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I.   Outcome Budget 2006-07   - Status of implementation / progress during the year 2006-07.

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2006-07 (Rs. in crore)			Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Processes/ Time lines	Status as on 31.03.2007
			Non-Plan	Plan Budget	Comp lEBR				
1.	**Microelectronics and Nanotechnology 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.** **IITB:** 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. **IISc:** 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. **Nanometrology at NPL, New Delhi** - Provide facility for calibration & traceability for linewidth, step height & surface texture measurement and calibration of low voltage (nV), low current (pA) & electric charge. International compatibility by participation in international intercomparision & round robin tests.	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 The quantifiable deliverables will start coming out from the end of third year onwards from the date of initiation.	**(a) IITB :** i) 36 equipments have been ordered ii) 4 Ph.D & 5 M.Tech students admitted iii) 3000 Sq. ft clean room is nearing completion **IISc. :** i) 5 equipments ordered ii) 4 Ph.D students admitted iii) Building construction started **(b) NPL:** 7equipments installed, 2 equipments received & 4 equipments ordered
2.	**Technology Development Council**	**IT for Industrial Applications** To strengthen local base for R&D/application in Electronics and IT in the field of Industrial Electronics, Agriculture and Water Resources	-	21.00	-	**National Mission on Power Electronics Technology (NaMPET)** Completion of infrastructure upgradation activities at Nodal Centre and participating academic institutes • Second industry-academic meet for	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) Greater industry-academic -	5 year programme from Nov'04 December 2006 October 2006	Infrastructure Develop-ment projects at C-DAC(T) and other academic institutes have almost been completed. Held during Oct.30-31 and

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						awareness creation in power electronics	R&D experts interaction leading to feasible development of projects, TOT etc. (Intermediate outcome)		Nov.1, 2006 at IIT-Kanpur.
						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	The IGBT Gate Driver project has been declared completed successfully. 3 other major projects for application in Railways, Power Sector and Defence Labs have been initiated with about Rs.6.5 crore funding coming from these user agencies.
						Other R&D Projects • Area Traffic Control System implementation at Pune city	Possible TOTs, improvement in traffic management in Pune	September 2006	3 ToT agreements have been signed with M/s Webel Mediatronics Ltd., Kolkata, KELTRON, Tvm and M/s Bharat Electronics Ltd., Bangalore.
						• 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	Review of the project done in March,'07. The design of the IC engine by M/s KAL requires modification. A decision to use a commercially available IC engine has been taken . Actions to re-initiate field trials with this new engine have been initiated.
						• 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	These projects have been reviewed and have been found to be progressing satisfactorily. A few of them have been formally closed also.
						Initiation of some new IT application projects in the field of	Techno-economic benefits to	March 2007	A major project on Automation

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						agriculture/water resources	Indian industry		Systems Technology Centre at C-DAC(T) with an outlay of Rs.24.92 crore has been given formal approval on 30th March, 2007. A few other small projects in the field of Industrial Applications at CSIR labs have also been initiated.
						IPR ● Ten Technology Trends Alert Reports based on Patents will be prepared ● To be filed: - 30 Copyrights. - 15 Patents. - 05 Design & Trademarks	Availability of technology development inputs reg. Patents and creation of IPR's in the country	March 2007 March 2007	6 Technology Trend Reports prepared. Filed - 20 copyright, 15 obtained - 12 Patents, 3 obtained - 4 Trademark,2 obtained
3.	**Convergence, Comm & Strategic Electronics Equipments**	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 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. 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 14 projects have been initiated in the Convergence Communication , Broadband Technologies and Strategic Electronics areas. 1.Development of Autonomous Buoys system for Radio Acoustic Positioning and Tracking at Cochin University of Sc. & Tech., Cochin. 2.Establishment of Compact Antenna Test Range Facility at SAMEER Kolkata. 3.Establishment of Millimeterwave Facility at SAMEER, Kolkata. 4.Development of a server driven video calling/ messaging application for Java enabled GPRS mobile phones by CDC Delhi. 5.Development of TETRA Communication System for

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									Disaster Management (Phase 1) by CDAC, Trivandrum. 6.Development of Tracking and Monitoring system using RFID tags for Disaster Management in underground mines by CMRI, Dhanbad. 7. Autonomous Mobile Vehicle by C-DAC(T) 8. Flexible, experimental Test Bed for Evaluation of Ad hoc Wireless Networks by IIT Hyderabad Design of Next Generation Wireless Communication Systems and Networks by TIFR, Mumbai Study project on Wireless Sensor Networks: The Technology and Roadmap Thereof by IIT, Bombay Building a prototype of WLAN Manager (WM) : Device for performance Management of a WLAN, IISc, Bangalore Design and development of Software Defined Radio, CDAC, Trivandrum and SAMEER, Chennai SoP by SAMEER Dev of Autonomous Vertical Profiler for Water columns in Coastal Waters by NIO-Goa * The ongoing projects are being reviewed by their respective PRSGs on regular basis. There are 27 new project proposals which are under process for approval in the CC &BT area.

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4.	**Components & Material Development Programme**	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. Two projects have been initiated and one project is being initiated |
| | | | | | | Processing of LTCC interconnect layers | Availability of technology for solder paste, LTCC process | March 2007 | LTCC process is fully developed. New structures for medical testing applications have been taken up under a sponsored project.

The solder paste up scaling is completed and its technology transfer is in progress. Process demonstration to take place shortly. |
						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.
						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 Light emission optimized. QDS for Blue, Green & Orange light emission completed. The PL studies are also completed. EL studies are in progress
						QDS- polymer composite that emit visible light.	Quantum dots/polymer composite with blue, green and orange light emission	March 2007	

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						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 zone refined cadmium show 6N+ purity with reference to 50 impurity elements as analyzed by GDMS. The technology is ready to transfer.
						To produce Low voltage capacitor grade tantalum powder.	Regular preparation of low voltage capacitor grade tantalum powder	March 2007	Final Technology Transfer document is ready to transfer the technology during EITEX-2007.
						To produce high purity Ta2O5 and supply to end-users.	Availability of technology High purity Ta2O5	March 2007	Tantalum powder of CV ~ 15000 to 16000 µFV/gm and DCL in the range of 0.0005 to 0.0002 µA/µFV prepared. Technology is transferred for structural grade Tantalum powder.
						Process technology for LTCC substrates for packaging.	LTCC green tapes of 4" x 4" and thickness 125- 175 µm.	March 2007	Optimized co-firing process for LTCC green tapes with pure Ag paste and compactibility established. Prepared ^"X6" size LTCC green tapes with 125-135 micron thickness. Supplied 25 Nos of 6" x 6" LTCC green tapes to C-MET, Pune..
						Process technology for flexible high K and low K microwave substrates	25 Nos. of 2"x 2" size cu-cladded microwave substrates	March 2007	3 Fine tuning of the microwave dielectric properties of the Cu-cladded low K substraes successfully completed. 25 Nos. of low K substrates

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						Process technology for PMN-PT multilayer ceramic actuators.	250g batch of PMN-PT material and Multilayer electrostrictive actuators.	March 2007	meeting all the targetted specifications have been prepared and system level evaluation carried out. Multilayer PMN-PT based electrostrictive actuators from indigenous source with ~ 50 micron was fabricated which showed targetted 0.1% strain at 150 V.
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. • Initiating activities to set up facilities for fabrication of linac tubes on a pilot scale. • 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. Construction activity for linac tube facility to commence by Oct. 2006 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 (MGIMS), Sewagram is treating patients The second 6 MV machine slated for installation at Adyar Hospital, Chennai has been evaluated and QA & ATP reports submitted and awaiting clearance from Review Committee. The machine is ready for dispatch to Adyar Cancer Hospital. Construction work for Phase I (Radiation bay) has started. Tendering activity for Phase II civil work completed. Procurement of equipments is in progress. Wheel chairs have been fabricated for initiation of field trials and the unit is being sent to NIOH, Kolkata Thirteen new projects have been initiated

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6.	**Technology Development 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 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.	Proliferation of Indian Language and Software tools to achieve the maximum benefits of ICT.	Launch of Software tools for Marathi, Punjabi, Urdu, Bengali, Oriya, Assamese languages - April-Sept. 2006 Other Indian Language - October 2006 – March 2007	CDROM's containing Software tools & fonts for Assamese, Kannada, Malayalam, Marathi, Oriya, Punjabi and Urdu languages were released in January 2007. The software tools & fonts for other Indian languages are being developed /consolidated.
						Specialized Manpower Development in Language Technology Generation of ~ 100 trained manpower (Masters level ~ 50 & PG Diploma Level ~ 50) in the domains of Knowledge Engg./ Computational Linguistics and Software Localization	Availability of trained manpower for innovative product development and research in Language computing.	Launch of Masters & PG Diploma programme in 8 Institutions – April-Sept'06 1st batch of trained manpower in domain of Knowledge Engg/ Computational Linguistics, and Localization Technology – October'06-March 2007	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 has been initiated at 3 institutions namely C-DAC Thiruvananthapuram, C-DAC, Kolkata and BIT Mesra, Ranchi.
						Development of Open-Type fonts in Indian Languages Development of 286 Open-type fonts in 11 Indian Languages	Proliferation of Indian Language Open Type fonts and use of Indian Languages on web.	Completion of development of all 286 Open-Type fonts in 11 Indian Languages, one 'Sakal-Bharti' multilingual font - Sept'2006	Under this initiative as of now a total of 279 Open Type fonts are developed & rest of the font's development is in progress

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						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, Internet in Indian languages on Mobile devices etc, in web standards have been identified. Discussion with W3C initiated for providing inputs with respect to Indian Languages.
						Centres for Indian Language Technology & Resources (CILTR) (a) Standardization of Unicode issues in collaboration with State Governments. (b) Development of niche technology in collab. with state governments. (c) Training & consultancy to state governments.	Proliferation of Indian Language softwares and solutions through State Governments' active participation	SFC approval - Sept. 2006 Launch of CILTR projects in collaboration with the State Governments - March 2007	Development of Robust Document Analysis and Recognition System for Printed Indian Scripts Development of Online Handwriting Recognition System for Indian Languages System Development of Cross Lingual Information Access System Development of Indian Language to Indian Language System Development of English Language to Indian Language System. A project "Development of English-Indian Languages Machine Translation System based on the Anglabharati technology has been initiated in consortium mode

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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: Cryptography and Crypt analysis Network and Systems Security Security Architectures Vulnerability Assessment Assurance Technologies Monitoring, Surveillance and Forensics Intrusion Detection Content and Traffic Analysis Computer forensics	It will result in development of indigenous cyber security products and skill ed man power	April–June 2006 Review of 5 on-going projects Completion of 1 project - July–Sept' 2006 Review of 10 on-going projects Completion of 1 project - Oct-Dec'06 Review of 15 on-going projects Completion of 3 projects Formulation of 5 new projects. - Jan-Mar'07 Review of 20 on-going projects Completion of 9 projects Formulation of 2 new projects.	During 2006-07, 61 review meetings of the on-going projects were held. Eight 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, enterprise wide intrusion detection system and analysis of security exposures to prepose a secure architecture & development of tools for intrusion detection in mobile adhoc networks were completed. Seven 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 and multi-camera algorithms for security & surveillance were formulated and considered by the Working Group.
8.	IT for Masses (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. • Telemedicine networks connecting specialist hospitals with rural hospitals in	Patient facilitation and time saving which results in higher patient turnover in the hospital, number of patient records generated. It will increase number of consultations from remote locations by the patients .	Installation of hardware, software, networking and testing - Sept 2006 Installation of hardware, software, connectivity and patient consultation Dec 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

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						- West Bengal			At three existing referral centres and one nodal centre at Govt Hospitals, equipment have been upgraded to both IP &ISDN Communication links Two new referral centres and three nodal centres have been done and training has been provided to doctors, paramedics and operators Telemedik Telemedicine software has been upgraded from version 3.1 to Telemedik 5 which has been installed at the centres.. Patient consultations are being provided from these centres.
						- Himachal Pradesh		April 2007	Project has been extended to September 2007 Customisation of the Telemedicine software Application has been completed, Telemedicine centres at following places namely (i) Mahatma Gandhi Medical Science College, Rampur; ((ii) Regional Hospitals at Kullu, Chamba, Hamirpur, Nahan & Rekong Peo; (iii) Civil Hospitals at Rohru & Karsog; (iv) Zonal Hospitals at Mandi & Dharamshala & (v) Indira Gandhi Medical College, Shimla have been established.
							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 –being implemented by CDAC Pune

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						Development and deployment of electronic gadgets for Telemedicine applications in the emerging areas of technology		At least 2 projects – March 2007	and DCL Software Ltd, Chennai 2. Customised development and implementation of Telemedicine Application for rural areas of Punjab- being implemented by CDAC Mohali
						• To conceive and formulate few projects for development of Women, SC/ST sector.			Ten Projects were approved for GIA during 2006-07. Out of which 9 belongs to Women Empowerment including SC/ST Women and 3 belongs to SC/ST sector.
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: • • Providing urban services to rural areas through the use of communication technologies. • Empowerment of the disabled. • Availability of quality education in rural areas.	Continuing and long term process. The test deployment of technologies, applications and products will be undertaken as under: Test deploy-ment is under way. Test deploy-ment will start during the year – March 2007. Test deploy-ment during the year – March 2007.	Sh. S. N. Goswami has taken over as MD & CEO of Media Lab Asia w.e.f. 16th October, 2006. e-Sagu project was reviewed by a Project Review and Steering Group (PRSG) constituted by Media Lab Asia. Industry and NGOs have shown interest for the deployment of e-Sagu. Development of business model was recommended. The Media Lab Asia Core Group on ICT for Livelihoods met and discussed on the project proposal entitled "e-Sagu – Productization, Optimization, and Developing a Business Model" for further activity on eSagu. the Core Group recommended a project on eSagu for development of a business model, support to deployment by industry and NGO organizations and further refinement and packaging of the technology. The projects in the areas of Rural Mobile Telemedicine, and development of cost effective Insulin Pump at Amrita University have been reviewed. "eSagu" features as a select entry

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									among worldwide latest novel internet applications in the book "Innovative Application Case Study 2006" published by Institute for Information Industry, a not-for-profit Think Tank for Taiwanese Ministry of Economic Affairs in Taipei.
									Media Lab Asia participated in "SAMARTHYA-2006"- An Exhibition on Assistive Devices and Services for the persons with the Disabilities organized by Ministry of Social Justice and Empowerment, Govt. of India at Chandigarh from 6th to 9th Nov. '06. Media Lab Asia showcased the following technologies/ products for disabled SAFA (Screen Access for All) Sanyog (Augmentative Communication System for the people affected with Cerebral Palsy) VAANI (Communication Aid for people affected with Cerebral Palsy) Media Lab Asia Working Group on ICT for Primary Healthcare has met on 27th November, 2006 and discussed on five new project proposals regarding development and deployment of health management and information system with data collection using handled computers in the villages, deployment of the rural telemedicine at primary health centres, development of low cost and scalable mobile telemedicine system, Development of a appropriate and low cost telemedicine terminal, and medical emergency services using cellular phones.
									Media Lab Asia and IIIT Hyderabad have participated in the Buyer Seller Meet and conference on Fruit

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									Industry of Himachal Pradesh in Simla and presented and Esagu project. There is a good interest of fruit growers associations the Horticulture university in Simla and others in the deployment of eSagu for Horticulture in Himachal Pradesh.

Media Lab Asia asn IIIT Hyderabad have participated in the 4th Annual CSI-2006 Conference in Kolkata. eSagu has been conferred with CSI Nihilent Best e-Governance Award for the year 2005-2006 based on the overall assessment.

Media Lab Asia and IIT Kanpur has attended a meeting on Tele-ophthalmology organized by DGHS, MH&FW and presented on the suitability of Sehat Saathi system of Media Lab Asia for Tele-ophthalmology. DGHS, MH&FW is studying various products for providing Tele-ophthalmology services in remote areas and considering sehat-saathi of Media Lab Asia as one of the options. Working Group for Empowerment of disabled met to analyze and give their recommendations on the various projects that may be taken up by Media Lab Asia for ICT interventions in the areas Empowerment of the Disabled. The Working Group cleared some of the proposals including "Supply, installation & commissioning of 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". A paper on Media Lab Asia. |

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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	-	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
						Earn Rs. 40 Crore as revenue	STQC will move towards self-sustenance	March 2007	Rs. 37.50 crore
						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	Completed
						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
						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
						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
						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	Completed
						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
						Human Resource Development by conducting DOEACC 'O' & 'A' level courses in NE region.	Computer education to weaker/backward sections.	On continual basis.	In progress
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 - Creation of manpower & knowledge sharing in bio-IT	Park Infrastructure Development in 2006-07	M/s ASCENDAS, Chennai was shortlisted who have now firmed up procurement of land from the Government of Tamil Nadu.

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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. 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 State Wide Area Network (SWAN) and Content development etc. in E-Governance	-	440.00	-	**Establishment of SWAN** Provide 2 MBPS Data connectivity upto Block level in all States/ UTs in phases. SWAN will be operational in 7 States by March 2007. 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.	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. Extend benefits of ICT to Rural Masses & provide outlets for delivery of Govt. services.	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 December 2007	Proposals from 28 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 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

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		domain are being taken up.							The Schemes of 11 States for Rs. 877.63 crore has been approved and Rs. 109.71 crore have been released to 11 States. Three States, Jharkhand, West Bengal and Haryana have completed the selection process of Service Centre Agencies (SCA). Jharkhand and West Bengal have issued the Letter of Intent (LOI) to the selected SCAs. In addition to the above States, Punjab, Bihar and Assam have also issued RFP. The Scheme for Rs. 551.86 crore for 7 States has been approved and Rs. 68.98 crore approved as first installment towards revenue support for these States.
						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 preparedness. - Dec'2007	Policy Guidelines on providing Technical & Financial Assistance to the States have been formulated. EFC note on the scheme forwarded to Planning Commission and the Ministry of Finance
						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 2006	EFC has been conducted on 5th March, 2007.

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						India Portal Establish Single window portal for delivery of all Govt. services.	Single point access to all information & services from various Govt. Depts.	December 2007	▪ India Portal has received the Silver Icon Award under the Best Government Website Category in the 10th National Conference on e-Governance held in Bhopal during Feb'07 ▪ India Portal would be providing Multilingual content. The Hindi version of the India Portal is available. ▪ New Sections are being added on the Portal ▪ Around 15 new On-line services offered by different State Governments have been added. ▪ Around 85 forms and 14 new schemes have been added ▪ About 50 new Rules/Acts of different States have been contributed to the National Portal. ▪ Contact Directory for around 30 States have been added. ▪ Live webcast was made available through the National Portal on the following ▪ Finance Minister's Union Budget Speech ▪ Railway Ministers Budget speech on Rail Budget ▪ Hon'ble President's Address to the Joint session of Parliament ▪ Hon'ble President's address to the Meghalaya Legislative Assembly and the IGNOU Convocation were made available through the National Portal.

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						National e-Governance Service Delivery Gateway (NSDG) 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	▪ Meetings held with C-DAC to discuss implementation strategy & timelines of the NSDG MMP project. ▪ A proposal was submitted by CDAC to DIT detailing the role and responsibilities of the partners, project team structure, estimated budget breakup etc. ▪ A two-day meeting was held with CDAC team on to discuss on the System Requirement Study documents, Project Management Plan including other deliverables & timelines of the project. ▪ An evaluation committee has been setup by CDAC to review the Application Server of the commercial vendors.
						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.	July 2006	PMU set up. Monitoring of NeGP being done.
							Providing of Technical cum Managerial support to Line Ministries/ Deptts.	July 2006 onwards	Assistance to the Ministries being provided.
						Human Resource Development Training of CIOs & Policy Makers in phases.	Availability of trained man-power to manage/execute various projects under the NeGP	Continuing activity	No Change
						R&D in e-Governance Built expertise in the area of Security, Local Languages, etc	- Self-reliance - Bridging Digital Gap	Continuing activity	▪ Indian Language Computing Initiative – CDROM's of 7

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							- Development of cost effective solutions.		languages which are Assamese, Kannada, Malayalam, Marathi, Oriya, Punjabi and Urdu are released
						UNDP (Project - ICT for Development) 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. The project has established: 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 (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.
						Technical Support Provide specialized manpower to the line Ministries/ Depts. for evolving project proposals under the NeGP.	It would help in bridging technological/ managerial gaps existing in various Ministries/ Depts. to execute the NeGP projects.	Continuing activity	No Change

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						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	Process study completed.
						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.
13.	IT Act / Certification & Network Security	Legal recognition of electronic data interchange transactions Enhancing capabilities in prevention of Cyber crime and use of Digital Forensics Enhance the Security of Indian Cyber space Providing advance information to users on cyber security matters to help them protect their IT systems and network Increasing Cyber	-	7.00	-	Promotion of Digital Signature certificates through workshops/seminars.	Enhanced use of digital signature for e-governance, e-commerce, banking applications, etc.	On-going	The number of Digital Signature Certificates issued are likely to be about 3,50,000 by the end of 2006. 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 framework. After the Cabinet approval, the Information Technology Act (Amendment) Bill 2000 has been introduced on 15th Dec.,2006 during the Winter Session of the Parliament. The Bill has been referred to Parliamentary Standing Committee.

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		Security education and awareness				Updation Legal framework structure for formulation, analyzing and enforcement of IT Act 2000 and prevention of cyber crimes in the country • Tracking Indian Website Defacements • Tracking open proxy servers • Security Incident Response • Creation and maintenance of Vulnerabilities Data Base Security Alert/Incident Notes- 20 • Security Advisories- 30 • Security Vulnerability Notes- 100 • Security Guidelines- 05 • White Papers- 10 • Training for CIOs of critical sectors - Sector wise • Domain specific -10 Trainings	A legal framework, which will instill confidence of the users and investors in the area of Information Technology in the country. Enhanced web Security Effective control of e-commerce fraudulent activities Containing the effects of cyber security incidents and ensuring business continuity Latest virus definitions will help in implementing proactive measures 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 On-going on-going	• Tracking Indian website defacement - 5211 Indian websites defaced in 2006 - 1928 Indian websites defaced in 2007(till March) • Tracking open proxy servers - Tracked and get them shutdown around 1837 open proxy servers in 2006 and 260 open proxy servers in 2007(till March) in India. • Security incident response - resolved 552 security incidents in 2006. - resolved 147 security incident in 2007 (till March) • Creation and maintenance of vulnerabilities database • Security alert/ incident notes- 48 in 2006, 11 in 2007(till March). • Security Advisories-50 in 2006, 16 in 2007(till March). • Security Vulnerability notes-138 in 2006, 39 in 2007(till March) • Security guidelines-5 in 2006, 1 in 2007(till March) • White Papers-10 in 2006, 2 in 2007(till March) **In 2006** • Training for CIO's of critical Sectors- sector wise • Domain specific-10 Trainings • Training for system Administrators of ASEAN

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									Countries. • Cyber Security Workshop for the members from ARF. **In 2007** • Information Security Executives Readiness Training Programme for CISOs" on 12-14 February, 2007 • Workshop on "Imple-menting Secure Coding Practices" on 16th January, 2007 • Became member of Asia Pacific CERT(APCERT) • Became member of Forum of Incident Response Security Team. (FIRST) • Microsoft • RedHat • Cisco • TrendMicro • eBay • EMC2 • McAfee • Symantec • Computer Associates Pursuing to collaborate with HP, F-Secure, IBM, Juniper
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 Handing over of above CICs to States 68 Additional CICs in newly created	ICT Connectivity and citizen interface for IT enabled e-government services and training. Faster & Reliable Communication, Timely Access to School Results & Election Results.	Feb 2007 Feb 2007	CICs are operational and providing services Gap bridging arrangement to facilitate merger of CICs into CSCs approved.

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						blocks in North Eastern States providing services		Dec 2006	Under progress (16 CICs including CIC at Nathula Pass in Sikkim made operational)
						Handing over of these CICs to States	ICT awareness creation and Employment Generation.	Feb 2007	Gap bridging arrangement to facilitate merger of CICs into CSCs approved.
						135 CICs at Block level in Jammu & Kashmir providing services		July 2006	127 CICs are operational and providing services.
						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.	July 2006	38 CICs in A&N and 30 CICs in Lakshadweep are operational and providing services.
						95 CICs at Block level in Uttaranchal and Hub at Roorkee/ Dehradun	Time saving & Money saving. Citizens increased awareness about the local developments in the area.	March 2007	Project not to be pursued further
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. • 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	-	38.40	-	e-learning content in CD-ROM operable on window/Linux environment, Training on Appl. S/w: Maya Studio, 3D Studio.	A prototype tool (software package in CD form) will be available for use by students, teachers and corporates from film industry & commercial	2 on-going projects to be completed - March 2007	85% of Software and Hardware procurement & installation completed Resource mobilisation, storyboard preparation,

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		conventional classroom system to maximise the benefits flowing from the traditional education system				Standardised tools for e-learning courseware. Software for content based delivery & distri-bution of e-learning courseware. Training of 450 teachers on e-learning over 3 years. New Projects on Technologies & tools, standards & contents.	Artist. New standards & Algorithms for e-learning adaptive applications for optimisation of bandwidth utilisation. A standard media mark for languages needs to be designed to apply principles of Web to multimedia, creating continuous Media Web.	Remaining 2 to be completed in the subsequent years. March 2010	Content development in progress Completed content based compression algorithm A network streaming protocol and Real time captioning system are under development. Collected material regarding ISO/IEC initiatives, British Learning Association Quality Mark etc. Standard related to course content and certification procedures 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 Government Officials and awareness Programme in the area of Information Security	Generate qualified IT security professionals for Industry/ Govt. Human Resource Development and awareness in the area of Information Security. Secured environment for BPO, Commerce and governance.		Five RCs and thirty-four PIs have signed the MOU for implementing the project. Two Faculty Training Programmes for the PIs have been conducted by TIFR, Mumbai. The syllabus and the course structure for various courses at the levels of B. Tech., M. Tech., etc., have been prepared by leading academicians and made available to all the Resource Centres and Participating Institutes. The Resource Centres, Participating Institutes and other implementing agencies have taken action to launch various courses in the area of Information Security. 1st phase of equipments have been

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									procured and supplied by NICSI to the PIs for setting up of a Lab on Information Security at their end. The procurement of equipment for 2nd phase for the PIs and RCs is presently underway.
									The activity of training of Central and State Government officers is being implemented through six DIT organizations.
									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.
									Short-term training programmes for the executives/officers of Government organisations are being orgainsed by the Master Trainers.
									An Action Group for Awareness Programme was constituted under PRSG. A meeting of the Group was convened and based on its recommendations the task of launching awareness programmes was assigned to CDAC Hyderabad.
								Sept. 2006	An Academic Committee to look into various issues of ISEA project was constituted under PRSG. Various issues were referred to the Academic Committee and based on its recommendations action has been initiated for launching the following activities: Ph.D Programme – through IIT Madras Attending conferences, paper presentation, short-term courses, workshops, tutorials etc. – through

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		Human Resource Development in the country in the area of VLSI Design.				Completion of setting up of Labs at the 19 institutions,

Supply of equipments to the remaining 13 institutions and completion of setting up of these labs.

One RC/PI annual workshop to be conducted;

The Resource Centres to conduct two IEPs for training of faculty of Participating Institutes.

Creation of VLSI Design Resource website and Mirror sites at RCs. | Increased availability of trained manpower in VLSI design to attract investment R&D culture in VLSI domain is expected to be enhanced. | Dec. 2006

Dec. 2006

June 2006/ Dec. 2006

Dec. 2006 | IISc., Bangalore Learning Material Development – through IIT Madras Faculty Training Programme – through IISc., Bangalore International Conferences - – one each through IIT Madras & IISc., Bangalore

Hardware installed at all 32 institutions. Majority of the Electronic Design Automation (EDA) Tools have been installed. Instruction Enhancement Programme (IEP) on Digital IC Design conducted at IIT Kanpur during July 3-14, 2006.

IEP on Low Power IC Design conducted at IIT Kharagpur during September 11-23, 2006.

IEP on RF IC Design conducted at IIT Madras during November 13-24, 2006.

IEP on Semiconductor Design Modelling conducted at IISc., Bangalore during December 4-15, 2006.

More than 100 teachers have been trained so far.

ZOPP Workshop was conducted during 7th - 8th February 2007. VLSI Design Resource Website hoisted for beta testing by 32 institutions. Workshop at RCs involving the PIs and International Guest Faculty from University of Delft, Netherlands conducted during 11th – 18th January 2007. |
| | | **Productivity and** | | | | Setting up of demonstration projects in different clusters of industries.

Explore setting up of Common facility Center | Help in increasing productivity in different sectors of economy | Five demonstration Project

1 common facility center | • An IT awareness programme for the |

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		employment Generation – To enhance productivity and generate employment in manufacturing & service sectors with deployment of ICT tools.				Initiate R&D programme			industries at NOIDA and GREATER NOIDA at NOIDA in collaboration with IIA (Indian Industrial Association). •Two ICT awareness programme has been organised in the surrounding area of Udaipur, Rajasthan to increase Productivity and quality in SME and Service sector in Rajasthan •ICT and E-Commerce awareness programmes to increase the productivity and quality for the SMEs in Mizoram has been planned on 24 April 2007. •On-line proforma has been developed in-house and uploaded on the DIT web-site for the on-line submission of application by the vendors for the registration of their product with DIT • Banking Sector: Software to increase productivity, following four banks have been identified for computerization.
		Proliferation of .IN Domain Names in the country				Campaigns / schemes for increased .IN Domain Name Registration. Internationalized Domain Names in Tamil, Malyalam, Hindi, Marathi, Bangla, Assamese and Urdu Languages	Proliferation of Internationalized Domain Names in Indian Languages	On-going activity Identification of Linguists / technologists for Domain Name registration in Indian Languages - June 2006 Initiation of the work for Tamil, Malayalam, Hindi, Marathi, Bangla, Assamese and Urdu Languages - Sept 2006 All Indian Languages to be covered within 2	Campaigns / schemes for increased .IN Domain Name Registration. Creation of character table, variant table and language rule set for other Indian languages to be initiated.

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		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. Setting up of National Internet Registry	Would help in increasing deployment of IPv6 enabled network by Service Providers and end users.	years and registration in Indian Languages to be initiated by Dec 2006. Demonstration of IPv6 based application in ERNET backbone - Sept 2006 Demonstration of mobility, security and Quality of Service for Applications viz, Distance Education and Voice over - Dec'06.	IPv6 testbed on the ERNET backbone being reviewed for opening it to use by other agencies.
		Quality of Service Nationwide Network Testbed				Establishment of architecture, bandwidth protocols for assured Quality of Service(QoS) for Applications viz, Distance Education, Voice over IP and Videoconferencing	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.	QoS network architecture for testbed network - Dec 2006.	Project nearing completion, progress recently reviewed in April 2007.
		Introduction of IT based education and skills among students at an early stage. To link ERNET with European Research Network GEANT				Introduction and establishment of ICT based education practices in all schools in the country. Signing of MOU with Delivery of Advanced Network Technology of Europe Ltd (DANTE) Procurement of International Bandwidth MOU with TIFR and DST	It will facilitate direct connection between the two reasons to support research work.	Demonstration of QoS application and services by 2007 Introduction of ICT based education in all schools in the country by the year 2010. Dec 2006	45 Mbps link between India and Europe has been established and operational.

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17.	**Headquarter**	Secretariat & Building	19.00	11.00	-	To meet running expenditure of the Secretariat and Plan Schemes	To run office smoothly.		
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.	It will provide Network Infrastructure Facility Provider(NIFP) Network Service Provider(NSP). Application Service Provider. Content ASP to the Central Government, State Governments, District Administrations and other Government bodies.		
						– Setting up of DAMA VSAT based disaster recovery network & upgradation of existing DAMA HUB		January 2007	Equipment delivered and being installed.
						– Setting up of DVB VSAT based disaster recovery network for the Direcway and Skyblaster Technology HUB		January 2007	Direcway HUB delivered and is being used for migration.
						– Increase both transmit and receive Internet bandwidth by at least 50 Mbps each.		June 2006	Internet bandwidth increased 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	Connectivity at Kolkatta and Chennai is not required as traffic, as was expected, has not come up. At Banglore and Hyderabad, NIXI has not set up the infrastructure.
						– Setting up of wireless network in State/UT capitals.		Dec. 2006	Work completed for all States/UTs as per the current requirement.

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						Cyber Security at network, forensics lab, log analysis solutions, server and application levels for NICNET.			
						− 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	Equipment delivered and is being installed.
						− Expansion of IP Based Multipoint Video conferencing at NIC-HQ & State capitals		January 2007	Completed
						− Multipoint VC recorder & VC augmentation facility		Dec 2006	Tender under finalization.
						Data Centre Infrastructure (including storage), India Portal.		Dec 2006	Completed.
						− To strengthen Oracle DB infrastructure by upgrading underneath hardware as well as software.			
						− 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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						− Augment the existing storage infrastructure with low cost storage solution and centralized backup facility for forthcoming e-gov. applications.		Sept. 2006	Work has since been completed
						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	Already e granthalaya, Library management product has been standardized. It is a continuing activity for other products.
						− Augmentation of IT infrastructure for NE States		March 2007	Completed
						− 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	Completed.
						− SDI at NIC Hq, and SDI for NIC State/ Regional Centres for GIS.		October 2006	Completed.
						− Under "Computer Aided Digital Mapping Project For Six Cities (Chennai, Ahmedabad, Kolkata, Hyderabad, Mumbai and		March 2007	Completed. Kolkatta and Hyderabad are functional.

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						Bangalore)" digital map 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	Subsequent to this proposal, the Govt. has given approval for the computerization of 13000 district and sub-ordinate courts through out the country and upgradation of the computer/IT facilities at Supreme Court and 21 High Courts at a cost of Rs.442.00 Crore. NIC is the implementing agencies for this project. Accordingly, upgradation of the IT facilities including provision for information Kiosk, LAN and servers and development digital signature are going to be undertaken under this project.
						− Upgradation of LAN & Servers to High courts.		Sept 2006	
						− Digital Signature and related software to High courts		Sept 2006	
						− 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	E-Content material has since been procured/subscribed/inhouse developed

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II.   Outcome Budget 2007-08 – Status of implementation / progress during the first nine months (upto 31-12-2007).

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2007-08 (Rs. in crore)			Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Processes/ Time basis	Status as on 31.12.2007
			Non-Plan	Plan Budget	Comp lEBR				
1.	**Microelectronics & Nano-technology Development Programme**	To establish centres of excellence for research in Nanoelectronics & 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.		29.00		**(a) Nanoelectronics Centres at IITB & IISc.** **IITB**: Sub 100 nm CMOS Process Development; Nanosystems for Health- care and Environmental Monitoring; Organic and Biopolymer Devices; GaN Devices; Characterization, Modeling and Simulation of Nanoelectronics Devices.	It would enable to create a strong R&D base in nanotechnology in the country.	Setting up of clean room & ordering of remaining equipment	**IITB :** i) 42 equipments procured and are being installed. ii) 12 Ph.D, 4Post Docs &11 M.Tech students admitted iii) Research on 5 deliverables progressing iv) 3000 Sq. ft.clean room completed v) Construction of new building started
						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). **Nanometrology at NPL, New Delhi**	It would further enhance India's emergence as a global destination of VLSI design & embedded systems design.	Installation and commission-ing of equipments will start. Work on sub 100nm C-MOS process will also start.	**IISc.** i) 9 equipments procured, 2 installed ii) 5 Ph.D students admitted ,5 R.Asso. & 1 R.Asstt recruited iii) Building construction progressing
						- Provide calibration & traceability for linewidth, step height & surface texture measurement and calibration of low voltage (nV), low current (pA) & electric charge. International compatibility by participation in international inter-comparision & round robin tests.	The quantifiable deliverables will start coming out from the end of third year onwards from the date of initiation.	Teaching & Research would start	**NPL** 14 equipments and 2 softwares were procured and installed. 1 equpt.ordered. 7 technical staff recruited. 1 International Workshop organised.
2	**Technology Development Council (TDC)**	**IT for Industrial Applications** To strengthen local base for R&D/application in Electronics and IT in the field of	-	32.00	2.50	**National Mission on Power Electronics Technology (NaMPET)** First prototype of the Full Spectrum Simulator will be ready for field trial		August2007	The first prototype is being assembled for trial.

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Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2007-08 (Rs. in crore)			Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Processes/ Time basis	Status as on 31.12.2007
			Non-Plan	Plan Budget	Comp lEBR				
		Industrial Electronics, Agriculture and Water Resources.				First prototype using Matrix Converter Technology will be ready for trial		Aug/Sept 2007	Being tested.
						Third Industry-Academic Meet at IIT-Bombay		October 2007	Held during 6-7th September, 2007.
						Holding of Short-term Courses		May 2007	Course on EMI/ EMC was held at Anna Univ., Chennai during 2-4th May, '07. CANOpen Seminar was held at C-DAC(T) on 23rd June, 2007.
						Initiating new major projects following Technology Roadmap		Sept 2007	5 additional new projects have already been initiated.
						Automation System Technology Centre (ASTEC) Finalisation of Technology Roadmap and initiating new projects	Availability of technology development inputs reg. Patents and creation of IPR's in the country	June 2007	Technology roadmap finalized. 3 new projects initiated.
						Identification of infrastructure upgradation activity and initiation of procurement actions		Sept 2007	The Phase-I of the automation lab upgradation is nearing completion and Phase-II has been initiated.
									2 projects already completed. Others are progressing well.
									Project on e-waste management has been transferred to a different division in the group. New project on agriculture has been approved by Working Gp. And is in the process of approval in DIT.
		Emerging Areas in IT The programme would result in enhanced competencies in				**Smart Cards** Initiation of "Development of Smart Card Terminal" for Transport and other sectors **RFID**		June 2007	PRSG for the project has recommended both time and cost escalation for the project. Approval for the same has been initiated in DIT.

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Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2007-08 (Rs. in crore)			Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Processes/ Time basis	Status as on 31.12.2007
			Non-Plan	Plan Budget	Comp lEBR				
		emerging areas of Information Technologies – due to increased research and development activities in the country.				Initiation of project to take up technology and application development and pilot deployment		June 2007	
						Technology Incubation Initiation of " Technology innovation / incubation support program" Extension of Technology incubation support scheme at technical institutes		June 2007 March 2008	
						IPR 5 Technological trends reports based on patents will be prepared To be filed: - 20 Copyrights. - 12 Patents. - 4 Design & Trademarks To set up an institute for ICT-IPR	• State-of-art infrastructure for Bioinformatics industry, research and academia	March 2008 March 2008	
						Bioinformatics Initiative Project BRAF at CDAC Pune: Providing state-of-art grid enabled Bioinformatics software and teraflop, terabyte facilitated hardware and 10 Mbps bandwidth , to enhance the productivity and quality operation as well as contract research. Project Indian Botanic Gardens Network: Developing web base software tools for digitization and identification of RET species and varieties	• To update and upgrade web enabled Indian Botanic Garden Network. • To finalize standards, compile, data on medicinal and RET plant varieties growing in Indian Botanic Gardens. • To develop OS independent software for digitization of data base on rare and threatened (RET) species and varieties. • To develop tools for automated identification of medicinal and	Procurement of hardware, commercial software, manpower recruitment ,preparation of design document-March 2007 Porting of new codes, deve-lopment of applications to	

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Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2007-08 (Rs. in crore)			Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Processes/ Time basis	Status as on 31.12.2007
			Non-Plan	Plan Budget	Comp lEBR				
						at NBRI Lucknow	RET plant species and varieties. • To facilitate exchange of information among Indian Botanic Gardens. • Development of A Web-enabled Protein Structure Prediction Software Application in drug discovery SW tools and databases to help in Genome Research, Drug Designing and Persevering Biodiversity. Skillset inculcation for 30 scientists/engineers at each centre through 4 modular courses each of 3 months duration.	utilize grid -- March 2008 Procurement of hardware, software & finalization of data standards---Nov 2007 Procurement of the required processors and development / extension of structure prediction algorithms and a thorough validation on small proteins (<100 Amino acids).--- Oct 2007 Development of CGRex tool for sequence visualization – Oct.,2007.	
						Project Development of A web-enabled Protein Structure Prediction Software. at IIT Delhi 4. Development of software for sequence visualization, sequence alignment. Four centers of Excellence for Research and Training will be established for Specific project oriented development in the field of Bio-diversity, Genome Sequence Analysis, Protein modelling and Web based Bioinformatics tools. Setting up of infrastructure for training of Bioinformatics scientists through modular courses. Development of a Computational Workflow for High throughput Genome Analysis project at CDAC Pune Specific project oriented development in applications of Bioinformatics such as pharmaceuticals,plant tissue culture,plant genome database creation etc.	The objective of this project is to build a high-throughput drug discoverypipeline using workflow environment. This software workflow would consist of bioinformatics software that will be loosely tied together in a coordinated system to execute a set of analyses tools in series or in parallel.	To be initiated in 2007-08	
3.	Convergence, Communication Broadband and			22.00		Under the programme financial support is given to R&D in Convergence, Communications, Broadband Technologies and	The R&D activities will result in establishing capability for development and application of projects in the area Supporting	Identification & formulation of new projects. Constitution of	Various institutions across the country in the areas of Communication, Networking and Broadcasting were involved for implementing technology on TETRA Based Digital Mobile Radio, Blue tooth Adapters, Set

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Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2007-08 (Rs. in crore)			Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Processes/ Time basis	Status as on 31.12.2007
			Non-Plan	Plan Budget	Comp lEBR				
	Strategic Electronics					mission critical applications.

Initiation of 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. | productionisation and cost effective deployment of emerging technology bringing not only economic benefits but also contribute to e-inclusion, provide safety, security and improved life for addressing domestic and international markets. | PRSGs for evaluation and project monitoring. | Top Box for conditional access, Tele TV Conferencing System, Call Centre Equipment and application software with multilingual capability, Voice over IP (VoIP) telephone, A number of other strategic applications products like Global Positioning System (GPS), Differential GPS, Non-linear Junction Detector Multienergy Conveyorised parcel viewer were also developed. Wi-Fi Campus wide networks with managed security services as test bed was established. |
| | | | | | | To arrive at specifications, suiting to Indian Conditions, Demonstration and testing of new products and new technologies developed as per specified features. Execution of Transfer of Technology (TOT) to industries/ manufacturers/user organizations. | The R&D activity resulting in import substitution, technology advancement and creation of knowledge capital, as Scientists/Engineers and users get hand on experience and exposure to latest technologies, which is an asset for the country. | On an average two projects in each quarter are planned to be initiated in new technology areas. The projects are generally of duration 1 year to 2 years. | As part of India Wireless initiative, a Center for Excellence in Wireless Technology (CEWiT) for developing Next Generation Mobile wireless system was set up in collaboration with IIT, Chennai. Issues like standards, protocols, and spectrum requirement were considered for indigenously designed system manufacture and deployment. Phase-I of the activity would be completed during FY 06-07.

Status of FY 07-08 :
Following projects are under process :
- Development of a video calling and messaging for Java enabled GPRS mobile phones at CDC Delhi.

-Development of TETRA Communication System for Disaster Management
- Development of Tracking and Monitoring system in underground mines
- Establishment of Electronics Design Centre for system on package in collaboration with Georgia Institute of Technology (PRC) Atlanta, USA.

- Development of Autonomous Mobile Vehicle with Manupulator for Handling of Hazardous Objects.
- Flexible, experimental Test Bed for Evaluation of Adhoc Wireless Networks.
- Design of Next Generation Wireless Communication Systems and Networks |

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Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2007-08 (Rs. in crore)			Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Processes/ Time basis	Status as on 31.12.2007
			Non-Plan	Plan Budget	Comp IEBR				
4.	**Components & Material Development Programme**	To extend knowledge Domain in the field of IT to user in knowledge economy	0.60	10.00		Strengthening of infrastructure and R&D activities of C-MET. ➢ Support 2-3 new projects in the area of display and magnetic materials /devices ➢ Technology documents for four ongoing projects will be ready.		Ongoing activity Nov. 2007 Sept.2007	
						Design, Development and fabrication of optical amplifier (EDFA) modules	Know-how base in design of single and multi channel EDFA. Realization of the devices and possible commercialization.	May 2007	EDFA model 501 collectively developed by IIT (D), Tejas Optiwave Photonics Ltd. for C-Band.
						Prototype instrument to map linear visco-elastic properties of human breast	Development of Photonics for Health and Biophotonics technologies, e.g. Elastographic imaging system for breast cancer detection.	Theoretical studies and simulation and experimental work Dec 2007 Prototype - March 2008	New project on Des. & Dev. of mid-access EDFA Recommended by WG, approved at DIT & initiated. Theoretical studies & experimental work carried out. Design of prototype clinical model based on backscattered light for compactness being worked out.
		To support R&D Projects for the development of Electronics Materials.				Initial compositions of LTCC conductor pastes. Initial compositions of base materials for integrated capacitors and inductors Development of HF components Initial composition of lead free solder bath and patterns for photolithography.	Development of LTCC materials & applications for integrated passive components Development of HD interconnects	March 2008	Patterning optimization using photolithography is in progress. Repeatability such as, printability, sheet resistance and gross warpage etc, of the formulated Ag/Pd paste composition was tested on the LTCC substrate.
						Procurement of modelling software & initiation of designing & fabrication of small scale TATP Assembly	Process for the generation of nanopowders	March 2008	Initiated formulation of different paste compositions by varying the glass percentage, organic vehicle in order to study the parameter effects on the LTCC substrate.
						Reverse Engineering of RG	Coloured glasses for remote	March 2008	This activity has been discontinued since the commissioning and installation of full fledged

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Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2007-08 (Rs. in crore)			Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Processes/ Time basis	Status as on 31.12.2007
			Non-Plan	Plan Budget	Comp IEBR				
						630 Glass. Preliminary runs for fabrication of RG 630 Glass	sensing camera		Transferred Arc Plasma Reactor assembly to generate nanomaterials @ 250 gm/hr (under grant-in-aid project) is expected to take place in March 2008.
						Preliminary synthesis of Polymer-$LiMnO_2$/ $LiMn_2O_4$ nanocomposite for battery and other applications. Preliminary runs of synthesis of ZnON and ZnON – polymer nanocomposite and its physicochemical characterization.	Polymer Nanocomposite for Battery and other applications	March 2008	The reverse engineering data of Schott RG 630 Glass has been generated in order to get clues for the preparation of the desired optical filters. • Optimization of host glass composition at 50 gm level continued. Five melting operations attempted.
						Nanocomposite from polyethylene and polycarbonate	Process for nanocomposite preparation	March 2008	This activity has been postponed considering the time bound commitments of related sponsored / grant-in-aid projects
						Preparation of organometallic / inorganic precursors and process development of passivated free standing QDs of II-VI semiconductors and studies of their optical properties.	Air stable quantum dots of Semiconductors, mixed chalcogenides and sundry nano-sized powder.	March 2008	• This activity will be taken up in future if sponsored project of complimentary nature is granted.
		To nurture photonic technologies relevant in IT and optical communication as well as develop technologies in the broader application areas of Photonics				Establishment of infrastructure for the preparation of nanorefractory powders.	Experimental setup for preparation of nano-refractory powders	March 2008	The temperature dependence optical studies were conducted on CdSequantum dots.
						Establishment of hydrochemical processing of Gallium	Facilities for purification handling, testing and packaging of 7N Gallium at 2 Kg batch level.	March 2008	Quantum dots of CdSe were characterized by XRD and particle size distribution profile. The particle diameter in the range of 2-8 nm was estimated from XRD with absorption bands at about 450 nm.
						Design and fabrication of Vacuum Distillation and zone	Fabrication of important process systems for the purification of zinc.	March 2008	Full characterization of organically doped TiO_2 nano-particles was completed

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Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2007-08 (Rs. in crore)			Quantifiable Deliverables/ Physical Outputs	Projected Outcomes	Processes/ Time basis	Status as on 31.12.2007
			Non-Plan	Plan Budget	Comp IEBR				
						melting system			
						Design and fabrication of crystal growth & zone refining system and trial run	Process equipment for purification of Bismuth.	March 2008	• Indenting process of Sodium Flame Encapsulation system is under progress. Vacuum Oven procured.
						Study of geletion for optimum characteristics of RF aerogels.	To freeze the density of RF aerogels Establishment of characterisation facilities	March 2008 March 2008	• Acid sub-boiling distillation system procured and installed. • Horizontal zone refining system indented.
						Procurement of ICP-OES and installation	4 numbers of miniature thick film sensors from nanosized powders	March 2008	• Purchase Order being released for High Vacuum refining system.
						Compositions for temperature and humidity sensors Piezoelectric composition of microactuator 25 Nos of low K PTFE composites Composition for Zn-Sn-O and Cd-Sn-O	Microactuator of :PZT film; Thickness -0.25 to 1.0 µm; Displacement – 10 µm at voltages ≤ 50 V Modelling & fabrication of nanoporous ceramic / micro bubles filled PTFE composites 4 numbers of miniature thin film TCOs	March 2008 March 2008 March 2008	• The distillation system was tested and preliminary experiments conducted on Zinc. • Zone refiner system indented and Purchase Order placed for Crystallization Furnace and Glove Box. • RF and Carbon aerogels and the effect of R/C on aerogel properties are being studied. • Procurement of equipment is under progress. • Evaluated properties of NTC compositions suitable for thermal sensor applications. • Piezoelectric characterization of some novel material compositions have been completed. • Project deferred due to paucity of funds. • Sintering studies of $ZnO-SnO_2$ powder are under progress. $CdO-SnO_2$ composition preparation initiated.
5.	**Electronics in Health and Telemedicine**	To promote development of medical electronic		18.00		• Installation and commissioning of 6 MV medical linear accelerator	Indigenous production of medical electronic equipment, rehabilitation devices and Telemedicine Systems	• By March 2008 fabrication	One 6 MV linac machine has been installed at RCC, Adyar, Chennai .

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			Non-Plan	Plan Budget	Comp IEBR				
		equipment, rehabilitation device and Telemedicine systems.				for cancer treatment. • Continuation of activities to set up facilities for fabrication of linac tube. • Initiation of new techno-logy development projects in the area of Medical Electronics, rehabilitation and Telemedicine	to reduce the cost of the health care and empowerment of physically disabled.	of one 6 MV Linac machine will be completed. Construction of radiation bay - March 2008 Initiate process for construction of laboratory - March,2008 December 2007	Construction activities are under -way as per schedule Proposal for deployment of 6 MV integrated oncology system-Phase-II and Design and development of 2.6 MW S-band tunable pulse magnetron etc have been submitted to competent Authority for approval.
6.	Technology Development for Indian Languages		--	11.00	--	**Launch of Indian language Software/ Tools –** Free-to-use software tools such as Fonts , text-editor, spell-checker , Morph Analyzer , Dictionaries, Key-board drivers and messaging systems **Specialized Manpower Development in Language Technology -** Masters level ~ 50 & PG Diploma Level ~ 50) in domains of Knowledge Engg./ Computational Linguistics	Proliferation benefits of ICT to masses Availability of trained manpower for product development and research in Language computing	Bengali and Gujarati - June 2007 remaining 10 official Indian Languages - March 2008 1st batch of trained manpower - July 2007	CDROM's containing Software tools & fonts for Bengali and Gujarati are ready for release. The software tools & fonts for remaining 10 official Indian languages are being developed /consolidated. Masters Programme in Computational Linguistics /knowledge engineering is running at 3 institutions namely IIIT Hyderabad, Anna University, Chennai and Utkal University, Bhubaneshwar. PG Diploma programme in Language Technologies has been initiated at 3 institutions namely C-DAC Thiruvananthapuram, C-DAC, Kolkata and BIT Mesra, Ranchi.

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						Open-Type fonts in Indian Languages – 286 Open-type fonts in 11 Indian Languages	Proliferation of Indian Language Open Type fonts and use of Indian Languages on web.	April 2007	Under this initiative 286 Open Type fonts have been developed. The "Sakal-Bharati" font is under development and nearing completion.
						English to Indian Languages Machine Translation System - English-Hindi, English-Marathi, English-Bengali, English-Oriya, English-Tamil and English-Urdu.	The system will be useful for the general public at large and the State & central Government offices.	Alpha version - August 2007 Beta version - March 2008	Alpha version of the system is expected to be ready by March 2008.
						Cross Lingual Information Access System			
						Handwriting Recognition system for Devanagari, Kannada, Tamil, Malayalam, and Telugu scripts		March 2008 March 2008	Alpha version of the system is expected to be ready by March 2008. Alpha version of the system is expected to be ready by March 2008.
						Indian Languages to Indian Languages Machine Translation System – Tamil-Hindi, Telugu- Hindi, Marathi-Hindi, Bengali-Hindi, Urdu-Hindi, Kannada-Hindi, Punjabi-Hindi, Tamil-Telugu, Malayalam-Tamil.		March 2008	Alpha version of the system is expected to be ready by March 2008.
						Printed Text OCR for Indian Languages Bangla, Devanagari, Malayalam, Gujarati, Telugu, Tamil, Oriya, Tibetan/Nepali, Gurmukhi, Kannada		March 2008	Alpha version of the system is expected to be ready by March 2008.
						National Localization Research Centres	The standards, resources, technologies will be show-cased for the users and developers	To be initiated in September	Project "National Localization Research Centre" is expected to be initiated in March 2008.

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						Centres for Indian Language Technology & Resources (CILTR) Phonetic Engine for Indian Languages	For development of the speech recognition system. E-Gov and E-rural solutions in Indian languages	2007 March 2008	Project on Development of Phonetic engine for Hindi and Telugu languages has been initiated. Alpha version of the project is expected to be ready April 2008.
						Adequate intonated Text-to-speech Synthesis system in Nepali	All the Indian languages will be assigned the IPA Code	March 2008	Project on Development of Text to Speech (TTS) for Nepali language has been initiated. Alpha version of the project is expected to be ready by April 2008.
						Standardization of IPA symbols for all official Indian Languages (IPA-IL) with example sound		December 2007	Project on International Phonetic Alphabet (IPA) representation for three Indian languages namely Hindi, Bengali and Assamese has been initiated. Draft of IPA for Hindi, Bengali & Assamese languages is expected to be ready by June 2008.
7.	IT for Masses (Gender, SC/ST)	Upliftment of Women folk and SC/ST	--	9.00	--	To conceive and formulate few projects for development of Women, SC/ST sector.		At least 2 projects – March 2008	6 projects were initiated. Capacity Building for Upliftment of SC/STs in Kerala Capacity Building for Development of Girls in Chhattisgarh ICT tools for SC children in 15 Schools in West Bengal Tribal Women as the Change Agent using ICT as an enabler Creation of Infrastructure facilities in 10 Schools on pilot basis in Rajasthan State Empowerment of Women rural youth through ICT for Sustainable self Employment-Government of Mizoram First PRSG meeting have been done for all the six projects. Benefit for Women, SC and ST will occur at the end of the project.

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8.	Media Lab. Asia	To leverage information and communication technologies and other advanced technologies for the benefit of the common man.		10.00			Development of technologies, applications and deployment of models in the thrust areas of Media Lab Asia, vz. livelihoods, education, healthcare and rural connectivity (application specific)	On going	Development of Technologies/Products/ Services and their deployment is being carried out for the benefit of the common man in the identified thrust areas. Sector wise status is given in following paragraphs.
						Healthcare Deployment of projects in Rural Tele-Medicine, Health management information and mobile telemedicine		On going	Development and Pilot implementation of resource shared rural health information management System: The core objective of the project is to develop a resources sharing, Rural Health Management & Information system using ICT and demonstrate the working of such a network in a Tirur Taluk of Mallapuram, Kerala. The PC based application has been developed and development of handheld based HIMS is in progress. Development and Pilot implementation of resource healthcare delivery system using telemedicine at Malappuram, Kerala: The integrated testing of telemedicine software has been done and telemedicine room preparation at six hospitals in kerala as well as procurement of the equipments for the Nodal centers is in progress. Design and Development of low cost mobile telemedicine system: The objective of the project is to set up a mobile telemedicine facility, at Cherthala - Alappuzha district of Kerala. The system design of the mobile van has been done and medical equipments have been identified. Development of low cost feature rich telemedicine terminal: The objective of the project is to design, develop and engineer low cost, feature-rich telemedicine terminal.

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									The hardware design of the telemedicine terminal has been done and integration of hardware-software is in progress. Digital Health at Every Doorstep–using integrated High Bandwidth wireless Communication Networks: The objective of the project is to develop affordable biomedical devices and test deploy these devices in a WiFi wireless network for providing rural medical services using a mobile telemedicine vehicle. The development of telemedicine software and interface for biomedical equipments has been done. The test deployment of the mobile telemedicine van at Ettimadai, Kerala is in progress. Design and Development of Adaptive & Automatic Insulin Pump: The primary goal of the project is to design and development of a biosensor for estimating blood glucose levels as well as next-generation techniques for infusion of drugs and medication to patients. The design of insulin pump and biosensor for blood glucose measurement has been done and the development of the same is in progress. Sehat Saathi- Portable Model of Primary Healthcare Delivery: Sehat Saathi is a rural telemedicine system that can be used to extend medical care to patients in the remote parts of the country. The field testing of ophthalmology module of Sehat Saathi has been done. An agreement has been signed with one of the Industrial organizations for Transfer the technology of Sehat Saathi (Ophthalmology module) system. ICT in Classrooms in Rural Schools - The Teachers of the Govt. Schools including Kendriya Vidyalaya and Navodaya Vidyalaya in rural areas of the state of Andhra Pradesh on Content creation using open source tools.
						Education Development of Content in Education in Indian languages, Virtual Labs, Content for Vocational Subjects, ICT in Class room, training of persons in remote area.		On going	

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									- The project at Mizoram & Karnataka is covering the subjects of Science and for classes IV-VII using teacher centric software models. Teachers in 15 schools are using these models for last more than one year. Installation of software & teachers training in 40 rural schools in the state of Mizoram has been completed. In another project, out of the 8 districts in Mizoram IT training is being carried out in 5 districts. Over 300 students have been trained for CCCA (Certificate Course in Computer Applications) for School children and DOEACC 'O' Level. Development of Virtual Labs - 22 Virtual Demo Experiments in physics for class 5-8 have been completed. - Development of Virtual Lab for Life Science Experiments for higher secondary Education. Software Requirement Specification has been developed. The work on portal has also started with experiments uploaded. - Design, Development & Deployment of Mobile & Internet Based Math Prep-Guide Application. Software Requirement Specification has been developed with sample content uploaded on the portal and mobile device. - The development on Multimedia Based Pre Primary Teachers Resource kit for English & Hindi has started with Software Requirement Specification developed and content sourced from various agencies and vetted has been put on the portal. Use of ICT in vocational education and Training

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						Empowerment of the Disabled Use of ICT through Edusat connectivity for special edu. Development & deployment of software and assistive devices for various kinds of disability Deployment of systems developed under DIT grant in all Govt. aided special schools.		On going	- The final reports on Agriculture and school education sector are available. The recommendations and report is under finalization for the Tourism & Hospitality sector. - The background papers on Technical/Engineering, Artisans/Craftsmen/cottage industries, healthcare and Retail are ready. - Workshops held – ICT for vocational education - workshops on agriculture,school education, Tourism & Hospitality have been held at MANAGE, Hyderabad ,IGNOU, New Delhi and NITHM, Hyderabad respectively. - Workshop on Media & IT is scheduled on 22-23 January 2008 in collaboration with CEC-UGC. - Satellite uplink and studio has been setup at RCI premises. The DRS facility at 220 centers has been installed and the regular live interactive tele-conferencing program has started from 5th October. Expression of Interest has been invited from interested organizations for large scale deployment and commercialization of Sanyog, Sanyog has received National Award as best adaptation to cost effective technology for persons with disabilities Shruti and Vaani under Public-Private Partnership (PPP) model including requirement enhancement. Evaluation of applications is under process. - Project to develop "ICT enabled Integrated Assessment Tool, for Mentally Retarded Children" has been taken up in collaboration with C-DAC, Thiruvananthapuram. The trail run of the setelite uplink is going on and the studio will be inauguraeted in due course.

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						Village Livelihood Generation Engagement of a consultancy organisation / consultant to prepare a plan for country wide deployment ICT based agri-services with business model & market courage. Deployment of ICT based agri-services. Design & deployment of rural BPOs & study of their impact in the village. Development & pilot deployment of wireless sensor networks for real time monitoring of the climatological conditions for precision agriculture. Development of web ready weather information system Preparation of DPR (Detail Project Report) for ICT enabled rural crafts & arts with national seminars. Development of rural skills upgradation programmes. Development of CAD based design tools for village artisans & craftsmen and weavers **Rural Connectivity**		On going	- Deployment work of "Shruti-Drishti" – system developed under DIT grant has been taken up in collaboration with C-DAC Pune and Webel Mediatronics Limited. - A consulting agency has been engaged. The draft DPR has been submitted. - Test pilot projects have been taken up under integrated agri services programme. Pilot deployment have been taken up with NGOs & Industry in Andhra Pradesh - Design & development of wireless devices is complete & sensors to be used with wireless device have been identified & procured. - The Project is under process. - The project is under progress. A consultant has been engaged & discussions has been started with other organizations and industries like NIFT, TCNS etc. - The Gamin Gyan Kendra project has been taken up to upgrade the rural skills. Multimedia content for income generation in rural areas is in process, contents on Medicinal Plants have been developed, content on artisan activities, modules for Agriculture / Horticulture, Banarsi Sari and Hygiene Awareness are under progress.

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						Deployment of community radio network for agriculture information dissemination & awareness programmes on healthcare, education & livelihood generation. Satellite/SIT based broad band wireless connectivity deployment for services on health care, education & livelihood generation -Deployment of WI-fi / Wi-Max networks for healthcare, education & livelihood generation. Mass awareness of IT Technologies			- Links have been established with 5 agri-universities. Licenses for 4 CRS station have been received. 200 hrs of content has been developed. Studio infrastructure at Narendra Dev University of Agriculture & Technology, Faizabad is complete. - Under the project "ICT based Distance Training Facility using Edusat for Special Schools Educators and Other Rehabilitation Professionals", a teaching end has been commissioned at KVM Hospital, Cherthala, Allepey and link from teaching end to SIT (Satellite Interactive Terminal) channel have been tested. - A wireless network covering 32 village centers and affecting more than 1.5 lakh people in an area of more than 4000 sq. km has been successfully completed under Project Ashwini and is being used for providing services of Health Care education and livelihood generation. -Project Chetna has been taken up for empowering women and children. Setting up of 3 Community Radio Stations & 8 Community TV Centers are in progress.
9.	STQC	Establishment of Quality Assurance Infrastructure in the country to facilitate quality products & services at par with global standards and	4.30	50.00	--	Up gradation of Test & Calibration facilities to cater to state-of-the-art products with emerging technologies. Earn Rs. 45 Crore as revenue	State-of-art Test & Calibration facilities will be available to Industry to upgrade quality of the products. STQC will move towards	On continual basis March 2008	Rs 13.34 crore spent for up gradation test & calibration facilities. Rs.40 Crore

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		practices					self-sustenance		
						Establishing 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	March 2008	Two STQC officers participated as Guest Researcher at NIST for one month
						Common Criteria test laboratory will be set up at ERTL (E), Kolkata	More industries will utilize the Software test facilities to improve quality of their products.	March 2008	CC Lab established at Kolkata
						To provide services of software evaluation to various industry sector and the user industry.		March 2008	Project like MCA21 and Municipalities are over
						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 2008	Started
						Human Resource Development by conducting DOEACC 'O' & 'A' level courses in NE region.	Computer education to weaker/backward sections.	On continual basis.	In progress
10	**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 - Creation of manpower & knowledge sharing in bio-IT	Park Infrastructure Development	It is difficult to presume the project with the short listed bidden. The scheme is being reviewed.
11	e-Governance	The Objective of e-Governance in broader terms is to make all Govt. services accessible to the common man in his locality. The emphasis has been		800.00		**Establishment of SWAN** To provide 2 Mbps data connectivity up to Block level in all States /UTs in phases. As Part of the ongoing Scheme both leased line and wireless based network would be created across the country.	Phase wise implementation of network in 29 States & 6 UTs expected.	State Government, would leverage the SWAN as a core network infrastructure progressively to	Till date individual SWAN proposals have been received, considered and approved for 32 States/Union Territories. Implementation in progress : Assam, Bihar, Chandigarh, Delhi, Haryana, HP, Jharkhand, WB, Kerala, Gujarat, UP, Manipur, Sikkim, Tamil

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		to ensure: Integrated & enhanced access to government services Clearly defined service levels Services at the doorstep with substantial rural outreach Increased efficiency Enhanced transparency Improved reliability Affordable cost Approval of Government has been obtained for the vision, implementation strategy, key Component and Programme Management structure for the National e-Governance Plan. The main features are: 1. Centralised concept - Decentralised implementation 2. Twenty Seven Mission Mode Projects spread				Implementation activities for SWAN for all 29 States and 6 UTs have been initiated. Facility will be in place either partly or wholly for atleast 15 States/UTs. **State Data Centres** State Data Centre has been identified as one of the important element of the core infrastructure for supporting e-Governance initiatives of NeGP. Under NeGP, it is proposed to create State Data Centres for the States to consolidate infrastructure, services and applications to provide efficient electronic delivery of G2G, G2C and G2B services. It is proposed to set up Data Centres across 35 different States/UTs in the country during the 11th Plan. **Common Service Centres**	Secure and reliable data Repository sharable across various applications. 20 Data Centres shall be set up / operationalised by March 2008.	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. To be completed by March 2008. Time targets will depend on proposals received and States preparedness.	Nadu, Tripura, Uttar Pradesh LoI issued : Maharashtra Punjab Financial Bid evaluation in progress : Uttarakhand, Karnataka Bid Process initiated : MP, Orrisa RFP/BoM under review & finalization Chattisgarh, Mizoram, Meghalaya, Nagaland, Puducherry, Rajasthan Proposal Review J&K, Lakshadweep, Dadra & Nagar Haveli, Daman & Diu and Arunachal Pradesh Proposal Preparation Andhra Pradesh Opted out of SWAN Scheme Andaman & Nicobar Islands, Goa Final cabinet note for CCEA for the SDC Scheme has been prepared & being sent for approval. The revised estimates for SDC scheme are now Rs 1623.20 Crores. Cabinet approval expected by Jan'08.

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		across Centre, State & local Govt. level. 3. One lakh Common Service Centres for 6 lakh villages. 4. Optic fibre connectivity up to block level. 5. Effective public – private partnership for long-term sustainability. For well-defined project implementation mechanism, a body serviced by DIT and chaired by PM for providing thrust & drive and an Apex Committee under chairmanship of Cabinet Secretary to oversee implementation and provide strategic directions have been set up. A common platform is being created for the integrated delivery services. This shared platform includes high-speed networks for Data				(CSCs) Setting up of ICT based Kiosks (1 Lakh) at village level across the country in phases. e-District e-district as a concept proposes integrated and seamless delivery of citizen services by district administration through automation of workflow , backend digitization, integration and process redesign across participating departments such as Revenue, Food, Basic Education, Social Welfare, Minorities, Forests, Panchayati Raj, Rural Development, Agriculture, Election, Home, Minor Irrigation, Passport, Irrigation, Excise, Finance & Treasuries, Family Welfare, Horticulture, Cooperatives, Transport,	• Sanction the CSCs proposals for all the remaining 14 States and 6 UTs in the country. Complete the process of establishment of 100,000+ CSCs in the country 1.Implementation of e-District Projects already sanctioned in UP and Assam 2.Obtain financial approvals for the e District Mission Mode Project 3. Conduct pilot in 2-3 districts of 4-5 States.	By 2008 By June 2008 By Dec. 2007 By Sept. 2008	So far six States have signed MSAs (Jharkhand, West Bengal, Bihar, Haryana, Tripura and Gujarat) Assam, Madhya Pradesh, Tamil Nadu and Andhra Pradesh have selected the SCAs.. So far twelve States have completed the SCA selection process Pre-bid meeting held for selection of potential SCA in Manipur Pre-qualification bid evaluation being carried out in Maharashtra and Orissa CSC roll out is being carried out in Jharkhand, West Bengal and Haryana where around 1100 CSCs have been established. Rollout has been initiated in Tripura and Bihar Project under implementation in UP and Assam SFC Proposal for taking up e District in Tamil Nadu and Bihar prepared. To be considered by SFC in January 2008.

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		connectivity, Data Centres Common Access Points all over the country (including the remotest areas) and laying down standards that enable and ensure integration. The DIT has set up a professional Programme Management Unit (PMU) for the NeGP to undertake programme monitoring and strategic planning. The PMU has commenced functioning in Department of Information Technology. The PMU will also assist individual Departments in conceptualization and formulation of their projects wherever required.				Health, Land Records, and Registration etc. for providing services to the citizens.

Unique ID

To create Common Care Data Base using the existing electoral Data to create Unique ID for all residents.

It would curtail requirement for physical verification and help better targeting of Government Schemes. | Complete first phase of Unique ID Project already sanctioned.

Complete the work on process studies. Obtain financial sanctions for Phase-2 of UID Project & initiate implementation of Phase-2. | By December 2007

Pre-appraisal By April 2007 | Electoral Roll data migrated onto a single UID database. Recommendations relating to UID numbering format, appropriate authority for UID administration, & Outlining generic processes for administration of UID approved by process committee.

Detailed proposal for creation of the UID authority submitted to Planning Commission, has received Commission's "in principle" support. EFC note is being prepared, for seeking administrative and financial approval from the competent authority.

1st meeting of EGOM held on 27th November 2007. |
| | | | | | | **E Bharat**
The proposed World Bank support (called e-Bharat project) is expected to finance an agreed-upon subset of those NeGP activities (MMPs and program Components) which are most directly related to the objectives of the Bank's Country Assistance Strategy (CAS), after these have received Cabinet approval. On this basis, the project may include a majority of State and Integrated MMPs and all program components. | Ensure improved service levels under the selected MMP, accessible to the common man in his locality, through an integrated service delivery mechanism at affordable costs.

Create contemporary infrastructure for the selected MMPs that provides transparent and effective interaction between the | Appraisal by June 2007

Final sanction By Sept.2007 | Bank's pre-appraisal mission took place during March 2007.

An appraisal mission is expected during Feb – March 08.

Work on preparation for e Bharat appraisal ongoing. |

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						Following the broad criteria to ensure achievement of CAS objectives and in view of large number of potential subproject proposals, the Bank has indicated the under noted MMPs to be most important for its funding, subject to the caveat of Cabinet approval: Gram Panchayats; Agriculture; Municipalities; Employment Exchange; Land Records & Property Registration; E-Districts; Commercial Taxes, and E-Government Procurement.	Government and Common man (in the rural and urban setting) & businesses ensuring economic growth.		
						Capacity Building Institutional Capacity Building in 28 States and 7 UTs	- Every State/UTs will have their own customized State NeGP program	April 2007	C.B. Scheme has been submitted for CCEA approval and meeting scheduled for 10th January 08.
						Setting up of CB management Cell			
						Creation of SeMT for various States/UTs	-CB will provide technical support to Policy Making Body for plan out State NeGP program	June 2007	
						Preparation of Training Guidelines			
						Orientation/Training of SeMT & Policy Makers in Phases	- Enhancing internal technical competency for implementation State NeGP and training program		
						Preparation of DPR by Sates/UTS **Horizontal Transfer of Successful e-Governance initiatives**		July 2007	

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						1) 11 projects in Land Record, Property Regn. and Transport are ongoing which would be completed in FY 2007-08 **2)** Rolling out of successful pilot projects in Land Record, Property Regn. and Transport is being implemented in the entire State on PPP model. **Standards for e-Governance** ▪ Development and enhancement of Standards in identified areas of concern ▪ Development of standards /guidelines in the new areas ▪ Aggradations & conformance of standards ▪ Publishing of standards/ guidelines on the website	Capturing best practices of successful e-Governance projects and replicating in other State. This will ensure dissemination of knowledge from one successful implemented to many other places Ensure Interoperability, integration & seamless data sharing of e-Governance applications	Continuing activity Continuing activity April 2007 onwards– Release of standards/ guidelines in Interoperability, Data & Metadata, Security, Localization, Quality & other new areas.	4 projects in Land Record and 3projects in Registration have been completed and 1 more project in Land Registration initiated DIT has received valuable inputs and suggestions on the draft policy, which was circulated to all the eminent organizations in the country before government takes a final decision on the Open Standards Policy. Two rounds of meetings held on 22nd & 25th Oct'07 with DG (NIC), AS (eGov), NIC, STQC & EG PMU team to apprise Secretary DIT on the follow up actions taken w.r.t the PRSG meeting on Standards held on 26th July 2007 and review the existing institutional mechanism for evolving E-Governance Standards. A meeting to discuss the draft National Policy on Open Standards was held on 22nd Oct'07 under the Chairmanship of Additional Secretary, DIT with all the eminent organizations in the country for their valuable inputs and suggestions before government takes a final decision. Process for selection of agency for detailing the EA framework initiated by NIC. 1st Working Group meeting of "Legal Enablement of ICT Systems" was held under the Chairmanship of Justice B K Somashekara in Bangalore

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						India Portal ▪ Release and promotion of 2nd version of Portal ▪ Maintenance & enhancement of the portal	Seamless search of govt. information available at the central & state levels and will facilitate Single sign-on to various govt. services & information in turn making citizen interface much simpler & easy.	April 2007 onwards	A closed group meeting was held on 13th Nov'07 at Mumbai to revise the draft National Policy on Open Standards based on the deliberations held on 22nd Oct'07. 2 Domain committees constituted by DIT with the representation of line ministry for the Metadata and Data Standards for Person Identification and Codification of Land Region. A follow up review meeting was taken by Secretary DIT with NIC on 18th Dec'07 to review the actionable items that emerged during the 22nd & 25th Oct'07 meetings. The Chairman of the Specialist Committee on Open Standards resubmitted the draft National Policy on Open Standards DIT in Dec'07. Generic Public Information Framework (GPIF) has been prepared and a sub group has been constituted to review and strengthen the GPIF. Two meeting of this Sub Group has been held to work out the modalities, review and strengthen the framework. The Guidelines for Government Web sites has been revised based on the recommendations of the sub group. The Content Framework for the National Portal has been formulated The first meeting of the Jury on the Awards for the National Portal was conducted to freeze the categories of awards and the selection criteria for each category. **Content Addition** Business Section - A new module has been launched on the Industries and Services of India, the main channels that form the backbone of any economy. **Visitor Summary** - A monthly hit analysis report is now available on the portal (updated every month) so that users know about the

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						National e-Governance Service Delivery Gateway (NSDG) ▪ Functional Gateway up and running ▪ Operations & Maintenance for 5 years	This soft infrastructure is based on standards will facilitate integration, interoperability & data sharing amongst various stakeholders.	Sept 2007 onwards	popularity of the portal. NPI's Participation in ICEGOV 2007- National Portal Team (NIC HQ) presented a paper in the ICEGOV 2007 on 10-13 Dec'2007 in Macao. **Content Contribution** **On-line Services** – 303 new services offered by different State Governments have been added in 2007-08 **Documents** – 1771 new documents have been contributed. **Forms** – 1654 forms published on the portal **Schemes** – 517 schemes have been added by the Ministries/States. **Rules/ACTS** – About 372 new rules and 767 Acts of different States have been contributed to the National Portal. **Government Contacts** – The Government Contact Directory on the portal has been enriched with 227 new contacts of various officials of different state and central ministries and departments. **Announcements** – With 336 new Announcements, the section gives vital updates by the various government ministries and departments. **Directory of Important Web Links** – 967 new websites have been added to the portal in the year 2007. DIT, NeGP PMU, NISG and STQC team had a review meeting on the Bill of Material for NSDG infrastructure. A meeting of DIT, NeGP PMU, CDAC and STQC team was held on 18th Oct'07 with DG (NIC) and NIC Data Centre, Security & Network Team on the finalizing the hosting requirements NSDG infrastructure in the NIC data center. Presentations on the Hardware and software solutions offered by all the bidders for NSDG Infrastructure was held on the 13th Nov07 at CDAC Mumbai.

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						Conformance Assessment Centre Creation of national infrastructure (region-wise) in terms of skills, knowledge and experience with technical and legal expertise in the areas of Information Security, Software Quality, IT Service Quality, Legal and ethical issues of web sites etc. **R&D In e-Governance** To start with research activities in various areas where R&D will bring direct benefit would be carried out Various proposals would be build to carry out pilot **Assessment** To carry out: **i)** e-readiness assessment of	▪ Will help to scale up e-Gov implementation in India and generate confidence ▪ Lab Accreditation of Bangalore, Chennai & Kolkata centres ▪ Conformity Assessment framework ▪ Applied R&D which would enable bringing innovative solutions which are cost-effective for various e-Governance applications under NeGP	April'07 onwards April'07 Continuing activity	Discussions with TCS held on 20th Nov'07 for the Interoperability and Integration of NSDG and MCA21. A meeting of CDAC team was held in NIC, Hyderabad with regard to NSDG Infrastructure Primary Data Centre on 22nd Nov'07 The Technical & Commercial Bid evaluation (including the clarifications sought from the vendors) for NSDG infrastructure procurement has been undertaken by the implementing agency. Meeting was taken by AS (eGovernance) with CDAC & STQC for the decision on the deployment of NSDG DR setup in NIC Delhi Data Centre. Meeting was held in CDAC Mumbai on 28th Dec'07 with the Financial Technology consultants for the finalization of the ISMS scope for the NSDG project. Draft Conformance Assessment Framework (CAF) has been prepared. Draft "Website Quality Certification Scheme" based on the International best practices has been prepared. This scheme is applicable to both Government & Private websites and portals. STQC IT Centre at Kolkatta and Bangalore have already submitted application with NABL for the accreditation of its software testing facilities as per the ISO/IEC 17025:2005; General requirements for the competence of testing and calibration laboratories. Indian language computing initiative Bengali and Gujrati CDROM is ready for release.

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						the States/UTs **ii)** Impact assessment of the various e-governance projects implemented both at the Central and State Level against the stated and implied objectives **iii)** Listing of e-Governance/ICT Development Projects	The findings of the summary assessment of the various Central and State Level e-Governance projects shall be compiled and shared.	It is expected to complete assessment of around 40 National level and State level projects by Sept.2007	**i) e-Readiness** E Readiness assessment for 2006 is in progress and report expected by January 2008. **ii)Impact Assessment** Impact Assessment of 40 projects is under progress and likely to be completed by Feb'08.
						Awareness & Communication National Awareness Strategy Media plan Communication Needs Assessment	Will bring overall awareness about the availability of the general information of use to common man.	March 2008	Concepts for 3 films approved. NeGP logo approved by Hon'ble Minister MCIT. Advertising Agency for empanelment for NeGP Umbrella Campaign approved by Hon'ble Minister MCIT
						Community Information Centres (CIC) 555 CICs at Block level in the 8 North Eastern States providing services			Workshops held in Haryana, Jharkhand, Uttarakhand and West Bengal.
						135 CICs at Block level in Jammu & Kashmir providing services	ICT Connectivity and citizen interface for IT enabled e-government services and training.	March 2008	The established CICs in North East, Jammu & Kashmir, Andaman Nicobar and Lakshadweep Islands are continuing to provide citizen-centric services and training.
						41 CICs in Schools of Andaman & Nicobar and 30 CICs in schools of Lakshadweep Islands	Faster & Reliable Communication, Timely Access to School Results & Election Results. ICT awareness creation and Employment Generation. Better access to citizens	March 2008 March 2008	The 'Gap bridging arrangement project to facilitate the merger of 555 CICs of North East into CSCs', has been initiated with total outlay of Rs 24.72 cr over a period of two years. An amount of Rs 11.19 cr has been released for the States of Assam, Meghalaya, Sikkim,

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						providing services	to various information including e-mail, internet access, agri-market information, hospital bookings, examination results, Govt. schemes, public grievances, local developments etc.		Arunachal Pradesh, Manipur, Mizoram and Nagaland.
12	**Cyber Security including CERT-In, IT Act 2000, CCA and CRAT**	Creation, establishment and operation of Cyber Security Assurance Framework.

Creation of National Cyber Alert System for Rapid identification & response to security incidents. | -- | 33.00 | -- | Up-dation of Legal framework structure for formulation, analyzing & enforcement of IT Act 2000.

Mitigation and prevention of cyber crimes in the country. | A legal framework, which will instill confidence of the users and investors in the area of Information Technology in the country will be in place.

Enhanced web security, effective control of e-commerce fraudulent activities. Containing the effects of cyber security incidents and ensuring business continuity. Latest virus definitions will help implementing proactive measures.

Enabling users to proactively implement cyber security measures to reduce the chances of incidents/attacks. | | • The Information Technology (Amendment) Bill, 2006 was introduced in the Parliament in December 2006, and was referred to the Parliamentary Standing Committee on IT. The Committee has given its recommendations which are being examined.
• Information security policy for Govt. & critical sectors is in place. It has been circulated to all Ministries/Deptts. in Central Govt. and all State Govts./UTs for further dissemination.
• Guidelines/Best practices for secure computing to help computer administrators, custodians, users and operators in Govt. Deptts./Organisations have been prepared.
• The existing panel of IT Security auditors is expanded to include 14 more auditors with total no. of 76.
• Database of Points-of-Contacts in Govt. & Chief Information Security Officers (CISO) in critical sectors created to enable quick communication.
• Draft Crisis Management Plan has been prepared and is under circulation.
• Common Criteria project for security product testing and certification is under implementation.
• Project for "Threat Assessment and Attack Detection Solution at ISP Level" has been initiated.
• Security incident response 1230 security incidents resolved. Vulnerability database is created and |

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		Promote use of electronic/digital signatures for e-governance and e-commerce applications				Promotion of use of Electronic/ Digital Signature Certificates.	Enhanced use of electronic/ digital signatures for e-governance, e-commerce, banking application etc.	On-going	maintained. • 44 Security alert/ incident notes issued. • 66 Security Advisories issued. • 163 Security Vulnerability notes issued. • 2 White Papers published. • 5863 Indian website defacements tracked. Advise for prevention suggested. • 1805 open proxy servers in India were tracked and got shutdown. • Around 25915 Bot infected systems were tracked in India. 1. Survey carried out by CCA to determine the extent of usage of Digital Signatures in the country and to come up with a SWOT analysis so as to further enhance deployment and use of Digital Signatures. The survey addressed Certifying Authorities, Service Providers and users. Follow up has been initiated in respect of the findings and recommendations as a result of this survey. 2. Discussions were held with individual Certifying Authorities. Following the survey two meetings of the India PKI Forum were held for finalizing Articles of Associations and to discuss issues and challenges pointed out as a result of the survey referred to in 1 above. 3. Continued interaction with Ministry of Company Affairs, MCA 21 project in respect of Digitally signed e-filing. 4. Discussions were held for enabling Digital Signatures for e-Passport. A solution to integrate Digital Signature was suggested with Ministry of External Affairs for ensuring that Digital Signature integrated in e-passport under India PKI meets the requirements of International Civil Aviation Organisation (ICAO) 5. Course conducted for Air Force Headquarters in respect of use of Digital Signatures under the IT Act 2000. Courses have been planned to be held for judiciary for which logistics are being worked out

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									with all High Courts in the country. Courses proposed to be held in Lucknow in February 2008 and Kochy in March 2008. A proposal for Nation Wide PKI awareness and training was prepared to be implemented in 2008-2009.
									6. A proposal was made to Government for authenticating designation through Digital Signature Certificates.
									7. To promote international linkages in respect of Digital Signatures, steps were initiated for India to become a principal member of the Asia PKI Forum. Asia PKI Forum has been requested to hold the next working group meeting and international conference in India.
									8. Efforts are on to incorporate CCA's Root Certificate in Microsoft Internet Explorer browser for ease of establishment of trust. Subsequently other browsers would also be taken up.
						A base line for IT Security awareness and skill & competence development in cyber forensics.	Training facilities, modules and content development.		9.Initiated process for development of training material and Digital Signature tools which will be downloadable from CCA's website to ensure wide dissemination.
						Development /enhancement of skills and expertise in the area of cyber security research and development.	Development of indigenous cyber security solutions, Proof-of concept and prototype, and skilled manpower.	On-going	• A proposal "Cyber/Hi-Tech Crime Investigation and Training" has being recommended by the Working Group.
									• A Working Group has been constituted with experts from Govt., academic/R&D and user organisations to provide advisory support for implementation of cyber security R&D. The Working Group discussed objective measures related to the funding of cyber security programme activities. Ten proposals covering (i) "Design of Lightweight Key Agreement and Key Stream Generator Suitable for Use in Constrained Devices", (ii) "Development of Digital and Blind Signature Protocols using Elliptic Curve Crypto System", (iii) ""Design and

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		Training of Law Enforcement, Judiciary and other users.

Basic research, Technology demonstration and Proof-of concept and R&D test bed projects Thrust areas | | | | | | | Development of Malware Prevention System", (iv) "Design and Development of a hardware Based Network Intrusion Prevention System", (v) "Development of Secure Environment for Sensitive Information Transaction in Mobile Adhoc Networks", (vi) "Research and Development of Multi-Camera Algorithms for Security and Surveillence", (vii) Development of Web-Service based Security Management Framework for Critical Sector Information Infrastructure Protection", (viii) "Design and Development of Enterprise Forensic System, Advanced Forensics Tool and Setting up of Virtual Training facility at Resource Centre for Cyber Forensics", (ix) "Design of New Iris Recognition System for Personal Authentication with Orthogonal Polynomials" and (x) Development and Setting up Virtual Training Environment (VTE) Information Security Lab" have been considered by the Working Group. Six of these proposals have been recommended by the Working Group for approval and initiation. |
| | | To promote security awareness, Participation and information sharing. | | | | Encourage social engineering concepts and public participation | Will create necessary awareness and facilitate information sharing to deal with crisis situations. | | • Training for CIO's of critical Sectors- sector wise conducted
• 5 Domain specific workshops conducted
1. Survey carried out by CCA to determine the extent of usage of Digital Signatures in the country and to come up with a SWOT analysis so as to further enhance deployment and use of Digital Signatures. The survey addressed Certifying Authorities, Service Providers and users. Follow up has been initiated in respect of the findings and recommendations as a result of this survey.
2. Discussions were held with individual Certifying Authorities. Following the survey two meetings of the India PKI Forum were held for finalizing Articles of Associations and to discuss issues and challenges pointed out as a result of the |

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									survey referred to in 1 above. 3.Continued interaction with Ministry of Company Affairs, MCA 21 project in respect of Digitally signed e-filing. 4.Discussions were held for enabling Digital Signatures for e-Passport. A solution to integrate Digital Signature was suggested with Ministry of External Affairs for ensuring that Digital Signature integrated in e-passport under India PKI meets the requirements of International Civil Aviation Organisation (ICAO) 5.Course conducted for Air Force Headquarters in respect of use of Digital Signatures under the IT Act 2000. Courses have been planned to be held for judiciary for which logistics are being worked out with all High Courts in the country. Courses proposed to be held in Lucknow in February 2008 and Kochy in March 2008. A proposal for Nation Wide PKI awareness and training was prepared to be implemented in 2008-2009. 6.A proposal was made to Government for authenticating designation through Digital Signature Certificates. 7.To promote international linkages in respect of Digital Signatures, steps were initiated for India to become a principal member of the Asia PKI Forum. Asia PKI Forum has been requested to hold the next working group meeting and international conference in India. 8.Efforts are on to incorporate CCA's Root Certificate in Microsoft Internet Explorer browser for ease of establishment of trust. Subsequently other browsers would also be taken up. 9.Initiated process for development of training material and Digital Signature tools which will be downloadable from CCA's website to ensure wide dissemination.

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13	**Promotion of Electronics / IT Hardware Mfg.**	Promotion of Hardware Manufacturing in the country at Global level.		1.00		• Supporting the Electronics/IT Hardware industry associations for organizing/participation of the industry in National and International Exhibitions/ Events. • 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 2008	
14	**Manpower Development**	**e-learning**	--	43.00	--	Data Compression Techniques and its Application to E-Learning/ Education	To develop set of Compression Algorithms for images/videos	September 2007	The image and video compression modules have been developed. The project has been completed.
						Development of Interactive Learning material on Introduction to Animation and Multimedia	Finalisation of specification, Software / Hardware procurement & installation, Resource mobilisation, Content development	May 2007	Content is being modified in consultation with experts to make the material more attractive, contemporary and relevant.
						Content based Streaming and Real-Time-Regional Language Captioning of E-Learning Video Data	Development of content based compression algorithm	September 2007	Real life experiments on streaming and remaining sub-activities are Progressing.
						Quality Assurance Framework, Quality metrics, and prototype tool for evaluation and comparison of e-learning applications and training	Literature survey, enhancement of e-sikshak framework by collecting inputs for QAF project	March 2009	The metrics are being developed for Performance (response time, reliability), Security, Portability, Usability, Navigation Flexibility, Sequencing Flexibility & Standards Compliance. The relevant Open Source Tools have been identified.
						Open source content delivery tools	Web application source code in different packages,	November 2009	Activities, carried out include (a) Course expiry if course not accessed for a configurable period (b) French, Marathi,

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							documentation		Bangla, Urdu, Hindi user interface (c) Assignment submission module (d) Backup and restoration – improved interface and mechanism etc.
						Design and Development of e-learning contents for e-security solution developers	e-Learning Contents on e-security	October 2008	The curriculum for the 1st category i.e. students has been developed in consultation with identified experts. The project is at its initial stage of implementation. Preparation of rooms, labs and purchase of equipments etc. are under process. Syllabus revision is underway.
		Human Resource Development in the country in the area of Information Security.				Launching/continuation of Information Security Curriculum at B.Tech/ M.Tech/ Ph.D levels and train System Administrators; Installation/ commissioning of Information Security labs at RCs and PIs; Training faculty of Participating Institutes; Train Central and State Government Officers; and Awareness Programmes in the area of Information Security.	Generate qualified IT security professionals for Industry/ Govt. Human Resource Development and awareness in the area of Information Security. Secured environment for BPO, Commerce and governance	March 2010	Five RCs and thirty-four PIs have signed the MOU for implementing the project. The syllabus and the course structure for various courses at the levels of B. Tech., M. Tech., etc., have been prepared by leading academicians and made available to all the Resource Centres and Participating Institutes. The Resource Centres, Participating Institutes and other implementing agencies have taken action to launch various courses in the area of Information Security. Three Faculty Training Programmes for the PIs have been conducted. 1st phase of equipments have been procured and supplied by NICSI to the PIs for setting up of a Lab. The procurement of equipment for 2nd phase for the PIs and RCs is presently underway. 60 officers/ scientists/ engineers have undergone Master Trainers Programme at ISTM New Delhi; Indian Institute of Science, Bangalore and Carnegie Mellon University (CMU), USA. Short-term training programmes for the executives/officers of Government organisations are being orgainsed by the six Implementing Agencies. An Action Group for Awareness Programme was constituted under PRSG. Based on its recommendations the task of launching awareness programmes was assigned to CDAC Hyderabad.

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									The Action Group also gave various suggestions on implementation of the Awareness Programme by CDAC. CDAC Hyderabad has prepared sample awareness material and organized sample workshops for creating information security awareness among school children. Sample awareness kit for conducting ½ day workshop for schools has been prepared and distributed to PIs. An Academic Committee to look into various issues of ISEA project was constituted under PRSG. Various issues were referred to the Academic Committee and based on its recommendations action has been initiated for launching various activities. The task of LM Development has been assigned to IIT Madras. A one-day workshop of all RCs/ PIs to finalise the methodology and identification of various topics was conducted by IIT Madras. The 1st International Conference on Information Security is being organized by IISc. Bangalore. Scheme for Travel Fellowship for attending conferences, paper presentation, short-term courses, workshops, tutorials etc., has been launched by IISc., Bangalore. Scheme for Ph.D Fellowship support has been launched by IIT Madras. CDAC Delhi has been assigned the task of designing/ development of a website for ISEA Project and modular Learning Material Development for training of government officers. The prototype of the website is now ready which has been demonstrated to the RCs & PIs. A 1-day appraisal workshop to review all the academic activities of the ISEA Project was held at IIT Madras, which was attended by all the coordinators of RCs & PIs.
						Completion of the VLSI			

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		Human Resource Development in VLSI Design and Related Software				Design Lab establishment at 32 Institutions Four Instruction Enhancement Programmes (IEPs) for faculty of 25 Participating Institutions (PI) Conduct a Workshop involving International Guest Faculty Hosting of VLSI Design Resource Website Manpower generation in the area of VLSI Design • Setup new demonstration projects in different clusters of industries. • Set-up Common facility Center • Initiate R&D programme	Increased availability of Knowledge Centric Manpower in the VLSI Design to attract investment Enhancement of R&D culture in VLSI Domain.	July 2007 Mar 2008 Dec 2007 Dec 2007 July 2007	The project to be implement by STPI has been approved for extension for a further period of one year.
		Productivity and employment Generation					Help in Increased productivity in different sectors of economy	New demonstration projects in the different sector, common facility center	
		Implementation of Internationalized Domain Names (IDN)				Creation of Language Character & Variant Tables with language & implementation policy rule set for Domain Name registration in Tamil, Malayalam, Hindi, Marathi, Bangla, Assamese, Urdu & other Indian languages.	Hosting of larger number of local language websites, internet users, development of search engines in Indian languages	Launch of Hindi, Tamil and Malayalam during April – May 2007.	Creation of character table, variant table and language rule set for other Indian languages to be initiated. Project nearing completion.
		Quality of Service Nationwide Network Testbed				Establishment of architecture, bandwidth protocols best suited for assured Quality of Service (QoS) for Applications viz, Distance Education,Voice over IP and Videoconferencing	Establishment of a set of Standards, protocols for QoS assured networks for IP based applications and services namely,	QoS guaranteed network architecture established	

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		NIXI – Establishment of NIXI hubs				5 NIXI hubs will be established - to provide smaller ISPs connectivity an exchange points	Distance Education, Voice over IP and Videoconferencing	March 2008	All 5 hubs are being set up simultaneously and will be operational by the year end.
		Establishment of a National Internet Registry for India.				A National Internet Registry will be established in India by March 2008	Peering facility to all ISPs. Also IP traffic less clogged for the end users much faster Internet speeds		Establishment of a Scientific Society with members from all stakeholders under consideration.
		Governmental Advisory Committee (GAC) Secretariat Activities				The GAC Secretariat is established in DIT, India.	IP address allocations for India and the Asia Pacific Countries more responsive to demand	The activity will be initiated by April 2007 Hosting the ICANN meeting in December 2007 and IGF meeting in 2008 in India	The preparatory activities for hosting the two events are already underway.
		Connecting ERNET India with European Research network GEANT				To facilitate connectivity between the two region to support current and potential cooperative research activities for collaborative research networks with reputed academia and research institutions of other EU countries.	The GAC Secretariat would be principally involved with the functions of Secretariat. Collaborative research by scientists & experts in real-time R&D environment.	December 2007-08	45Mbps IPLC link between India and Europe is being upgraded to 622Mbps/1Gb link. DIT GOI is bearing half IPLC cost.
		Digital Library Initiatives				Digitizing and preserving books, manuscripts etc.	Strenthen Country's indentity by digitally preserving the national heritage and intellectual output	March 2008	Scanning center at Goa University - Scanned 3.17 Lakh pages

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15.	Headquarter	Secretariat & Bldg. Foreign Trade Exhibitions Others - Seminars/ Workshops	19.00 3.10 0.80 0.50	12.80	-	To meet running expenditure of the Secretariat and Plan Schemes CST re-imbursement of STPI units To organise exhibitions abroad for promotion of Trade To organise seminars/workshops for development of electronics in IT	To run office smoothly. Export promotion Trade promotion Development of electronics in IT		Eight National Seminars were supported on the subjects related to IT Industry.
16.	NIC	NIC provides wide range of E-Governance infrastructure and services in the country at various levels right from central government, state governments to district administrations in their initiatives towards providing Good Governance to the people.		320.00		**Cyber Security** Firewalls, IPS, IM software and Servers, Application Firewalls, Gateway security appliances **Certifying Authority** DSC in USB tokens Multiple Classes & Type of Certificates Minimum Replica of existing infrastructure **Strengthening of Existing District Centres to support "National Mission**	To secure NICNET Servers and Services Enhancement of CA services for promotion of e-governance Setting up of redundancy/ Fail-over infrastructure	Tender March 2008 December 2007 March 2008	Empanelment of vendors for Unified Threat Management (UTM) appliances in progress. Installation and implementation of the Intrusion Prevention System procured for 16 State Centres completed. Deployment of Application Firewalls (with redundancy) at NIC HQ IDC completed Application Security Audit and Vulnerability Assessment of servers. It is a continuous activity. USB tokens tender floated. Completed Completed (RA opened at NIC, Bangalore and BARC, Mumbai.)

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						Programmes" (NMPs) Strengthening selected districts.	To support National Mission Programmes & National efforts in bridging Disparities and Divides	Tender March 2008	Detailed feedback obtained from 300 NIC District Centres covering Existing setup, Existing Support from Central/ State Government to run the Centre, Role & responsibilities, Expectations under this scheme. Subsequently, different alternative modalities identified and Detailed Project Report (DPR) prepared
						Grassroots Informatics Development (GRID) Project Design, development and implementation of "Demand-Driven" Knowledge Portal facilitating "Value Chain" and "Citizen Centric" Mode	To focus on bridging various disparities and divides at grassroots level, through mainstreaming ICT.	December 2007	A website giving details about GRID Project is being created on DACNET.
						Capacity Building for entrepreneurial skills development	To adopt strategies for effective communication and public awareness, An ICT-triggered rural knowledge revolution	March 2008	Research Institutions of repute (on Grant-in-aid basis) proposed to undertake "System Development Research Studies" to identify both Digital Layers and Non-Digital.
						Computerisation of Land Records Product certification for 4 new states;	Application software product certification	July 2007	Work in progress. Documentation (SRS, UM, FDD) completed.
						Methodology for target states (10) regarding uniform coding ;	Uniform Coding scheme of various Land attributes in States with Dept of LR, GOI	September 2008	First anomaly report received.Usability testing in progress. Work completed. National level codes for land records finalized for 14 parameters. Location code dovetailing with Census Codes in progress.
						4 states which have already obtained quality certification would be subjected for security audit and hardening	Strengthening security of land records systems	January 2008	Audit reports for security received. Under examination

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						WEB based access to ROR for next 10 states	Websites for next 10 states	Feb 2008	Now, 10 states have put LRC data on the public domain.
						SMART Village Project Pilot Panchayat	To introduce and promote cost effective and appropriate ICT for use in rural areas	March 2008	Village Sambalpur in Chhattisgarh has been recommended by District Collector for the Project. A website on Smart Village is being created on DACNET. Research Institutions of repute (on Grant-in-aid basis) proposed to undertake "System Development Research Studies" to identify both Digital Layers and Non-Digital. Preparation of DPR is in progress.
						E-Governance Applications & Solutions Setting up of infrastructure for productisation	To establish Centre of Excellence in e-gov (applications & solutions) for redeployment of existing applications under new conditions.	March 2008	The infrastructure for setting up the productized applications has been initiated in Andaman and Sikkiim.
							To provide a platform for scaling up and replicating critical e-governance applications.	March 2008	IntraGOV framework Project Monitoring System e- Granthalaya have been productized for deployment in Ministries/Departments
						Natural Disaster Knowledge Management Network Programme Support to NDMA	To develop low cost ICT solutions for Disaster Management	Dec. 2007	As per the request of NDMA, efforts are in progress to implement the standard Office Automation packages. Software development using Open Source technologies is in progress.
						Horizontal Transfer of Information Technology Enabled System (ITES) Products			

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						Horizontal Transfer by enabling - localization of ITES Products; Capacity building for product ; services and support ; and Rollout.	To promote faster and cost effective adoption of ITES products, uniformity & quality in service across several organizations, easy integration of database at different levels.	March 2008	The Project Document preparation for software development using best practices standardization has been taken up.EOI prepared for Localization of IT products
						E-Governance Standards Development Programme Technical Standards; Data Standards in e-Governance domains ; and Localisation and Language technology areas	Establish the Centre for development of standards identified and to work on the key areas identified by the working groups.	March 2008	Preliminary discussions were held with higher educational Institution. Preparatory works were under process to establish the proposed consortium.
						Development of Multimedia Tele- conferencing facility. Multipoint Control Units at Hyderabad and other states	Decentralizing of Videoconferencing services from Hyderabad other states.	September 2007	Order for 11 Multipoint Controllers for various states are placed Order for 11 Multipoint Controllers for various states are placed
						New Equipment augmented in selected states and VC centers	Replenish/augment the hardware to enhance the service capabilities	Feb 2008	Equipment has been supplied and installed
						Automation and Networking of Libraries and Integration of Knowledge Resources Replicating of Library Software in 28 District Libraries	Integration of libraries and Knowledge Resources	March 2008	Roadmap of e-Granthalaya software of NIC has been planned
						Digital Preservation & Information Life Cycle Management of Government Information			

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						National Summit on "DP&ILM"	Integrated Content Archiving(ICA) Enterprise Federated Search Implementing Enterprise Content Management System Information Life Cycle Management(ILM) Establishing a Digital Repository	December 2007	Held Training Programme on DPILM - Content Development on the DPILM Portal is complete - Project "Insect Ispace" Completed the Design Development and Implementation using "Dspace" as a Digital Repository. **http://eitsm.nic.in/DPILM/InsectSpace/** - Published a Paper Entitled "**Digital Preservation of Mass Media Artifacts", in the Annual Magazine of Ministry of I & B.**
						Development of Geographical Information System and Infrastructure over NICNET HW/SW procurement; GIS Data Products; Integrated Spatial Data Services; User based application projects and Trained/GIS skilled NIC Manpower	Setting up/ strengthening of spatial data infrastructure facilities at NIC Hqr. and selected states & districts. Spatial Data Dev. Setting up integrated Image & GIS Services Human Resource Development and Training	Tender March 2008	Completed 80% data completed Basic frame work in place and operational Operational in few sectors e.g health, education, MOEF, RD etc. Two programs coducted.
						Utility Mapping Project Base map updation and training to utility agency officials.	Base map updation Maintenance of Metropolitan Area Network (MAN). Technical assistance to utility agencies.	March 2008	Base map updating for road network in SW Delhi i.e. Dwarka area is in progress. Trained manpower deployed at Sachivalaya, Delhi Govtt.
						Info Highway Project Procurement and installation of Hub and related equipment	Setting up of latest technology VSAT HUB to enable backup VSAT link for 2 Mbps leased line circuits at districts at 1:25 ratio	Procurement & installation - March 2008	Discussions with various VSAT vendors are being held.

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						Procurement and installation of necessary equipment.	Setting up of disaster recovery center at NIC Hyderabad for the DVB VSAT network.	Procurement & installation - Dec 2007	The Direcway DVB HUB chain is shifted, commissioned and tested for Disaster recovery at NIC, Hyderabad. Tender floated for SB DVB and installation at Disaster recovery centre at NIC Hyderabad. Technical bid is under evaluation.
						Data Centre Procurement of HW/SW	Set up state-of-art National Data Centre at NIC 24x7 support for Data Centre operations to ensure 24x7x365 service availability	Tender/RFP March 2008	Open tender for Storage System floated. For remaining ICT HW/SW orders placed.
						Site Preparation	Data/applications backup	May 2007	Data Centre site is under construction
						Outsourcing of Services for Data Centre Operations		March 2008	Completed
						Installation of Midrange storage & Enterprise class Tape Library			Completed and commissioned
						e-learning Procurement of contents	Setup learning portal & content material	January 2008	Completed
						DISNIC-PLAN: IT for Micro-Level Planning Establishment of DISNIC programme in Pilot districts	To usher in "database based planning" by building databases, decision support systems, and internet information access for facilitating grass-root level planning in a meaningful way; To promote informatics tools in micro level planning to strengthen	Tender/EOI March, 2008	Expressions of Interest (EOI) to outsource various project components has been published for the States Goa, Haryana, Orissa, Karnataka, Sikkim and Meghalaya. Technical Evaluation Committee (TEC) EOI for pilot project at Goa, Haryana, Karnataka and Orissa being processed.

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							analytical capability in districts; To develop necessary infrastructure facilities in the District Planning Cells to handle both spatial and non-spatial information in an integrated manner; To provide necessary training to narrow-down the gap between the planners and various subject specialists in districts.		TEC formed for Meghalaya state. Tender Document for Jhajjar district being processed Tender Document for Goa, Karnataka and Orissa has been submitted to the Tender Committee for approval. On-going Portal development using Microsoft Technology as well as Open Source Technology. Technical Evaluation of the bidders will be done shortly.
17.	Integrated Township and Consultancy for such establishments	Establishment of the State-of-the-art integrated townships to facilitate IT/ITes/BPO industries	--	1.00	--	DIT would co-ordinate with State/UT Governments for setting up Integrated modern Townships with special focus on IT/ITES/Electronics hardware industries.	Development of Integrated Modern Townships with provisions of road connectivity, link to airports, provisions of reliable power, water and appropriate infrastructure for education and health for IT/ITES Industries demand.	March 2012	Cabinet not approved.