## Chapter – IV

**Review of Past Performance**
**Department of Information Technology**

**Outcome Budget 2005-06  -   Status of implementation / progress during 2005-06**

| S.No | Scheme Name | Objective/Outcome | Outlay | Quantifiable Deliverables | Processes/ Timelines | Remarks/ Risk | Status as on 31.03.2006 |
|---|---|---|---|---|---|---|---|
| | **R&D PROGRAMMES** | | | | | | |
| 1 | Microelectronics & Nanotech Dev Programme | Setting up of Nanoelectronics Centres at IITB & IISc, Bangalore | 40.00 | There will be 11 deliverables. <br><br>**IITB:** Sub 100 nm CMOS Process Development; Nanosystems for Healthcare and Environmental Monitoring; Organic and Biopolymer Devices; GaN Devices; Characterization, Modeling and Simulation of Nanoelectronics Devices <br><br>**IISc:** Magnetic materials for LC Resonator; Acoustic sensor; Ferroelectrics for FRAMs and Phase shifters; Rare earth metal oxide for MOS gate dielectric; Molecular Rectifier Based on Organic Thin Films (Self Assembled Monolayers and LB films <br><br>**Joint :** RF Oscillator <br> The quantifiable deliverables will start coming out from end of third year onwards from the date of initiation. | Preparation, evaluation and finalization of tenders for the procurement of capital equipments. | EFC has approved the proposal on 6.7.2005. | Release of Rs. 13.77 crore each to IIT-Bombay and IISc.-Bangalore as part of the first installment .has been done. Action has been initiated for the procurement of Capital Goods. |

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| 2 | Technology Development Council | **Industrial Electronics Promotion Transport & Power Electronics**<br><br>• Development and promotion of application of Electronics and IT in the field of Industrial Electronics.<br><br>• Specific application development thrust for the Transport and Power Sector.<br><br>• Cost-effective technology solutions and field demonstrations to meet local conditions and to demonstrate benefits<br><br>• To strengthen local base for design, manpower development and to assist Indian SME sector to be competitive in the business. | 17.00 | **National Mission on Power Electronics Technology Project**<br><br>• Completion of $1^{st}$ phase field trials of the prototype on the short-term R&D project on 'Universal IGBT Gate Driver'<br><br>• First Industry-Academic Meet for Awareness Creation<br><br>• Initiation of Futuristic R&D project on Full Spectrum PE Simulator<br><br>• Holding of first short-term course for industry/ engineering colleges<br><br>**Other R&D Projects**,<br><br>• Completion of the Advanced Traffic Control System project for Pune City and TOT to prospective manufacturers<br><br>• Completion with successful demonstration of the WebNC project at IIT-Mumbai providing a step forward towards Tele-manufacturing.<br><br>• Completion with successful demonstration of Black Box for Automobiles with possible TOT<br><br>• Initiation of a project on Development and Application of Imaging/Vision Technology for Steel Plants | Prototype development and deployment March 2006<br><br>Introduction with academia / industry done in June 2005<br><br>Working Group approval - Sept 2005<br><br>September, 2005<br><br>System integration, testing and discussions with the industry Sept.-Dec. 2005<br><br>Prototype development and testing Sept.-Dec. 2005<br><br>System integration, testing and discussions with the industry Dec. 2005<br><br>Approval of Working Group Sept 2005 | | Prototype development completed. Design modification undertaken. First meet arranged at Bengal Engg. Univ, Howrah on 17-18 June, 2005. Planning for $2^{nd}$ Meet in 2006 done.<br><br>Project started in Sept.2005<br><br>Two short-term courses held in October 2005 and Jan.2006 at IIT-Bombay and IISc-Bangalore respectively.<br><br>Project implemented and final commissioning completed in Feb.2006<br><br>Project completed by March, 2006.<br><br>Delayed due to design modification. Expected to be completed by October 2006. Project initiated in October 2005 |

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| 3 | Convergence, Communication & Strategic Electronics | To undertake R&D in Convergence, Communications & Broadband Technologies | 6.00 | Initiate projects in Wireless Communications, software define Radio, Converged Access Devices & embedded software applications | Two projects in each quarter Approval of Working Group | | Four projects were approved namely (a) Amateur Radio Communication for Coastal Areas for fishermen by NIAR, Hyderabad, (b) UWB transceiver & antenna at BEL, Bangalore (c) Autonomous Vertical Profiler at NIO, Goa. (d) Design & Dev. Of Wireless Sensor networks at IIT Bombay. <br><br> A number of new projects are being processed for approval. |
| 4 | Components & Material Development Programme | • To support R&D projects for development of electronics materials <br><br> • To set-up facilities for characterization of electronics materials, prototyping and testing of devices <br><br> • To develop photonic core technologies and applications | 12.60 | • Strengthening the infrastructure and R&D activities of C-MET | On going activity | | The process equipment have been installed and infrastructure for fabricating Low Temperature Co-fired Ceramic (LTCC) at prototype scale is established at C-MET, Pune. |

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| | | | | • Support 2-3 new R&D projects for data storage, display devices and microwave devices | December 2005 Approval of Working Group | | Out of the two proposals approved by the Working Group, one proposal was funded by DIT. |
| | | | | • Upgradation of Optoelectronics packaging centre with laser welding facility for active device pigtailing and packaging | Identification of incremental equipment Feb 2006 | | Auto-alignment system with Laser Weld made operational. Chips and fiber assemblies procured, few PLCs packaged and tested. Obtaining ISO certification . |
| | | | | • System integration of optical amplifier | Interconnecting and testing of sub-systems March 2006 | | Design and realization of optical Amplifier integration complete. Testing in test beds carried out. |
| 5 | Electronics in Health | • To promote application of electronics and IT in Healthcare and to develop cost effective medical electronics equipment<br>• To develop IT based products for benefit of disabled persons | 14.00 | • Initiation of project for establishment of a facility for batch production of Linac Tubes and Linac Machines | SFC in August 2005 | | • Ist installment of grant-in-aid has been released in Dec., 2005<br>• Consultant has been selected to carry out the construction of the building & initiation of procurement of equipment |
| | | | | • Initiation of phase-II of Jai Vigyan project for 6 MV Linac System | Approval of Steering Committee March 2006 | | • The proposal for the phase –II of Jai Vigyan project for 6 MV Linac machine is being evolved. |

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| 6 | Technology Dev for Indian Languages | • Information Processing Tools in all Indian Languages comprising of Spell Checkers, dictionaries, Messaging system, utilities & Web design and content management tools<br><br>• Optical Character Recognition (OCR) Systems in all Indian Languages with multiple font supports<br><br>• Machine Translation Systems | 7.00 | • Software Tools and Fonts in Hindi and Tamil (Fonts, OCR, Spell Checker, Dictionary, etc.,) Fonts and Tools in Tamil language released in April 2005 and Hindi in June 2005.<br><br>• 25 Fonts in Malayalam, Gurumukhi and Bangla<br><br>• 15 Fonts in Kannada, Telugu and Gujrati; 20 Fonts in Oriya, Bengali, Assamese<br><br>• OCR in Gurumukhi, Tamil, Devanagari, Telugu, Oriya<br><br>• Spell Checkers in Hindi<br><br>• Punjabi-English, Urdu-Kashmiri-Hindi Word Processor<br><br>• Translation Support System (English-Hindi)<br><br>• Marathi-Hindi, Gurumukhi-Shahmukhi Transliteration | April / June 2005 Completed<br><br>November 2005<br><br>March 2006<br><br>February 2006<br><br>July 2005<br><br>December 2005<br><br>August 2005<br><br>November 2005 | | Indian Language fonts and software tools (Fonts, OCR , Spell-Checker , Dictionary etc ) for Tamil, Hindi and Telugu languages was released.<br><br>Software Tools & fonts for Punjabi, Urdu languages are ready for release.<br><br>Alpha version ready<br><br>Developed<br><br>Developed<br><br>Alpha version developed |

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| 7 | IPR Promotion Programme | To promote IPR culture in India to make it TRIPs conformant | 1.00 | • IPR awareness by organizing IPR clinics - four clinics<br><br>• IPR facilitation<br><br>• Development of IPR tools, technologies | June, September, December 2005 and Feb 2006<br><br>25 cases during the year<br>5 projects on going,<br>3 new projects – Dec'05 | | • 3 Clinics organized in Kanpur, Bhopal and C-DAC Noida<br>• IPR Cases Filed –28 (12 Patent, 14 Copyrights and 2 Trademarks)<br>• On-going 5 running satisfactorily<br>• 3 Projects evolved each in Delhi, Chandigarh and Chennai |
| 8 | E-Commerce & Info-Security | To promote R&D in information security through supporting projects at recognized R&D organizations to develop national capability and skill | 8.00 | Development/enhancement of skill and expertise in areas like:<br>• Development of survivable architecture<br>• Fore-warning systems and services<br>• Vulnerability/threat analysis and incident handling<br>• Cryptography and cryptanalysis<br>• Cyber-forensics<br>• Biometrics identification/authentication | All projects are time bound with specific milestones & these are monitored periodically by expert groups. | | • 34 ongoing projects were reviewed by expert groups. 3projects have been completed which addressed the subjects of secure smart card operating system, storage securing device with intrusion detection capabilities and PKI based wireless security.<br>• 7 new projects were initiated. These projects cover software security, privacy violation detect-ion system, detection of denial of service attacks, protocols for secure communication, robust watermaking of digital images, personal identification using multimodal and biometrics and cryptographic primitives. |

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| | | | | | | | |
| 9 | IT for Masses (Telemedicine) | Demonstrate use of ICT to provide specialist consultation for diagnosis and treatment in rural/remote locations | 8.00 | 1.Establishing advanced hospital management system for efficient hospital administration and improved patient health care at<br><br>- Sewagram (Maharashtra)<br><br><br><br><br><br>- Imphal (Manipur)<br><br><br><br><br><br>2.Telemedicine networks connecting specialist hospitals with rural hospitals in various parts of the country like<br>- Kerala<br><br><br><br>- Tripura | Installation of hardware, software, networking and testing<br><br>December 2005<br><br><br><br><br><br>December 2006<br><br><br><br><br><br>Installation of hardware, software, connectivity and patients consultation<br><br>October 2005<br><br><br>March 2006 | The progress is critically dependent on state governments for providing site and logistics support at hospitals. | Installation and testing of Advanced Hospital Management System at Mahatma Gandhi Institute of Medical Sciences, Sewagram completed. Final trials in progress. Training being imparted to users.<br><br>Project launched and procurement of hardware / software processed. Steps for Local Area Networking are underway.<br><br>Project completed at Regional Cancer Centre, Trivandrum and its five peripheral centers. Being effectively used by cancer patients from remote locations of Kerala. Telemedicine facility established in two referral centers at GB Pant and IGM Hospital, Agartala |

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| | | | | | | | and four nodal centers. A large number of patients of distant nodal centers have already been provided medical services under the project. Another project for deployment of Telemedicine in remote locations in Tripura initiated during March 2006. |
| | | | | - West Bengal | December 2006 | | Three referral and six nodal centers provided with Telemedicine facilities. Patient consultations being provided from these centres. Deployment of Telemedicine facilities at five referral hospitals and nine district hospitals of West Bengal is under implementation. |
| | | | | - Himachal Pradesh | April 2007 | | Telemedicine facility is currently being provided by Indira Gandhi Medical College, Shimla and is under establishment in Mahatma Gandhi Referral Hospital, Rampur Khaneri, and Civil Hospital, Rohru, in Shimla. |

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| 10. | Media Lab Asia | Research and innovate ICT relevant for the common man and to promote deployment of research projects in rural and remote areas to serve the poor and needy population | 11.00 | • Completion/follow-up on 8 on-going projects | Dec 2005 | Subject to restructuring of MLA | • Pilot deployment of Chicken Cad software taken up with an NGO at Lucknow.<br><br>• The 'Ashwini' project has been implemented collaboratively with Byrraju Foundation and IIT Kanpur. Fifteen village centres have been connected using broadband wireless technologies in Andhra Pradesh in point to multipoint/mesh configuration. Services on education, primary healthcare, agriculture, language learning for rural women, rural BPO etc. have been started using this network. President of India visited Byrraju Foundation and appreciated operation of 'ASHWINI' in providing rural services. |

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| | | | | • Continuation/progress of 14 on-going projects | March 2006 | | • The 'e-Sagu' project has been deployed for providing personalized agro-advice for 5000 farms in about 38 villages in the State of Andhra Pradesh for the crops of Cotton, Chilies, Paddy, Fish, and Groundnut etc. A revenue model has been tried in order to develop a sustainable model of deployment.<br><br>The technology developed through the "Peer to Peer Mesh Network" project at IIT Madras has been taken up for transfer to the industry. |
| | | | | • Initiation of 15 new projects – use of ICT in the areas of Health, education, agriculture, empowerment of disabled and livelihood | March 2006 | | Projects undertaken at different institutions are progressing satisfactorily. |
| | | | | • Deployment/scaling of projects in areas of rural connectivity, health, education, empowerment of disabled. | March 2006 | | Ten new projects were initiated in the thrust areas of Media Lab Asia. |

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|      |             |                   |        | • Workshop/Conference on ICT for development | March 2006 |               | Media Lab Asia, on invitation from the World Information Technology Forum (WITFOR) under UNESCO, participated in the WITFOR-2005 conference from August 31 to September 2, 2005 at Gaborone, Botswana. In the Conference Declaration, 'GramPatra' was identified as a potential technology for providing communication infrastructure. Media Lab Asia co-organised the two days National Seminar on 'e-Learning and e-Learning Technologies' with C-DAC at Hyderabad in August, 2005. |

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| | **II. INFRASTRUCTURE DEVELOPMENT** | | | | | | |
| 11 | Vidya Vahini' & 'Gyan Vahini' Programme | To integrate internet and intranet in learning environment | 1.50 | Recurring cost of international bandwidth to 140 Schools and 7 Training Institutes under Vidya Vahini programme. | On-going | | ERNET has provided Broadband VSAT link and ICT infrastructure in 140 schools which resulted in better quality of education, integration of technology into the learning environment, exchange of skills, knowledge and sharing of resources among schools, faculty development and linkage of schools. Over 1225 teachers were trained in computer applications, course development and other technology related aspects. |

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| 12 | STQC | Establishment of Quality Assurance Infrastructure in the country to facilitate quality products & services at par with global standards and practices | 42.00 | 1.Establish facilities for Security product, Testing & Certification | March, 2006 | Availability of escalated outlay (Rs.8.85 crore in place of Rs.4.85 crore) and recruitment of skilled personnel on contract basis as per project document (about 20 persons). | Escalation of project approved. Other work is in progress. Training of first stage is going to start in July 2006. |
| | | | | 2.To develop a suitable Quality Assurance Framework (Software, Security & Service Quality and infrastructure for Testing & Certification of e-Governance products). | September, 2005 | | e-Government QA framework is complete and accepted for testing and certification. CA framework drafting is in progress. |
| | | | | 3.To introduce Internationally Accredited Training Programmes in Quality Management & Test Engineering. | March, 2006 | | QMS Lead Assessor Programme is now accredited by IRCA, UK. STQC has also got a similar approval for its Information Security Management System LA programme. First surveillance is successfully completed. |

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| | | | | 4.Establish new facilities to cater for Testing & Calibration of state-of-the-art products with emerging technologies. | On continual basis | | Continuing |
| | | | | 5.To support establishment of Regulatory Framework in the area of Safety & EMI/EMC in Electronics & IT. | December 2005 | | Subcommittee has been formed for identification of product, standards & infrastructure. |
| | | | | 6.Earn Rs.35 crore as revenue earning to reach the break even point | March, 2006 | | Rs. 35.25 crore i.e. 100% earned. |
| 13 | Digital DNA Park | Setting up of Bio-IT Park in the form of a Public Private partnership modal | 10.00 | • Creation of infrastructure facility including common computing facility for the Bio-tech/ Bio-informatics/IT sector | EFC approval March 2007 | To start with, the facility may be sub-optimally utilised. | The Government has approved proposal for an outlay of Rs. 95.82 crore for 5 years. |

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| 14 | Electronic Governance | E-Governance Facilitating and catalyzing e-governance packages in the Central and State Governments through implementation of the National E-Governance Plan | 300.00 | **State Wide Area Networks**<br>• SWAN proposals from 14 States have been sanctioned with a total outlay of Rs.1027.63 crore and Rs.206 crore has been released as the first installment.<br>• SWAN proposals from 8 more States/UTs have been received and are currently being processed for sanction.<br>• A Workshop on SWAN implementation was organized by the Department on 30th May 2005. IT Secretaries from 20 States and representatives from NIC, BSNL, ERNET, STPI & TCIL participated in the Workshop. Various implementation issues were discussed in the Workshop.<br><br>**Common Services Centres**<br>• Draft Policy Guidelines for providing support for establishment of Common Services Centres (CSCs) for delivery of services have been formulated and are being considered for approval. | Approval of Empowered Committee August 2005<br><br>May 2005 Completed<br><br>Approval of M(CIT) July 2005 | | SWAN proposals from 22 States/UTs have been sanctioned with a DIT's total outlay of Rs. 1507.77 Cr and Rs 315.30 Cr has been released. The 22 States/UTs are: Andhra Pradesh, Assam, Chandigarh, Chhattisgarh, Delhi, Gujarat, Haryana, Himachal Pradesh, Jharkhand' Karnataka, Kerala, Madhya Pradesh, Maharashtra, Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttaranchal and West Bengal.<br><br>• A draft framework for establishment of 100,000 CSCs across the country has been finalized and posted on DIT Website to make it available to all stakeholders. |

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| | | | | • A process of consultation with State Governments has been initiated to work out modalities for establishing CSCs. | | | • Draft Framework was discussed in the one day conference held with State Chief Secretaries & State IT Secretaries on 19th October, 2005.<br><br>• National Level Service Agency (NLSA) has been selected to assist DIT in formulating the scheme for the establishment of Common Service Centre (CSCs) contract has been finalized and work order issued for working out detailed proposal for the CSCs scheme. |
| | | | | **State Data Centres**<br><br>• The Policy Guidelines on State Data Centres are under formulation. Broad guidelines prepared and are being discussed with experts from States and NIC. | Approval of M(CIT) August 2005 | | • Policy Guidelines on State Data Centres is under formulation. Security related issues are being examined with various stakeholders |
| | | | | **Standards**<br><br>• The Core Group on Standards has submitted its report on the Institutional mechanism in E-Governance.<br>• The Core Group has identified the | Approval of M(CIT) September 2005 | | • Institutional mechanism for evolving and enforcement of Standards for NeGP.<br>▪ Press release on |

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| | | | | priority areas for standards in E-Governance. The priority areas identified are – Technical / Interoperability, Quality and Documentation, Localization, Meta Data & Data and Security Standards. The Report is under consideration for implementation. | | | standards for e-Governance<br>▪ An Apex Body & PRSG have been constituted.<br><br>▪ An "e-Governance Standards Division" has been constituted in NIC and STQC to steer the process of evolving the standards.<br><br>▪ Portal on e-Governance Standards has been developed and hosted at http://egovstandards.gov.in/<br><br>▪ Preparation of an Approach Papers on all five areas of Standards is complete<br><br>▪ 4 Working Groups have been constituted.<br><br>❖ Metadata & Data Standards<br><br>❖ Technical Standards |

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| | | | | | | | ❖ Quality & Documentation<br><br>❖ Network & Information security<br><br>▪ Preliminary Brainstorming sessions were conducted in<br><br>❖ e-Governance Architecture & Standards - IIM Bangalore; Network & Information Security - IIT Chennai; Metadata and Data Standards – Chennai; Localisation and Language Technology Standards - Chennai.<br><br>▪ The first meeting of "Technical Standards and E-Governance Architecture" was held on 3$^{rd}$ March 2006. |

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| | | | | **India Portal**<br>• NIC has submitted an SFC proposal for the implementation of India Portal Project and the same is under consideration. | SFC approval September 2005 | | ▪ Deliberations on Enterprise Architecture & Standards Taxonomy are being held within the sub-groups constituted during the first Working Group meeting.<br><br>▪ The First version of Portal is operational and was released by Hon'ble MCIT on 10th Nov'05 and the portal address is http://india.gov.in/<br><br>▪ PRSG constituted, First PRSG held on 17 feb 2006.<br><br>▪ National Portal Coordinators identified from 29 States and 54 Central Ministries/Dept. |

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| | | | | | | | ▪ NIC has carried out a detailed trend analysis to find out the statistics pertaining to hits, page-views, Visitors, usages patterns and other such details about the Portal<br><br>▪ A one-day workshop of the National Portal Co-coordinators from Central Govt. Ministries/ Departments was held on 5th Jan 2006.<br><br>▪ Electronic Newsletter is sent every month to all registered users which is about 7354<br><br>▪ Average hits per day, which is around 4.5 Lakhs hits. |

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| | | | | **E-Governance Gateway** <br><br> • NISG has been identified as the implementing agency for the Pilot and to validate the gateway standards in consultation with the industry as well as prepare the RFP (request for proposal) for the operational gateway. <br><br> • An amount of Rs 58 lakhs has been released for the Pilot project. The Pilot Gateway is likely to be up by July 2005. | Specification validation on Pilot, selection of an agency to build and run Gateway March 2006 <br><br> July 2005 | | • 7th Meeting of the Advisory Group on NSDG held on 14th Feb 2006 to discuss on the Gateway Standards & Specs, governing structure & legal framework including the current status. <br><br> • Preparation of the RFP and Business Models & Business Case Analysis in progress. <br><br> • Individual one-to-one meetings / discussions were conducted with various stakeholder departments such as CBEC, CBDT, NIC, on using the Gateway as part of their e-Governance service delivery projects. |

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|  |  |  |  | **Apex Committee Meetings**<br>• Line Ministries/Departments have been advised to define the services and service levels of their respective Mission Mode Projects. DIT has appointed M/S PWC as consultant to assist them in this task. The draft report of the consultant giving details of services and service level has been received. Service levels in respect of the Mission Mode Projects of Central Excise, Property Registration, Road Transport, Municipalities, Treasuries, E-Biz, Employment Exchanges have been finalized with the concerned Line Ministries. | August 2005 |  | The report of the consultant has been circulated to all the Line Ministries requesting them to incorporate the services and service levels suggested in the report as part of deliverables of their MMPs.<br><br>The E-Governance Programme Management Unit (PMU) has been set up in the DIT and this is now in the process of being augmented with induction of professionals from the public and private sector. NISG services have been hired to assist the DIT in this process. This PMU will be providing Secretarial support to the Apex Committee.<br><br>Draft Note for the Cabinet for seeking Approval for the 'Approach and the Key Components of the National e-Governance Plan (NEGP)' has been prepared and comments of various inputs incorporated. |

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| | | | | **Horizontal Transfer of Successful e-Governance Initiatives**<br><br>• Land Records Computerization Projects : Pilot Project implementations initiated in the State of Jharkhand and Mizoram<br><br>• Computerization of Property Registration : Pilot Project implementations initiated in the State of Mizoram<br><br>• Rollout of Pilot in entire State: Rollout of pilot on Computerization of Land Record, Properties Registration and Transport system at RTOs in entire State of Punjab.<br><br>**Capacity Building**<br><br>Preparation of Details Project Report on Capacity Building Scheme for EFC and CCEA approvals | April 2007<br><br><br><br><br><br><br><br><br><br><br><br>December, 2006 | | First Release made in the month of March 06 to commence the work. Following project initiatives the states level Monitoring Committee meeting also held.<br><br>Administrative Approval issued in March06. The project has made a good beginning<br><br><br><br>Details Project Report on Capacity Building Scheme has been received from States Government.<br><br>These proposals are being consolidated in the form of CB Scheme covering all the States / UTs for government Approval. |

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| 15 | IT Act/Certification & Network Security | • Creating trust in electronic environment<br>• Implementation of IT Act<br>• Enhancing Cyber Security | 7.00 | • More e-Governance packages to make use of Digital Signature | On-going activity | | The MCA 21 project, a nationally important e-Governance initiative was launched in March 2006. CCA provided support for resolving technical issues related to integration of Digital Signature Certificates. |
| | | | | • Training judiciary and law enforcement agencies in Cyber Crime and Forensic | On-going activity | | A five day course on Digital Signature, Cyber Crime and Cyber Forensics was held during 20th –24th March, 2006. |
| | | | | • Enhancing cyber security through proactive measures and responding to security incidents | On-going activity | | CERT-In has emerged as a nodal agency to put in place a National Cyber Security Assurance Framework for the protection of Government cyber space and critical infrastructure. More and more organizations are active in reducing vulnerabilities in their computer systems and networks; in taking proactive measures to protect cyberspace and |

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| | | | | | | | implement best practices for security in their organizations. Thus, mitigation of threats reduction in vulnerability protection and cyberspace are the direct outcome of the activities and role of CERT-In. |
| 16 | Community Information Centres (CIC) | • To reduce the digital divide by providing internet access and IT enabled services to the community at large and to facilitate citizen interface with the Government. | 50.00 | • 487 CICs at Block level in the North Eastern States and Sikkim established. | -- | State Govt interest Sustainability of CICs Limited local content Maintenance, Technology becoming obsolete after few years | 487 CICs are operational and providing services. Setting up of 68 additional CICs in newly created blocks of NE under progress. |
| | | | | • 60 CICs in J&K operational, balance 75 to be made operational | October 2005 Site preparation, system installation and Internet connectivity | | 116 CICs are operational and providing services. Remaining CICs will be operational by December 2006. |
| | | | | • Setting up of 41 CICs in Andaman & Nicobar | January 2006 | | 2 CICs operational in A&N Islands. |
| | | | | • Setting up of 30 CICs in Lakshadweep | January 2006 | | Hardware and software procured. All CICs of A&N and Lakshadweep will be operational by end September 2006 |

| S.No | Scheme Name | Objective/Outcome | Outlay | Quantifiable Deliverables | Processes/ Timelines | Remarks/ Risk | Status as on 31.03.2006 |
|---|---|---|---|---|---|---|---|
| 17 | Setting-up of Megafab | Seed money for creating a Special Purpose Vehicle for establishing a Megafab in Public Private Partnership mode | 10.00 | | | | For setting up a Megafab, a nominal provision of Rs. 10 crore was made in the budget to be used as SPV, if required. At present there is no move for the same. |
| | **III. HUMAN RESOURCE DEVELOPMENT** | | | | | | |
| 18 | Manpower Development | Human Resource Development and awareness in Information Security. Information Security Curriculum at B.Tech, M.Tech and research level, training of system administrators, Govt. Officers | 20.00 | • Identification of nine Resource Centres and 35 participating institutes (PIs) and NICSI as Implementing Agency. <br><br> • Approvals for conducting Information Security courses <br><br> • Course recognition <br><br><br> • Set up of labs and infrastructure | Completed <br><br><br><br> Governing Councils/ Board of RCs/PIs approval, MOUs October 2005 Approvals from AICTE/ UGC - April 2006 <br><br> Tendering, procurement, installation - Feb 2006 | | Completed <br><br><br><br> MOUs with 34 PIs and 5 RCs have been signed. <br><br><br> Activity in progress <br><br><br><br> An Expert Committee has finalized the list of equipment for setting up of labs at RCs and PIs. The generic specifications |

| S.No | Scheme Name | Objective/Outcome | Outlay | Quantifiable Deliverables | Processes/ Timelines | Remarks/ Risk | Status as on 31.03.2006 |
|------|-------------|-------------------|--------|--------------------------|---------------------|---------------|------------------------|
| | | | | | | | have been finalized. The delivery of equipment to the institutes is in progress. |
| | | | | • Organise / offer courses in IS, Training of faculty, Development of learning material, Awareness Campaign, Training Govt. Officers | On-going activity | | • On-going activity.<br><br>• A one-day workshop for the finalization of curriculum for Faculty Training Programme for the PIs was conducted at TIFR, Mumbai.<br><br>• One Faculty Training Programme for 35 PIs has been conducted by TIFR, Mumbai. |
| | | | | • Training of Master Trainers | Tie-up with institutions December 2005 | | • MOUs have been signed with CDAC, ERNET and DOEACC. Also NIC, STQC and CERT-In have been identified as implementing agencies.<br><br>• 1$^{st}$ batch of 20 participants have been trained at ISTM, New Delhi, IISc., Bangalore & CMU, USA. |

| S.No | Scheme Name | Objective/Outcome | Outlay | Quantifiable Deliverables | Processes/ Timelines | Remarks/ Risk | Status as on 31.03.2006 |
|---|---|---|---|---|---|---|---|
| 19 | Special Manpower for VLSI Design | To increase availability of trained manpower in VLSI design to attract investment | 13.00 | • SMDP-I in 7 Resource Centres (RCs) & 12 participating institutes (PIs) . Output of 1000 students likely in 2004-05<br><br>• SMDP-II PIs to be increased to 25. Likely output 2500 by 5$^{th}$ year.  Project approved in March 2005 | March 2005 Project completed<br><br><br>MOUs with institutes 5 Years | | Project Completed<br><br><br><br>All 32 Institutions have accepted the revised Terms & Conditions of the Grant and Ist Installment of the grant was release to all Institutes in Dec. 2005/Jan 2006. |
| | | | | • Hardware & EDA Tool procurement and installation at 19 institutions | Tendering, procurement,  installation commissioning March 2006 | | The technical evaluation of Hardware and Electronic Design Automation (EDA) Tools completed in March 2006. The Purchase Order could not be placed as one of the bidders had represented to CVC about tendering. |
| | | | | • Instruction Enhancement Programme (IEP)<br><br><br>• ZOPP Workshop | Conduct training courses for faculty of PIs December 2005<br><br>To allocate tasks to PIs & RCs December 2005 | | The first IEP could only be organised in July 2006.<br><br>Organised during 3-5 February 2006 at IIT-Madras. |

| S.No | Scheme Name | Objective/Outcome | Outlay | Quantifiable Deliverables | Processes/ Timelines | Remarks/ Risk | Status as on 31.03.2006 |
|---|---|---|---|---|---|---|---|
| | **IV. OTHERS** | | | | | | |
| 20 | Headquarter (Secretariat & Bldg.) | | 9.70 | To meet running expenditure of the Secretariat under plan schemes | - | | |
| 21 | **NIC** | To provide<br><br>• Network Infrastructure Facility Provider(NIFP).<br><br>• Network Service Provider(NSP).<br><br>• Application Service Provider.<br><br>• Content ASP<br><br>to the Central Government, State Governments, District Administrations and other Government bodies. | 260.00 | Network Infrastructure for providing Internet and data services network to the Government Departments, State Governments, District Administrations and other Government bodies [Rs.84.90 crore] | • Tendering, ordering and operationalisation. October 2005. | | • Internet gateway installed for DR Centre at Hyderabad.<br><br>• NIC Hqr. to state capitals leased circuit bandwidth has been doubled.<br><br>• Leased line bandwidth between NIC Hqr. and Bhavans at Delhi doubled.<br><br>• DR Centre estabilished<br><br>• For MPLS backbone, design and procurement of required equipment procured and implementation of MPLS is completed.<br><br>• Internet Bandwidth increased to 226 Mbps and redundancy provided through PGCIL/BSNL circuits. |

| S.No | Scheme Name | Objective/Outcome | Outlay | Quantifiable Deliverables | Processes/ Timelines | Remarks/ Risk | Status as on 31.03.2006 |
|---|---|---|---|---|---|---|---|
| | | | | • Cyber Security at network, server and application levels for NICNET.[Rs.7.00 crore] | • Tendering for hardware, software and outsourcing of security audit - March 2006. | | • A Cyber Security Lab has been set up for critical infrastructure protection.<br><br>• Network security implementation carried out in 5 states. Total of 25 states have been covered.<br><br>• Security Audit of web applications is ongoing as a continuous activity. Application audit status monitoring system has been deployed for management of the application audit task.<br><br>Deployment of E-Tour, PKI-enabled workflow for official tours has been completed.<br><br>DR centre established and operational |
| | | | | • Disaster Centre for Network Infrastructure for providing backup data services in case of network failure.[Rs.5.20 crore] | • Tendering, procurement and operationalisation of the Centre. December 2005. | | |
| | | | | • Video Conferencing Network enhancement.[Rs.6.90 crore] | • Procurement of MCU for Madhya Pradesh. December 2005 | | • Data Collaboration among VC end points server completed. |

| S.No | Scheme Name | Objective/Outcome | Outlay | Quantifiable Deliverables | Processes/ Timelines | Remarks/ Risk | Status as on 31.03.2006 |
|------|-------------|-------------------|--------|---------------------------|---------------------|---------------|-------------------------|
| | | | | • Data Centre Infrastructure (including storage).[Rs.13.25 crore] <br><br><br><br><br><br><br><br><br><br><br><br> • Capacity Building for e-Governance Applications Development and Implementation. [Rs.142.75 crore] | • Procurement and commissioning. December 2005 <br><br><br><br><br><br><br><br><br><br><br><br> • Tendering, ordering and commissioning of hardware and software tools. March 2006. | | • 50 nos. videophones has been deployed at various states units/Hqrs. <br><br>• Provision of Plasma monitor at State capitals and Union Territories completed <br><br>• Extension of ASP Services to various Govt. Ministries and Departments for electronic delivery of citizen services completed. <br><br>• National Portal of India development completed and launched on 10th November, 2005 by the Hon'ble Minister of Communications and Information Technology. <br><br>• Security Framework for Land Records Information System has been approved by Dept. of LR. All the states have been requested to implement the recommendations. |

| S.No | Scheme Name | Objective/Outcome | Outlay | Quantifiable Deliverables | Processes/ Timelines | Remarks/ Risk | Status as on 31.03.2006 |
|------|-------------|-------------------|--------|---------------------------|---------------------|---------------|-------------------------|
|      |             |                   |        |                           |                     |               | • STQC has commenced testing of LRC software for ISO 9126 certification for six states of Himachal Pradesh, Uttar Pradesh, Sikkim, Assam, Chattisgarh and Kerala.<br><br>• Uniform Coding scheme for LRC software prepared by NIC has been accepted by Govt of India for implementation.<br><br>• Integration of virtual reality solution with Collab CAD completed in December, 2005. Integration of PLM, PDM solution with CollabCAD completed . |

**Department of Information Technology**

**Outcome Budget 2006-07   - Status of implementation / progress during the first Nine months**

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| 1 | Micro-electronics and Nano-technology Development Programme | To establish two centres of excellence for research in Nanoelectronics and Nanometrology and also to fund small and medium level research projects in specific areas such as nanomaterials, nanodevices, Carbon Nano Tube(CNT), nanosystems, MEMS,  VLSI design etc. | - | 40.00 | - | • **Nanoelectronics Centres at IITB & IISc.**<br><br>**IITB**:<br><br> Facilities for research in sub 100 nm CMOS Process Development; Nanosystems for Health-care and Environmental Monitoring; Organic & Biopolymer Devices; GaN Devices; Characterization, Modeling and Simulation of Nanoelectronics Devices.<br><br>**IISc**:<br><br> Facilities for research in magnetic materials for LC Resonator; Acoustic sensor; Ferroelectrics for FRAMs and Phase shifters; Rare earth metal oxide for MOS gate dielectric; Molecular Rectifier Based on Organic Thin Films. | It would create a strong base for research and development in Nanotechnology in the country. | Setting up of clean room & ordering of (part/full) equipment March 2007.<br><br>The quantifiable deliverables will start coming out from the end of third year onwards from the date of initiation. | **IITB**<br><br>i) 26 equipments have been ordered<br><br>ii) 4 Ph.D & 5 M.Tech students admitted<br><br>iii)3000 Sq. ft clean room is nearing completion<br><br><br>**IISc.**<br><br>i) 2 equipments ordered<br><br>ii) 4 Ph.D students admitted<br><br>iii) Building construction started |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | | | | | • **Nanometrology at NPL**, New Delhi<br><br>- Provide facility for calibration & traceability for linewidth, step height & surface texture measurement and calibration of low voltage (nV), low current (pA) & electric charge.<br><br>– International compatibility by participation in international intercomparision & round robin tests. | | | **NPL**<br><br>5 equipments & 1 software ordered |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| 2. | Technology Development Council | **IT for Industrial Applications**<br><br>• To strengthen local base for R&D/application in Electronics and IT in the field of Industrial Electronics, Agriculture and Water Resources | - | 21.00 | - | **National Mission on Power Electronics Technology (NaMPET)**<br><br>• Completion of infrastructure upgradation activities at Nodal Centre and participating academic institutes | Availability of system testing facility/ capabilities at Nodal Centre for high power systems, upgradation of power electronics laboratory, infra-structure/course material at the academic institutes for graduate/post graduate students leading to better manpower development in the area (Intermediate outcome) | 5 year programme from Nov'04<br><br>December 2006 | Infrastructure develop-ment at the Power Electronics Lab of C-DAC, Trivandrum is complete and functional. Some of the upgradation activities at academic institutes are slightly delayed and are expected to be completed by March 2007. |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | | | | | • Second industry-academic meet for awareness creation in power electronics | Greater industry-academic - R&D experts interaction leading to feasible development of projects, TOT etc. (Intermediate outcome) | October 2006 | Industry-academic meet was held at IIT-Kanpur from 30 October to 1 November 2006. |
| | | | | | | • Completion of new technologies like IGBT Gate Driver and making substantial progress in Full Spectrum Simulator, Matrix Converter Topology and Ultra Capacitors | Commercialisation of completed projects (Intermediate outcome) | March 2007 | Test marketing of IGBT gate Driver started. Other new projects are progressing satisfactorily. |
| | | | | | | **Other R&D Projects** <br> • Area Traffic Control System implementation at Pune city | Possible TOTs, improvement in traffic management in Pune | September 2006 | Completed and ToT mechanism finalised   A replication project through TOT to Webel Mediatronics Ltd., Kolkata has started in Jaipur, totally funded by the Rajasthan Govt. |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | | | | | • Completion of field testing of the first prototype and building the second prototype in the Hybrid Electric Vehicle project | Capability to design critical transport technology and its application as a pollution free system | March 2007 | EMI/EMC and environmental tests on first prototype have been completed. There is a slight delay in building of the second prototype and likely to be completed by March 2007 alongwith road trials. |
| | | | | | | • Completion of 6 and substantial progress in other 11 on-going IT/ Electronics application development projects | Possible TOTs, demonstration of field benefits, upgradation of design base | March 2007 | Technology has been transferred to Orion Electronics, Mumbai on the project on Electronics Maintenance Aid for Spindles in Textile Spinning Mills. |
| | | | | | | • Initiation of some new IT application projects in the field of agriculture/water resources | Techno-economic benefits to Indian industry | March 2007 | The Working Group in its meeting held on 13.12.2006 have recommended some new projects for approval. Approval process has been initiated. |
| | | | | | | **IPR** <br> • Ten Technology Trends Alert Reports based on Patents will be prepared | Availability of technology development inputs reg. Patents and creation of IPR's in the country | March 2007 | 6 Technology Trend Reports prepared. |
| | | | | | | • To be filed: <br> - 30 Copyrights. <br> - 15 Patents. <br> - 05 Design & Trademarks | | March 2007 | Filed <br> - 20 copyright, 15 obtained <br> - 12 Patents, 3 obtained <br> - 4 Trademark,2 obtained |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| 3 | Convergence, Communication & Strategic Electronics | To undertake R&D in Convergence, Communication & Broadband Technologies | - | 6.00 | - | Initiation of 6-8 projects in development/application of technologies defining the Next Generation wired/wireless broadband technologies Converged Access Devices, embedded software applications, self-healing and reconfigurable networks. ICTE applications for safety, security & surveillance<br><br>To arrive at specifications for users, suiting to Indian conditions, demonstration - and testing of new products and new technologies developed as per specified features. Execution of Transfer of Technology (TOT) . | The R&D activities will result in establishing capability for development and application in emerging technology bringing economic benefits and e-inclusion, safety, security and improved life.<br><br>The R&D activity will result in creation of knowledge capital and provide users hands on experience and exposure to latest technologies, which will be an asset for the country. | Formulation of new projects, Constitution of expert groups and PRSGs for evaluation and monitoring. On an average 2 projects in each quarter are proposed to be initiated. The projects are generally of 1-2 years duration. | Following 10 projects have been initiated :<br>• Development of Autonomous Buoys system for Radio Acoustic Positioning and Tracking<br>• Establishment of Compact Antenna Test Range Facility<br>• Establishment of Millimeterwave Facility at SAMEER<br>• Development of a video calling and messaging for Java enabled GPRS mobile phones at CDC Delhi.<br>• Development of TETRA Comm. System for Disaster Management<br>• Development of Tracking and Monitoring system in underground mines<br>• Establishment of Electronics Design Center for system on package in collaboration with Georgia Institute of Technology (PRC) Atlanta, USA<br>• Development of Autonomous Mobile Vehicle with Manupulator for Handling of Hazardous Objects<br>• Flexible, experimental Test Bed for Evaluation of Adhoc Wireless Networks<br>• Design of Next Generation Wireless Comm. Systems and Networks |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| 4. | Components & Material Dev. Prog | Development of product and process technologies for the production of high purity electronic grade materials and components through sponsored R&D projects | 0.60 | 9.00 | 2.80 | Know-how / Technologies from two projects namely microwire and copper recovery and etchant regeneration would be available. | Knowledge base generation, Trained manpower, and Capacity building | Know-how/ Technology documents – two nos. by Dec. 2006. Initiation of 2 New projects by Jan. 2007. | Technology Document received. One new project initiated & funded and 3 new projects have been approved by WG. |
| | | | | | | Processing of LTCC interconnect layers | Availability of technology for solder paste, LTCC process | March 2007 | The LTCC fabrication process fully developed. A prototype pressure sensor package designed and fabricated. A multilayer test package delivered to the sponsoring agency. The solder paste preparation process up graded to 5kg scale. Technology transfer is in progress. |
| | | | | | | GG-495 schottky type glasses will be developed. | Coloured glasses for remote sensing camera | March 2007 | The process for optical cut off filter of type OG-515 has been optimized using 60% $SiO_2$. |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | | | | | Development of Polymer - Process for 50 gm batch size polymer | Polymer system for NLO Applications. | March 2007 | Optical grade Poly(methylmethacrylate) synthesized by free radical polymerization at 50 gm batch size |
| | | | | | | QDS- polymer composite that emit visible light. | Quantum dots/polymer composite with blue, green and orange light emission | March 2007 | Light emission optimized. QDS for Blue, Green & Orange light emission completed. The PL studies are also completed. EL studies are in progress |
| | | | | | | Humidity Sensing device with interdigitated pattern. | Laboratory scale production of such sensors. | March 2007 | Inter-digital patterns were fabricated. The Sensing response was measured for a broad range of humidity. |
| | | | | | | To produce high pure cadmium - up to 6N pure | Availability of technology for 6N and above purity cadmium | March 2007 | The experiments using zone heaters have been conducted. Zone stabilization trials are being carried out to form stable zone. |
| | | | | | | To produce Low voltage capacitor grade tantalum powder. | | March 2007 | Final Technology Transfer document is ready to transfer the technology during EITEX-2007. |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | | | | | To produce high purity $Ta_2O_5$ and supply to end-users. | Availability of technology High purity $Ta_2O_5$ | March 2007 | Project successfully completed & Project completion report is being prepared. |
| | | | | | | Process technology for LTCC substrates for packaging. | LTCC green tapes of 4″ x 4″ and thickness 125- 175 µm. | March 2007 | Prepared defect free tapes. Co-fired the tapes with pure Ag paste and studied its compatibility with the LTCC material. Prepared tapes of 6″ x 6″ size. |
| | | | | | | Process technology for flexible high K and low K microwave substrates | 25 Nos. of 2″x 2″ size cu-cladded microwave substrates | March 2007 | 35 micron copper cladding has been done over surface modified low K substrates through electroless and electroplating techniques. |
| | | | | | | Process technology for PMN-PT multilayer ceramic actuators. | 250g batch of PMN-PT material and Multilayer electrostrictive actuators. | March 2007 | ML process optimized. Strain characteristics evaluated. |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| 5 | Electronics in Health | To promote development in medical electronic equipment and rehabilitation device. | - | 15.00 | - | • Installation and commissioning of two 6 MV medical linear accelerator for cancer treatment.<br><br>• Initiating activities to set up facilities for fabrication of linac tubes on a pilot scale.<br><br>• Initiating of new projects in the development of medical electronics devices and rehabilitation of physically handicapped. | Indigenous production of medical electronics and rehabilitation devices and making their availability at affordable price thereby larger, deployment. Similarly, IT products for education & rehabilitation of visually impaired students. | The first two indigenously developed 6 MV medical linacs will be commissioned and made operative by Dec'2006.<br><br>Construction activity for linac tube facility to commence by Oct. 2006<br><br>Field trial of electronic controlled wheel chairs will commence by Dec 2006. | • The first 6MV Linac machine has been installed in Mahatma Gandhi Institute of Medical Sciences, Wardha and treatment of cancer patient started.<br><br>• Second machine has been fabricated and extensively tested.<br><br>• Consultant has been appointed. Architect has been appointed and pre-tendering activity completed<br><br>• Wheel chairs have been fabricated for initiation of field trials.<br><br>• Nine new projects have been initiated |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| 6 | Technology Dev for Indian Languages | Proliferation of Indian Language and Software tools to achieve the maximum benefits of ICT. | - | 9.00 | - | **Launch of Indian language Software/ Tools**<br><br>Free-to-use software tools such as Fonts , text-editor, spell-checker , Morph Analyzer , Dictionaries, Key-board drivers and messaging systems will be launched for remaining 7 Indian languages.<br><br><br>**Specialized Manpower Development in Language Technology**<br><br>Generation of ~ 100 trained manpower (Masters level ~ 50 & PG Diploma Level ~ 50) in the domains of Knowledge Engg./ Computational Linguistics and Software Localization | Proliferation of Indian Language and Software tools to achieve the maximum benefits of ICT.<br><br><br><br>Availability of trained manpower for innovative product development and research in Language computing. | Launch of Software tools for Marathi, Punjabi, Urdu, Bengali, Oriya, Assamese languages - April-Sept. 2006<br><br>Other Indian Language - October 2006 – March 2007<br><br><br>Launch of Masters & PG Diploma programme in 8 Institutions – April-Sept'06 | CDROM's containing Software tools & fonts of following languages are released for Tamil - 15th April 2005, Hindi - 20th June 2005 and Telugu - 29th October 2005. CDROM's of Punjabi, Urdu, Oriya, Marathi, Malayalam, Kannada and Assamese are ready for release & consolidation-development work in progress for remaining languages.<br><br><br><br>Masters Programme in Computational Linguistics /knowledge engineering has been initiated as 3 institutions namely IIIT Hyderabad, Anna University, Chennai and Utkal University, Bhubaneshwar. PG Diploma programme in Localization is being initiated at 3 institutions namely C-DAC Thiruvananthapuram, C-DAC, Kolkata and BIT Mesra, Ranchi. |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | | | | | **Development of Open-Type fonts in Indian Languages**<br><br>Development of 286 Open-type fonts in 11 Indian Languages | Proliferation of Indian Language Open Type fonts and use of Indian Languages on web. | 1st batch of trained manpower in domain of Knowledge Engg/ Computational Linguistics, and Localization Technology – October'06-March 2007<br><br>Completion of development of all 286 Open-Type fonts in 11 Indian Languages,<br><br>one 'Sakal-Bharti' multilingual font - Sept'2006 | Under this initiative as of now a total of 242 Open Type fonts are developed & rest of the font's development is in progress. |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | | | | | **Web Internationalization Initiative for Indian Languages (WII)** Finalization of various issues pertaining to Indian Languages in World Wide Web Standards (W3C standards) | Inclusion of Indian Language Aspects in W3C standards would augment web technology applications in Indian Languages. | Indian Language representation in major W3C standard and Semantic Web – Sept.2006 Indian Language representation in other W3C standards such as XML, Voice-Browsing and Mobile Web - March 2007 | The various W3C recommendations/standards are under study/analysis with Indian Languages perspective. Various issues such as Text Formatting for Indian languages, Indian Language Tag set etc for Indian Languages representation is web standards have been identified and being finalized in discussion with all the stakeholders. Discussion with W3C initiated for providing inputs with respect to Indian Languages. |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | | | | | **Centres for Indian Language Technology & Resources (CILTR)**<br><br>(a) Standardization of Unicode issues in collaboration with State Governments.<br>(b) Development of niche technology in collab. with state governments.<br>(c) Training & consultancy to state governments. | Proliferation of Indian Language softwares and solutions through State Governments' active participation | SFC approval - Sept.,06<br><br>Launch of CILTR projects in collabora-tion with the State Govern-ments - Mar.,07 | Projects for development of 'Machine Translation System', 'Cross Lingual Information Access System' and 'Optical Character Recognition System' have been initiated in Consortium mode. These projects are entitled as:<br>▪ Development of Robust Document Analysis and Recognition System for Printed Indian Scripts<br>▪ Development of Online Handwriting Recognition System for Indian Languages System<br>▪ Development of Cross Lingual Information Access System<br>▪ Development of Indian Language to Indian Language System<br>▪ Development of English Language to Indian Language System |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| 7. | E-Commerce & Info-Security | To promote R&D in information security through supporting projects at recognized R&D organizations to develop national capability and skill | - | 4.00 | - | Development / enhancement of skill and expertise in areas:<br><br>• Cryptography and Crypt analysis<br>• Network and Systems Security<br>• Security Architectures<br>• Vulnerability Assessment<br>• Assurance Technologies<br>• Monitoring, Surveillance and Forensics<br>- Intrusion Detection<br>- Content and Traffic Analysis<br>- Computer forensics | It will result in development of indigenous cyber security products and skill ed man power | April–June 2006<br>Review of 5 on-going projects Completion of 1 project<br>- July–Sept' 2006<br><br>Review of 10 on-going projects Completion of 1 project<br>- Oct-Dec'06 Review of 15 on-going projects Completion of 3 projects Formulation of 5 new projects.<br>- Jan-Mar'07<br><br>Review of 20 on-going projects Completion of 9 projects Formulation of 2 new projects. | Seven projects covering elliptic curve cryptography network monitoring (data/VoIP), data mining techniques for cyber security and system for collection of electro-magnetic signatures from digital equipment, end system security solution for UDP applications and enterprise wide intrusion detection system were completed. Six new projects covering secret sharing schemes using DNA cryptography, security and private issues in RFIDs, self-healing architecture for attack mitigation, testing and evaluation of cryptography products, malware prevention system for end system survivability, data hiding technologies surviving print-scan process for document security were considered by the Working Group. |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| 8. | IT for Masses (Telemedicine, Gender, SC/ST) | Use of Electronics and ICT to provide specialist consultation for diagnosis and treatment in rural/remote locations  Upliftment of Women folk and SC/ST | - | 18.00 | - | • Establishing advanced hospital management system for efficient hospital administration and improved patient healthcare at Regional Institute of Medical Sciences, Imphal. | Patient facilitation and time saving which results in higher patient turnover in the hospital, number of patient records generated. | Installation of hardware, software, networking and testing - Sept 2006 | e-Shushrut(Advanced Hospital Management System) has been developed. The system has been integrated with Barcode to issue OPD registration cards. Chhavi(PACS) has been developed. Data Center and Networking Infrastructure have been established. OPD registration and web site have been commissioned. Doctors and paramedical staff have been trained. |
| | | | | | | • Telemedicine networks connecting specialist hospitals with rural hospitals in  - West Bengal | It will increase number of consultations from remote locations by the patients . | Installation of hardware, software, connectivity and patient consultation Dec 2006 - | At three existing referral centres and one nodal centre at Govt Hospital equipment have been upgraded to both IP & ISDN communication links.  Two new referral centres and three nodal centres have been commissioned and training provided to doctors, paramedics and operators  Telemedik software has been upgraded and installed from version 3.1 to version 5. Patient consultations are being provided from these centres.  Project has been extended to September 2007. |

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| | | | | | | - Himachal Pradesh | | April 2007 | Customisation of the Telemedicine software Application completed. Telemedicine centres at Rampur and Rohru have been set up. Trials between Rampur and IGMC Shimla successful. |
| | | | | | | Development and deployment of electronic gadgets for Telemedicine applications in the emerging areas of technology | Telemedicine using advanced electronic gadgets in emerging areas of technology | Initiation of two new projects - March 2007 | Following two projects have been initiated 1.Setting up of Telemedicine facilities in Tamil Nadu – implemented by C-DAC Pune and DCL Software Ltd, Chennai 2. Customised development and implementation of Telemedicine Application for rural areas of Punjab - being implemented by C-DAC Mohali |
| | | | | | | • To conceive and formulate few projects for development of Women, SC/ST sector. | | At least 2 projects – **March 2007** | The Department conducted a workshop on the subject in Sept 2006 in association with Ministry of Women & Child Development to brief what types of schemes the Department can initiate in this domain. Two projects have been conceived and are in the process of approval. |

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| 9. | Media Lab. Asia | To leverage information and communication technologies and other advanced technologies for the benefit of the common man. Research and innovations in technology and applications in healthcare, education and empowerment of disabled. | - | 10.00 | 10.00 | Development of technologies, applications and deployment of models in the thrust areas of Media Lab Asia. | The long term outcomes of technology interventions would result in:<br><br>• Providing urban services to rural areas through the use of communication technologies.<br><br>• Empowerment of the disabled.<br><br>• Availability of quality education in rural areas. | Continuing and long term process. The test deployment of techno-logies, applications and products will be undertaken as under:<br><br>Test deploy-ment is under way.<br><br>Test deploy-ment will start during the year – March 2007. | • Industry and NGOs have shown interest for the deployment of e-Sagu. Development of business model was recommended.<br><br>• The fruit growers associations the Horticulture University in Simla have shown interest in deployment of eSagu for Horticulture in Himachal Pradesh.<br><br>• eSagu has been conferred with CSI Nihilent Best e-Governance Award for the year 2005-06.<br><br>• The Working Group for Empowerment of disabled cleared some proposals including 'Supply, installation & commissioning of |

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| | | | | | | | | Test deploy-ment during the year – March 2007. | computerised Braille Transcription System at the Blind schools throughout the Country' and 'Utilisation of Edusat Connectivity for its various educational programs on different types of disabilities'. <br><br> • The following projects were approved during Oct-Dec 2006. <br><br> - 'Setting up of ICT based Distance training facility using EDUSAT for special educators and other rehabilitation professionals' - C-DAC, Thiruvananthapuram. <br><br> - 'The Smart Cane' for detection waist – above obstacles which can be attached to the white cane used by the Visually Challenged and user triggered 'Bus Identification System' - IIT Delhi. |

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| | | | Non-Plan | Plan Budget | Comp IEBR | | | | - 'Braille printing of Rabindra Rachanaboli'<br><br>- Webel Mediatronics Ltd.<br>- Supply, installation, training and commissioning of Computer Based Braille Transcription System in 40 selected schools - Webel Mediatronics.<br>- Development of Screen Access for upgrading the present design to be daisy & web compliant - NAB (National Association of Blind).<br>- 'A comprehensive Satellite/Internet based National Network for Education, Training & Empowerment of the disabled' - RCI for 250 recognized centres of RCI and creation of to portal for disabled at MLAsia premises.<br>- Development Sanyog, Shruti and speech recognition system by IIT Kharagpur. |

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| 10. | STQC | Establishment of Quality Assurance Infrastructure in the country to facilitate quality products & services at par with global standards and practices | 4.30 | 46.00 | - | 1. Upgradation of Test & Calibration facilities to cater to state-of-the-art products with emerging technologies. | State-of-art Test & Calibration facilities will be available to Industry to upgrade quality of the products. | On continual basis | In progress |
| | | | | | | 2. Earn Rs. 40 Crore as revenue | STQC will move towards self-sustenance | March 2007 | Rs.27.34 crore earned up to December 2006 |
| | | | | | | 3. Establishing the working relationship with NIST, USA in development & review of IT Security Standards and guidelines | Indian Software industry will start utilizing facility of NIST IT Security Standards available with STQC | March 2007 | The STQC Guest Research Progress at NIST USA is proposed in April, 2007 |
| | | | | | | 4.Upgrade Information Security Management System (ISMS) Certification to ISO/IEC 27001 standard from the present BS 7799-2 standard. | Indian Software industry will start utilizing the services of STQC for certification to ISO 27001 | Dec 2006 | Completed |

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| | | | | | | 5. To upgrade services for testing of software application for e-Governance application | Software industry will start utilizing upgraded test methodologies for assessment of quality of their products. | March 2007 | Completed |
| | | | | | | 6. To provide services of software evaluation to various industry sector and the user industry. | More industries will utilise the Software test facilities to improve quality of their products. | March 2007 | Completed |
| | | | | | | 7. Certified IT Service Management training programs and BS 15000 Certification Services to be started. | Enhanced confidence of IT Services industry due to availability of trained manpower. | March 2007 | • Certification Scheme has been accredited (ISO 20000) by itSMF-UK<br>• Training Programmes are recognized & training services are being provided. |
| | | | | | | 8. Initiate construction activity of STQC Building at Noida. | Construction activity will be in progress | Dec 2008 | Construction activity is in progress first phase expected to be over by early 2008 |
| | | | | | | 9. Human Resource Development by conducting DOEACC 'O' & 'A' level courses in NE region. | Computer education to weaker/backward sections. | On continual basis. | In progress |

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| 11. | Digital DNA Park | To promote Bio-IT activities in the country | - | 0.10 | - | **Setting up of Bio-IT Park** Computational Biology Centre | -R&D in Bio-IT area<br><br>- Creation of manpower & knowledge sharing in bio-IT | Park Infra-structure Development in 2006-07 | The project has been approved. |

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| 12. | E-Governance | E-Governance is the use of Information Technology and Communication Technologies to improve efficiency, convenience, accessibility and transparency in Government, particularly in delivery of services to citizens and businesses.<br><br>Various IT activites such as creation of e-Governance infrastructure, implementation of Mission Mode projects, Assessment & Replication of Successful e-Governance Projects, development of software applications/solutions, GIS/GPS, Standardisation, establishment of | - | 440.00 | - | **Establishment of SWAN**<br><br>Provide 2 MBPS Data connectivity upto Block level in all States/ UTs in phases.<br><br>SWAN will be operational in 7 States by March 2007. | State Governments, would leverage the **SWAN** as the core network infrastructure, to provide G2G services and later G2C services (even below Block Hqrs level when last mile connectivity would be made available) whose availability is presently confined to the location of the offices providing these services any where anytime over the entire State. | Each State/UT is implementing **SWAN** project within the **SWAN** Guidelines which allow optional implementation through a **PPP** model or through **NIC. CCEA** approved SWAN Scheme. Empowered Committee (EC) approves the State/UT **SWAN** proposal case by case. It is expected that within 18 months of EC approval, the **SWAN** project would be implemented. - Dec 2007 | Proposals from 24 States/UTs sanctioned. Proposals from 5 more States/ UTs are likely to be submitted to DIT. Implementation status for each State/UT is available in the periodically updated Program Tracker hosted in the home page of the official website of DIT i.e. www.mit.gov.in |

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| | | State Wide Area Network (SWAN) and Content development etc. in E-Governance domain are being taken up. | | | | **Common Services Centres (CSCs)** Setting up of ICT based Kiosks (100,000) at Village level across the country in phases. 30,000 Kiosks would be set-up by March 2007. | Extend benefits of ICT to Rural Masses & provide outlets for delivery of Govt. services. | December 2007 | Guidelines along with generic RFPs for SCA selection circulated to all States/UTs. CCEA approved the CSC Scheme. Empowered Committee constituted. The Schemes of 11 States has been approved |
| | | | | | | **State Data Centre** Create Secured Data Repository at State/ National level - in phases Data Repository will be operational in 10 States by March 2007. | Secure and reliable Data Repository sharable across various applications | Time targets will depend on proposals received and States' prepared-ness. - Dec'2007 | Policy Guidelines on providing Technical & Financial Assistance to the States have been formulated. |
| | | | | | | **Capacity Building** 1. Institutional Capacity Building in 28 States and 7 UTs 2. Preparation of e-Gov. Road Map and Capacity Building road Map | Will increase States' capacity in preparing the detailed project report for tapping the NeGP | EFC will be conducted by March,07 | EFC expected to consider in Feb./March 2007. Submitted for comments of Planning Commission and Deptt. of Expenditure on EFC. |

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| | | | | | | **India Portal**<br><br>Establish Single window portal for delivery of all Govt. services. | Single point access to all information & services from various Govt. Depts. | December 2007 | Tools like Advanced Search and Feedback introduced to accentuate frequency of usage of online services of Govts.<br>New Sections are being added on the Portal<br><br>Web Casts of 60th Independence Day Celebrations and the Address to the Nation by the President of India through the portal.<br><br>Enhanced & updated the Photo Gallery & Greeting section.<br><br>45 new on-line services offered by State Governments added.<br><br>Contact Directory for seven States have been added.<br><br>UNDP India has provided a link from its website to the National Portal. |
| | | | | | | **National e-Governance Service Delivery Gateway (NSDG)**<br>Establish Gateway Standards and implement a Central Govt. Gateway based on these standards | Building block to facilitate interoperability, data sharing and joined up services | December 2006 | SFC approval of the Project in August 2006<br>RFP Review Committee meeting held in Aug'06.<br><br>CDAC identified as the implementing agency along with a consortium of partners |

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| | | | | | | **Programme Management Unit (PMU)** Provide Secretarial support for the NeGP & Technical cum Managerial support to line Ministries/ Depts. | Availability of consolidated status on the NeGP implementation and better management of resources. Providing of Technical cum Managerial support to Line Ministries/ Deptts. | July 2006  July 2006 onwards | PMU set up.  Monitoring of NeGP being done.  Assistance to the Ministries being provided |
| | | | | | | **Human Resource Development** Training of CIOs & Policy Makers in phases. | Availability of trained manpower to manage/execute various projects under the NeGP | Continuing activity | No Change |

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| | | | | | | **R&D in e-Governance**<br><br>Built expertise in the area of Security, Local Languages, etc | - Self-reliance<br>- Bridging Digital Gap<br>- Development of cost effective solutions. | Continuing activity | Indian Language Computing Initiative –CDROM's of Punjabi, Urdu, Marathi, and Malayalam are ready for release & consolidation & development work in progress for balance languages.<br><br>Four Projects have been initiated in the Language Technology<br><br>▪ Indian Language to Indian Language Machine Translation System<br>▪ English to Indian Language Machine Translation Systems<br>▪ Optical Character Recognition systems for Printed Text<br>▪ Cross Lingual Information Retrieval System |
| | | | | | | **UNDP**<br><br>(Project - ICT for evelopment) Promote ICT based applications through pilots in the area of Integrated Citizen Services, Enhancing Livelihood, Transforming Rural Governance & Women Empowerment. | Development of ICT based prototypes for economic/ social development. | December 2007 | The Results Based Management Framework has been put in place in all the pilot initiatives and it is expected that the monthly quantitative reports shall be generated from January 2007. The project has established: |

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| | | | | | | | | | Three pilot initiatives for improving rural livelihoods - e-Krishi, EDSS, Ashwini |
| | | | | | | | | | Three pilot initiatives for providing citizen services - Bangalore One, VIS, i-CoSC |
| | | | | | | | | | One pilot initiative for women's empowerment- Mahiti Manthana |
| | | | | | | | | | Four pilot initiatives for e-Governance – DRISTI, Mahiti Mitra, e-Procurement, e-justice |
| | | | | | | **Horizontal Transfer of Successful e-Governance initiatives**<br><br>(Land Records, Registration & Transport) - 30 projects in Land Record, Property Regn. and Transport in 16 States has been started of which over 20 projects would be completed. Continue rolling out of successful projects on pilot scale in other locations. | Development of models implementation for statewide replication. This will provide transparent and faster service to the citizens. | December 2007 | 25 projects have been completed. Roll out in 2 States completed and initiated in 2 more States. |

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| | | | | | | **Technical Assistance** Provide specialized manpower to the line Ministries/ Depts. for evolving project proposals under the NeGP. | It would help in bridging technological/ manageral gaps existing in various Ministries/ Depts. to execute the NeGP projects. | Continuing activity | No Change |
| | | | | | | **Unique ID for BPL Families** Creation of a database at the National Level & sub data bases at State Level Online access to authorized users will be provided by March 2007 both at National and State level. | It would curtail requirements for physical verification & help better targeting of Government schemes. | December 2007 | • Project Sanctioned, Bids being finalized for selection of Consultants. • Hardware & Software installation going on |
| | | | | | | **Others** Assessment of e-Readiness of States/ UTs Assessment of EG projects Formulation & Enforcement of Core Policies & Standards | Help in evolving policy framework for sustainable growth of e-Governance in the country. | December 2007 | Under Progress |

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| 13. | IT Act / Certification & Network Security | .Legal recognition of electronic data interchange transactions<br><br>Enhancing capabilities in prevention of Cyber crime and use of Digital Forensics<br><br>Enhance the Security of Indian Cyber space<br><br>Providing advance information to users on cyber security matters to help them protect their IT systems and network<br><br>Increasing Cyber Security education and awareness | - | 7.00 | - | Promotion of Digital Signature certificates through workshops/seminars.<br><br><br><br>Updation Legal framework structure for formulation, analyzing and enforcement of IT Act 2000 and prevention of cyber crimes in the country | Enhanced use of digital signature for e-governance, e-commerce, banking applications, etc.<br><br><br>A legal framework, which will instill confidence of the users and investors in the area of Information Technology in the country.<br><br>Enhanced web Security Effective control of e- | On-going<br><br><br><br><br><br><br><br>On-going | The number of Digital Signature Certificates issued are likely to be about 3,50,000 by the end of 2006.<br><br>CCA coordinating integration of Digital Signatures with major e-Governance applications and as well involved with other initiatives such as development of policies for Identity & Access Management for the National e-Governance Programme.<br><br>The next five day course on Digital Signatures, Cyber Crimes & Cyber Forensics is scheduled for Jan-Feb 2007.<br><br>Amendments in the existing IT Act,2000, new legislative provisions for making provisions for the new types of cyber crimes and strengthening of the existing legal frame-work. After the Cabinet approval,the Information Technology Act (Amendment) Bill 2000 was introduced on 15th Dec. 2006 in Parliament. The Bill has been referred to Parliamentary Select Committee. |

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| | | | | | | <ul><li>Tracking Indian Website Defacements</li><li>Tracking open proxy servers</li><li>Security Incident Response</li><li>Creation and maintenance of Vulnerabilities Data Base</li><li>Security Alert/Incident Notes- 20</li><li>Security Advisories- 30</li><li>Security Vulnerability Notes- 100</li><li>Security Guidelines- 05</li><li>White Papers- 10</li><li>Training for CIOs of critical sectors - Sector wise</li><li>Domain specific - 10 Trainings</li></ul> | commerce fraudulent activities Containing the effects of cyber security incidents and ensuring business continuity Latest virus definitions will help in implementing proactive measures<br><br>Enabling users to proactively implement cyber security measures to reduce the chances of incidents/ attacks Will create necessary awareness and facilitate information sharing to deal with crisis situations. | On-going<br><br><br><br><br><br><br>on-going<br><br><br><br><br><br>On-going<br><br><br><br>On-going | Tracked and got them shutdown around 1661 open proxy servers in India<br><br>Resolved 327 security incidents<br><br>Security Alert - 34<br>Security Advisories - 36<br>Security Vulnerability Notes- 100<br>Security Guidelines- 05<br>White Papers- 10 |

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| 14. | Community Information Centres (CIC) | To reduce the digital divide by providing internet access and IT enabled services to the community at large and to facilitate citizen interface with the Government. | - | 28.00 | - | • 487 CICs at Block level in the 8 North Eastern States providing services | • ICT Connectivity and citizen interface for IT enabled e-government services and training. | Feb 2007 | CICs are operational and providing services |
| | | | | | | • Handing over of above CICs to States | | Feb 2007 | Being pursued |
| | | | | | | • 68 Additional CICs in newly created blocks in North Eastern States providing services | • Faster & Reliable Communication, Timely Access to School Results & Election Results. | Dec 2006 | Under progress (CIC at Nathula Pass in Sikkim operational) |
| | | | | | | • Handing over of these CICs to States | | Feb 2007 | Under Progress |
| | | | | | | • 135 CICs at Block level in Jammu & Kashmir providing services | • ICT awareness creation and Employment Generation. | July 2006 | 127 CICs are operational., balance in progress. |

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| | | | | | | • 41 CICs in Schools of Andaman & Nicobar and 30 CICs in schools of Lakshadweep Islands providing services | • Better informed citizens with access to citizen-centric and web-based services including e-mail, internet access, agri-market information, hospital bookings, board examination results, Govt. schemes, pilgrimage, and public grievances etc. Time saving & Money saving. | July 2006 | 35 CICs in A&N and 29 CICs in Lakshadweep are operational, balance in progress. |

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| 15. | Promotion of Electronics / IT Hardware Manufacturing | Promotion of Hardware Manufacturing in the country at Global level. | - | 5.00 | - | • Supporting the Electronics/IT Hardware industry associations for organizing/ participation of the industry in National and International Exhibitions/ Events. <br><br> • Supporting the promotion of Mega-fabs/Assembly & Test Manufacturing (ATM) and High-tech industries in the country. | May induce investment in electronics/IT hardware manufacturing sector | March 2007 | For setting up a Megafab, a nominal provision of Rs. 5 crore was made in the budget to be used as SPV, if required. |
| 16. | Manpower Development | To develop tools & technologies to effectively integrate e-learning methodology & approach with conventional classroom system to maximise the benefits flowing from the traditional education system | - | 38.40 | - | • e-learning content in CD-ROM operable on window/Linux environment, Training on Appl. S/w: Maya Studio, 3D Studio. <br><br><br> • Standardised tools for | • A prototype tool (software package in CD form) will be available for use by students, teachers and corporates from film industry & commercial Artist. <br><br> • New standards | 2 on-going projects to be completed - March 2007 <br><br> Remaining | • 85% of Software and Hardware procurement & installation completed <br> • Resource mobilisation, storyboard preparation, Content development in progress <br><br> Completed content based |

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| | | | | | | e-learning courseware. <br><br> • Software for content based delivery & distri-bution of e-learning courseware. <br><br> • Training of 450 teachers on e-learning over 3 years. <br><br> • New Projects on Technologies & tools, standards & contents. | & Algorithms for e-learning adaptive applications for optimisation of bandwidth utilisation. <br><br> • A standard media mark for languages needs to be designed to apply principles of Web to multimedia, creating continuous Media Web. | 2 to be completed in the subsequent years. | compression algorithm <br><br> A network streaming protocol and Real time captioning system are under development. <br><br> Collected material regarding ISO/IEC initiatives, British Learning Association Quality Mark and Standard related to course content and certification procedures <br><br> 2 new projects have been approved. |
| | Human Resource Development in the country in Information Security. | | | | | • Introduction of Information Security Curriculum at B.Tech/ M.Tech / Ph.D levels and train system Administrators: Setting up of labs at RCs and PIs; Training faculty of Participating Institutes; Train Central & State | • Generate qualified IT | March 2010 | 5 RCs and 34 PIs have signed the MOU for implementing project. <br><br> Two Faculty Training Programmes for the PIs have been conducted by TIFR, Mumbai. <br><br> The syllabus and course structure for B. Tech., M. Tech., etc., |

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| | | | | | | Government Officials and awareness Programme in the area of Information Security | security professionals for Industry/ Govt.<br><br>• Human Resource Development and awareness in the area of Information Security.<br><br>• Secured environment for BPO, Commerce and governance. | | prepared and made available to all the Resource Centres and Participating Institutes which have taken action to launch courses in Information Security.<br><br>1st phase of equipments have been supplied to the PIs for setting up of a Lab on Information Security. Procurement of equipment for 2nd phase for the PIs and RCs is underway.<br><br>Three batches of 20 officers/ scientists/engineers each have undergone Master Trainers Programme at ISTM New Delhi; Indian Institute of Science, Bangalore and Carnegie Mellon University (CMU), USA.<br><br>Short-term trainings for officers of Government organisations are being orgainsed by the Master Trainers.<br><br>An Action Group for Awareness Programme has been constituted.<br><br>An Academic Committee to look into various issues of ISEA project has been constituted. |

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| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | **Human Resource Development in the country in the area of VLSI Design.** | | | | • Completion of setting up of Labs at the 19 institutions, <br><br> • Supply of equipments to the remaining 13 institutions and completion of setting up of these labs. <br><br> • One RC/PI annual workshop to be conducted; <br><br> • The Resource Centres to conduct two IEPs for training of faculty of Participating Institutes. <br><br><br><br> • Creation of VLSI Design Resource website and Mirror sites at RCs. | Increased availability of trained manpower in VLSI design to attract investment <br><br> R&D culture in VLSI domain is expected to be enhanced. | Sept. 2006 <br><br> Dec. 2006 <br><br> Dec. 2006 <br><br> June 2006/ Dec. 2006 <br><br><br><br><br><br> Dec. 2006 | Hardware installed at all 32 institutions. Electronic Design Automation (EDA) Tools to be operative by March 2007. <br><br> Instruction Enhancement Programme (IEP) conducted : <br><br> – *Digital IC Design* at IIT Kanpur on 3-14 July 2006. <br> – *Low Power IC Design* at IIT Kharagpur on 11-23 Sept 2006. <br> – *RF IC Design* at IIT Madras on 13-24 November 2006. <br> – *Semiconductor Design Modelling* at IISc., Bangalore on 4-15 December 2006. <br><br> More than 100 teachers have been trained so far. <br><br> ZOPP Workshop scheduled in Feb. 2007. <br><br> Dummy VLSI Design Resource Website prepared and expected to be operational by February/March 2007. |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | **Productivity and employment Generation** – To enhance productivity and generate employment in manufacturing & service sectors with deployment of ICT tools. | | | | • Setting up of demonstration projects in different clusters of industries. <br><br>• Explore setting up of Common facility Center <br><br>• Initiate R&D programme | Help in increasing productivity in different sectors of economy | Five demonstration Project <br><br>1 common facility center | Workshop at RCs involving the PIs and International Guest Faculty from University of Delft, Netherlands scheduled in January 2007. <br><br>A project for deployment of demonstrating projects in three identified sectors: consultancy, banking, & manufacturing granted to STPI. Department has cleared for establishment of demonstration Software to different States for Banking Software. <br><br>Projects in other areas are being evolved with academic institutions and other R&D groups. |
| | | **Proliferation of .IN Domain Names in the country** | | | | Campaigns / schemes for increased .IN Domain Name Registration. <br><br>Internationalized Domain Names in Tamil, Malyalam, Hindi, Marathi, Bangla, Assamese and Urdu Languages | Proliferation of Internationalized Domain Names in Indian Languages | On-going activity <br><br>Identification of Linguists / technologists for Domain Name registration in Indian Languages - June,06 | Language variant tables for Tamil, Malayalam, Hindi, Marathi, Bangla, Assamese and Urdu are ready. <br><br>The implementation document for Tamil and Malayalam languages have been proposed and will be launched in April 2007. |

Chapter-IV
Review of Past Performance

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | **Promotion of Migration to IPv6** - To sensitize the stakeholders in the country towards proliferation of IPv6 | | | | • Promotion of IPv6 enabled Testbed with applications in mobility, security and Quality of Service for distance education and VoIP.<br><br>• Setting up of National Internet Registry | • Would help in increasing deployment of IPv6 enabled network by Service Providers and end users. | Initiation of the work for Tamil, Malayalam, Hindi, Marathi, Bangla, Assamese and Urdu Languages - Sept 2006<br><br>All Indian Languages to be covered within 2 years and registration in Indian Languages to be initiated by Dec 2006.<br><br>Demonstration of IPv6 based application in ERNET backbone - Sept,06 Demonstratio | IPv6 National summit organized in April 2006 to chalk out the new proposals, implementation etc. |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|--------|--------------------------|--------------------|------------|------|------|---------------------------------------------|--------------------|----------------------|--------------------------|
|        |                          |                    | Non-Plan | Plan Budget | Comp IEBR |                                             |                    |                      |                          |
|        |                          | Quality of Service Nationwide Network Testbed<br><br>Introduction of IT based education and skills among students at an early stage.<br><br>To link ERNET with European Research Network GEANT |          |      |      | • **Establishment of architecture, bandwidth protocols for assured Quality of Service(QoS) for Applications viz, Distance Education, Voice over IP and Videoconferencing**<br><br>Introduction and establishment of ICT based education practices in all schools in the country.<br>• Signing of MOU with Delivery of Advanced Network Technology of Europe Ltd (DANTE)<br>• Procurement of International Bandwidth<br>• MOU with TIFR and DST | Evolution of a set of Standards, protocols Quality of Service (QoS) assured networks for IT based applications and services Proliferation of Technology based Education deployment at schools in schools at village level. It will facilitate direct connection between the two reasons to support research work. | n of mobility, security and Quality of Service for Applications viz, Distance Education and Voice over - Dec'06.<br><br>QoS network architecture for testbed network - Dec 2006.<br><br>Demonstration of QoS application and services by 2007<br><br>Introduction of ICT based education in all schools in the country by the year 2010. Dec 2006 | Multipoint Lable Switching (MPLS) on the ERNET backbone is completed. Individual institutions are linking up to this backbone to carry out the distance education, VoIP and Video Conferencing.<br><br>45 Mbps link between India and Europe has been established and operational. |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| 17. | Headquarter | • Secretariat & Bldg. <br> • Foreign Trade <br> • Exhibitions <br> • Others - Seminars/ Workshops | 19.00 <br><br> 3.10 <br><br> 0.80 <br><br> 0.50 | 11.00 | - | • To meet running expenditure of the Secretariat and Plan Schemes <br> • CST re-imbursement of STPI units <br> • To organise exhibitions abroad for Trade promotion <br> • To organise seminars/ workshops for development of electronics in IT | • To run office smoothly. <br> • Export promotion <br> • Trade promotion <br> • Development of electronics in IT | | |
| 18. | NIC | | - | 280.00 | - | • e-Governance Network Infrastructure for providing Internet and data services network to the Government Departments, State Governments, District Administrations and other Government bodies. <br> – Setting up of DAMA VSAT based disaster recovery network & upgradation of existing DAMA HUB <br><br> – Setting up of DVB VSAT based disaster recovery network for the Direcway and Skyblaster Technology HUB | It will provide <br> • Network Infrastructure Facility Provider(NIFP) <br> • Network Service Provider(NSP). <br> • Application Service Provider. <br> • Content ASP to the Central Government, State Governments, District Administrations and other Government bodies. | January 2007 <br><br><br><br> January 2007 | Order placed. <br><br><br><br><br> Proposal under finalisation |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | | | | | – Increase both transmit and receive Internet bandwidth by at least 50 Mbps each. | | June 2006 | Internet bandwidth increase by 150 MB. |
| | | | | | | – Link to National Internet Exchange will be increased to 30 Mbps. | | June 2006 | Completed |
| | | | | | | – Filtering in terms of Internet content management will be extended to all state and district centres of NICNET. | | September 2006 | Completed |
| | | | | | | – Connectivity with the National Internet change of India at various locations such as Kolkata, Chennai, Bangalore and Hyderabad where Gateways are present. | | March 2007 | To be undertaken when traffic exchange is optimal. NIXI in Hyderabad and Chennai has not come up |
| | | | | | | – Setting up of wireless network in State/UT capitals. | | Dec. 2006 | Work completed for all States/UTs as per the current requirement |
| | | | | | | • Cyber Security at network, forensics lab, log analysis solutions, server and application levels for NICNET. | | | |

| Sr. No | Name of Scheme/ Programme | Objective/ Outcome | Outlay 2006-07 (Rs. in crore) | | | Quantifiable Deliverables/Physical Outputs | Projected Outcomes | Processes/ Time basis | Status as on 31.12.2006 |
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| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | | | | | – Setting up of Forensics Lab | | Dec. 2006 | Equipment installed and made operational |
| | | | | | | – Providing of Log Analysis Solution | | March 2007 | Log Analyser software made fully operational |
| | | | | | | – Provision of Application Firewall | | October 2006 | The firewall made operational and work completed |
| | | | | | | • Video Conferencing Network augmentation and setting up of DR. | | | |
| | | | | | | – Videoconferencing DR setup at Hyderabad | | October 2006 | Proposal finalized and being processed |
| | | | | | | – Expansion of IP Based Multipoint Video conferencing at NIC-HQ & State capitals | | January 2007 | Video phone installed work started on multiple VC |
| | | | | | | – Multipoint VC recorder & VC augmentation facility | | Dec 2006 | Tender for procurement being processed. |

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|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | | | | | • Data Centre Infrastructure (including storage), India Portal. | | | |
| | | | | | | − To strengthen Oracle DB infrastructure by upgrading underneath hardware as well as software. | | Dec 2006 | Completed |
| | | | | | | − Expand the GOI Search Infrastructure with state of the art hardware/software along with necessary Appliances/technologies from popular Search Engines. | | September 2006 | Implemented |
| | | | | | | − Upgrade the WebStat infrastructure with more licenses and up-to-date version of the Web Trends Software | | June 2006 | Completed |
| | | | | | | − Upgrade/expand the web hosting infrastructure with state-of the hardware/software | | December 2006 | Completed |

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|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | | | | | – Augment the existing storage infrastructure with low cost storage solution and centralized backup facility for forthcoming e-gov. applications. | | Sept. 2006 | Tender under evaluation. |
| | | | | | | • Capacity Building for e-Governance Applications Development and Implementation. | | | |
| | | | | | | – Implementation of Redundancy and fail safe architecture at NICCA. | | July 2006 | Redundancy at web server level and database implemented & completed |
| | | | | | | – Implementation of Interactive Voice Recognition services. | | July 2006 | Completed |
| | | | | | | – Preparation for Standards Certification of the products already under implementation inter-states and intra-states for horizontal transfer of ITES products. | | March 2007 | Proposal approved. H/W and S/W procurement under process. Already e-granthalaya, Library management product has been standardized |

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|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | | | | | – Augmentation of IT infrastructure for NE States | | March 2007 | District level departmental network is being formulated |
| | | | | | | – Development and Setting-up of GIS server technology for various spatial data owners and setting-up of geo-spatial information network, in consonance with other national initiatives such as NSDI, in Enterprise GIS Framework & architecture. | | July 2006 | Completed |
| | | | | | | – District level data development of GIS under Natural Resources Informatics (NRIS) Programme for sustainable district planning. | | March 2007 | Data as received from SOI updated, LISS-III satellite data processing completed for entire country |
| | | | | | | – SDI at NIC Hq, and SDI for NIC State/ Regional Centres for GIS. | | October 2006 | HW/SW data implementation under process at various State units |
| | | | | | | – Under "Computer Aided Digital Mapping Project For Six Cities (Chennai, Ahmedabad, Kolkata, Hyderabad, Mumbai and Bangalore)" digital map | | March 2007 | Supply of H/W and S/W completed at all locations. Digital mapping center inaugurated at Kolkata on 27.9.2006. Digitisation work progressed |

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|---|---|---|---|---|---|---|---|---|---|
| | | | Non-Plan | Plan Budget | Comp IEBR | | | | |
| | | | | | | compilation work will be in progress for the above six cities for Utility Mapping Project. | | | |
| | | | | | | – Provide the Domain management as well as renewal services as online services for India Image. | | Sept 2006 | Completed |
| | | | | | | – Information Kiosks in all the High Courts and their Benches. | | Sept 2006 | Proposal is under process |
| | | | | | | – Upgradation of LAN & Servers to High courts. | | Sept 2006 | Proposal is under process |
| | | | | | | – Digital Signature and related software to High courts | | Sept 2006 | Proposal is under process |
| | | | | | | – Commissioning and operation of e-Learning services from Delhi centre to states and districts over NICNET for e-Learning project. | | June 2006 | Completed. |
| | | | | | | – Procurement of e-learning contents for NIC capacity building for which the specifications will be drawn and the vendors will be empanelled. | | March 2007 | Preliminary work started. |