield, Fabrication of blue OLED, distributed strain & temperature sensing optical fibers, light extraction technology for white OLED, UV emitting diodes, optical isolators, Fiber bragg grating for high temperature measurement, high speed modal wavefront sensor of light beams & photonic research fellowship programme	& wave front sensing & manpower development		completed successfully, UV LED project, high speed wavefront sensor, photnics research fellowship, RoHS test laboratory upgradation, Development of MWCNT filled polycarbonate project running successfully
	<b>C-MET</b>	To support R & D projects for the development of Electronic Materials				<ul style="list-style-type: none"> <li>• To continue the core programme in the following areas:</li> <li>• Integrated Electronics &amp; 3D Nano-scale Packaging</li> <li>• Nano scale Materials and Composites for Myriad Applications</li> <li>• Ultra High Purity</li> </ul>	<ul style="list-style-type: none"> <li>• Process for Integrated Glass-Ceramic Packaging</li> <li>• Generation of Nano-powders, Nanocomposite &amp; Quantum dots of metals/semiconductors/ for</li> </ul>	March 2014	<ul style="list-style-type: none"> <li>• Developed Mid-k dielectric materials with 24-32 dielectric constants.</li> <li>• Fabricated cryocooler devices showed temperature drop in the range of 30-33K.</li> <li>• Fine tuned silver</li> </ul>

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						<p>Materials(Metals, Alloys&amp; Refractory Materials) and Compound Semiconductors</p> <ul style="list-style-type: none"> <li>• E-waste management</li> <li>• NABL accredited facilities</li> <li>• Materials for Renewable Energy</li> <li>• Actuators and Sensors</li> </ul>	<p>Electronics Technology and allied applications</p> <ul style="list-style-type: none"> <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>paste composition used in fabrication of LTCC packages.</p> <ul style="list-style-type: none"> <li>• Repeatability study conducted on RuO<sub>2</sub> piezoresistor compositions on steel and alumina substrate.</li> <li>• Photoimageable photo conductor paste prepared using Cu doped CdS showed better photoconducting performance.</li> <li>• Optimized SMECH process parameters for 8"x8" size microwave substrates samples.</li> <li>• Developed Q semiconductor-glass nano composites at 4Kg scale with CdSe doping to achieve 715nm cut off .</li> </ul>
							March 2014	<ul style="list-style-type: none"> <li>• AERB test result for A4 size sheets coated with BaBi<sub>2</sub>S<sub>3</sub> powder</li> </ul>	

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Sl. NO.	Name of Scheme/ Programme	Objective Outcome	Outlay 2013-14 (Rs. In Crore)			Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Process/ Time Basis	Status as on March, 2014
			Non-Plan	Plan Budget	Comp IEBR				
								<p>&amp; SBR latex shows targeted 0.25 mm Pb equivalence.</p> <ul style="list-style-type: none"> <li>• Synthesized Nano-aluminum powder by variation of process parameters.</li> <li>• 6H &amp; 4H SiC single crystals have been grown successfully.</li> <li>• Prepared 5.5 kg Hafnium sponge.</li> <li>• Carried out feasibility trials on germanium homogenization/ crystallization.</li> <li>• Up-scaling trials were conducted on ultra high purity gallium for yield improvement.</li> <li>• E-waste calciner was designed, fabricated and erected at e-parisara, Bangalore. The pyrolyser is working satisfactorily for normal PCB's.</li> </ul>	

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			Non-Plan	Plan Budget	Comp IEBR				
								<ul style="list-style-type: none"> <li>• Developed analytical testing facilities and SoPS. Samples tested from nearly 40 industries for RoHS certification. Conducted four industry meets at various places to establish the sustainability of market.</li> <li>• Synthesized <math>ZnIn_2S_4</math> and <math>CdIn_2S_4</math> for Hydrogen Sulphide splitting trials in presence of natural sunlight.</li> </ul>	
								<ul style="list-style-type: none"> <li>• Prepared the high pure salts viz., tellurium oxide, cadmium sulphate, cadmium chloride, etc. for fabricating CdS/CdTe solar cells.</li> <li>• Fabricated aerocapacitors of capacitance ~25F showed good electrical</li> </ul>	

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			Non-Plan	Plan Budget	Comp IEBR				
								<p>performances.</p> <ul style="list-style-type: none"> <li>• Prepared Titania nanorods for the DSSC photoanodes .</li> <li>• Fabricated a graphene supercapacitor having specific capacitance of 60-80F and 1 to 6 Ohm ESR .</li> <li>• Prepared 10 x 10 cm of transparent PVDF film for acoustic actuators and sensor.</li> <li>• Fabricated ML stack actuator exhibiting expected properties sent to LEOS, ISRO for evaluation.</li> <li>• Reproducibility of characteristics of PZT rings for the underwater SONAR transducers applications have been established at system level (at NPOL, Cochin). 10 Kgs of piezoceramic composition equivalent to PZT 5J have been prepared as</li> </ul>	

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			Non-Plan	Plan Budget	Comp IEBR				
									per CEL, Sahibabad specification.
15	<b>R&amp;D in Medical Electronics &amp; Health Informatics (erstwhile Electronics in Health &amp; Telemedicine)</b>	To promote development of medical electronic equipment, rehabilitation devices and Health Informatics Systems	-	10.00 (Incl. 1.00 Cr. for NER)	-	<p>Completion of benchmarking of Batch Fabrication Facility for Linear Accelerator (LINAC) machines at SAMEER, Mumbai</p> <p>Signing of TOT agreement of indigenously developed medical electronics products.</p>	<p>Facility for production of LINAC machines will become operational</p> <p>Commercialisation of LINAC machine technology will be initiated.</p>	<p>June 2013</p> <p>June 2013</p>	<p>Facility for production of LINAC tubes for Linac machines has been established. The benchmarking of the facility by third party is in progress.</p> <p>The 6 MeV Linac technology has been transferred through a Transfer of Technology (TOT) agreement signed between SAMEER, Mumbai and M/s Panacea Medical Technologies Pvt. Ltd., Bangalore. Out of the total ToT fee of Rs.100.50 Lakhs, payment of first instalment of ToT fee Rs.30.15 lakhs has been received by SAMEER Mumbai and bank guarantee for subsequent instalments amounting to Rs.40.20</p>

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			Non-Plan	Plan Budget	Comp IEBR				
						Deployment of four Linear Accelerator machines for cancer treatment.	Creation of facility for cancer treatment at four hospitals	September 2013	Lakhs and Rs.30.15 lakhs have also been received.  Fabrication, integration and testing of of Linac machines have been completed at SAMEER.The The Siddharth-3 Linac machine has been installed at Indore hospital has been installed and is under AERB clearance for patient treatment Due to excessive delays foreseen at Vadamalayan hospital, Madurai it has been decided that the Linac meant for Vadamalayan Hospital will be commissioned at MNJ Regional Cancer hospital at Hyderabad Since commissioning of the LINAC machine is linked with site preparation at hospitals and approval

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			Non-Plan	Plan Budget	Comp IEBR				
						Initiation of new R&D projects in the area of Medical Electronics & Health Informatics a Health Informatics areas	Launching of new projects in identified thrust areas	March 2014	by AERB, the Linac machines will be commissioned on completion of these activities at the hospital sites, .  Two new projects have been initiated (i) Development of a decision-support system and self-learning tool for radiologists (ii) Computer Aided Detection Systems for Mammograms.
16	<b>OTHERS</b>	Sectt. Economic Services	32.30	45.00	-	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/	0.50	-	-	To organise seminars/	Promotion of		

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			Non-Plan	Plan Budget	Comp IEBR				
		Workshops)				workshops for development of electronics in IT	Electronics and IT-ITeS Industry		