Sr. No	Name of Scheme/ Programme	Objective/ Outcome		(Rs. in crore) Ou		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
1.	Society for Applied Microwave Electronics Engineering & Research (SAMEER)	Research & Development activities in the areas of its expertise	3.00	42.94 Includes Rs. 2.00 crore for NER	34.50	R&D in Core Areas	Research leading to expertise in  Ground based cloud profiling Radar operating in Ka band	System development (incuding, design,deve- lopment of Hardware, Software,int e-gration of the system and testing)  Continuous Activity	
							Design and development of indigenous digital ionosinde for ionospheric studies	System development (incuding, design,deve- lopment of Hardware,- Software,inte -gration of the system and testing)  Continuous Activity	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	(Rs. in crore)			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR	•			Factors
							Technology development for location of live subjects buried inder/hidden behind various barriers.	System development (incuding, design,deve- lopment of Hardware, Software,inte -gration of the system and testing)  Continuous Activity	
							Technology development by implement-tation of active aperture in mini Radar	System development and evaluation  Continuous Activity	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
	<b>g</b>		Non- Plan	Plan Budget	Comp IEBR				Factors
				V			Design and development of UWB sources,UWB antenna and testing for radiated susceptibility.	Radiated Susceptibility studies of UWB sources and antennas  Continuous Activity	
							Indigenous technology development of the Imaging system.	Development of Image processing algorithms and image processing system.	
								Continuous Activity	
							Development of Radio with cognitive features, possibly at two ISM frequency bands (2.4-2.4835 GHz & 5.15-5.35GHz)	System development and evaluation  Continuous Activity	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	_	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		To engage in product development	T MIN	Duager		Developmemnt of Dual Photon and multiple electron energy medical Linac	Technology development of Frquency Multiplier at 94 GHz  Advanced version of integrated oncology system	Design,fabrication and testing of Frequency multiplier in W band. Continuing Design, development prototype.	
		driven by technology and user requirement				Development of 15 MV Industrial Linac system	State of the art industrial LINAC	carryout user acceptance tests and make engineering	
						Development of 4 units of 6 MV Medical linac under Jai Vigyan Project (Phase II)	Development and deployment of units at the identified hospital TOT to industry &training	model fit for transfer of technology for bulk production	
						Development of Doppler SODARs	Vehicle mounted Doppler sodars with solar panel back ups will be developed and delivered to users	Timelines: Typically 6 months to 24 months	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
	1 Togrummo		Non- Plan	Plan Budget	Comp IEBR				Factors
						Development of ST radar at 200 MHz	State-of the art atmospheric radar for getting wind profiles up to 16-20 kms		
						Development of Tunable laser diode based water sensor.	Development of Prototype sensor modules based on tunable laser diode and delivery to user agency.		
						Research on Left Hand Maxwell (LHM) system	Fabrication of new metamaterial structures and experiments		
						Development of mm wave antennas	Fabrication and testing of millimeter wave antennas		
						Design and development of coherent transceiver at 94 GHz	Engineering of millimeter wave modules and prototype system demonstration		
						Research on Left Hand Maxwell (LHM) system	Fabrication of new metamaterial structures and experiments		

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Development of Front-end for wireless data link at 60 GHz	Assembly of subsystems and demonstration of system		
						Development of mm wave antennas	Fabrication and testing of millimeter wave antennas		
		To provide test and measurement services and to undertake training and consultancy in areas of core competence.				Test, measurement and Design consultancy services Calibration and reference to support EMI test instrumentation  Periodical calibration and 10 mtr chamber for automobile industry  Conduct training and consultancy and guiding students to carry out projects for their engineering degrees.	600 test assignments for EMI/EMC and 10 test assignments for thermal design and analysis.  Training of manpower	Analyze the product design for its EMC and make test plan for its compliance to international standard. Incase of non-Compliance, Offer EMC design assistance. Timeline: Continuous activity	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		Strengthening institutional infrastructure to support ongoing programmes		V		Construction of Residential quarters for Scientists and utility building at Navi Mumbai  Construction of Scientist Hostel building at SAMEER ,Powai campus Construction of Utility building at SAMEER,Powai Campus And Site development.	Awarding contract, execution and creating infrastructure	12-18 months	
						Augmentation of Facilities	Procurement and augmentation	12 months	
		To keep pace with rapidly changing technology by continuous training of its manpower				Deputation of staff in India/Abroad to attend workshop, conference and seminars. To invite experts to deliver talks/seminars at SAMEER centres.	Interaction with national and international experts and exchange of ideas	Continuous activity.	

	Name of Scheme/	Objective/ Outcome	Outlay (Rs. in	2011-12		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
NO	Programme	Outcome	Non- Plan	Plan Budget	Comp IEBR	Outputs	Outcomes	Timemies	Factors Factors
	Micro-electronics and Nano- technology Development Programme	To establish nanoelectronics & microelectronics base in the country through setting up of centres of excellence, technology development & capacity building through sponsored R&D projects in the area of nanoelectronics, nanometrology, Microelectronics, and MEMS.	-	100.00 Includes Rs. 5.00 crore for NER	-	3 large/medium/small nanoelectronics projects will be initiated.  14 on-going nanoelectronics projects will be continued.  2 projects on microelectronics will be initiated.  11 on-going microelectronics projects will be continued.	It would enable creation of a strong R&D base in microelectronics and nanoelectronics in the country	April 2011- March 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
3.	Technology Development Council (Incl. ITRA)	IT for Industrial Applications	-	79.00 Includes Rs. 7.00	-	National Mission on Power Elect	tronics Technology Pl	hase II (NaMI	PET II)
	(IIICI. II KA)	To strengthen local base for R&D/application in Electronics & IT in the field of Industrial Electronics, Agriculture and Water Resources.		crore for NER		First Qr. 1.4.2011 –30.6.2011 Initiation of Full Spectrum Simulator Miniature model  Creation of Simulation Centre at IIT Bombay	Miniature model of Full spectrum simulator for educational institutes.  Initiation of the project Simulation Centre at IIT Bombay for Power Electronics Systems.	May 2011  June 2011	Assuming that NaMPET phase2 will commence before March 2011.  SFC Note is under submission for approval of competent authority.
						<ul> <li>Second Qr 1.7.11 – 30.9.2011</li> <li>Infrastructure up-gradation at Nodal centre (starting)</li> </ul>	Starting of activities of Lab Infrastructure at Nodal Centre	July 2011	-do-
						Conduct First Short-term course on Power Electronics	One Short-term course	July 2011	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		7 2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Third Qr 1.10.11 – 31.12.2011			
						Conduct Second Short-term course on Power Electronics	One Short-term course	Oct 2011	
						Up-gradation of NaMPET website at Nodal Centre	Enhanced version of NaMPET website www.nampet.in	Nov 2011	-do-
						National Workshop on Power Electronics -NWPE 2011	NWPE 2011	Nov 2011	
						Fourth Qr. 1.1.2012 -31.3.2012			
						• Conduct Third Short-term course on Power Electronics	One Short-term course	Feb.2012	-do-
						Automation System	Technology Centre (	ASTeC)	
						First Qr. 1.4.2011 –30.6.2011			
						Embedded Controller & General Purpose Controller	Completion of field trials	June 2011	
						Initiation of Demonstration projects	Prepration of detailed project report, study of sub systems	June 2011	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Second Qr 1.7.11 – 30.9.2011			
						Real Time Expert System Shell	Field trials of Failure Forecast Engine	Aug 2011	
						MEMS level sensor	Development of MEMS sensor prototype	Sept 2011	
						Demonstration projects	Completion of system engineering of sub systems	Sept 2011	
						Third Qr 1.10.11 – 31.12.2011			
						Wireless Sensor Network	Completion of testing & commissioning of WSN	Dec 2011	
						MEMS level sensor	Integration with electronics	Dec 2011	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		y 2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Fourth Qr. 1.1.2012 0 31.3.2012			
						Wireless Sensor Network	Development of Mote for vehicle sensing	March, 2012	
						MEMS level sensor	Completion of packaging & field trials	March 2012	
						Demonstration projects	Completion of testing & Commissioning	March 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		y 2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
	J		Non- Plan	Plan Budget	Comp IEBR				Factors
						A Collaborative Intelligent Transport	tation System Endeavo	our For India	n Cities (IT
						First Qr. 1.4.2011 –30.6.2011			
						Congestion Management using RFID	Completion of field trials and demonstration	April 2011	
						Wireless Traffic Control Systems	Prototype to be ready for field trials	June 2011	
						Second Generation CoSiCoSt (2G-CoSiCoSt)	Release of Traffic Simulator Software beta version	June 2011	
						Intelligent Parking lot Management System	Complete testing at CDAC T Parking area.	June 2011	
						Red light Violation Detection System	Complete field trial at Trivandrum	June 2011	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Qr. 2 1.7.11 – 30.9.2011			
						Wireless Traffic Control Systems	Completion of field trials	Sept. 2011	
						Real-time Traffic Counting and Monitoring System	Setting up of Control room at IIT Bombay.	Sept. 2011	
						Intelligent Parking lot Management System	Completion of field trials	Sept. 2011	

Sr. No	Name of Scheme/ Programme	Programme Outcome (Rs. in crore)			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk	
			Non- Plan	Plan Budget	Comp IEBR				Factors
				8		Qr. 3 1.10.11 – 31.12.2011			
						Second Generation CoSiCoSt (2G-CoSiCoSt)	Release of Product.	Nov. 2011	
						Real-time Traffic Counting and Monitoring System	Loop and Video site installation Beta version of Algorithm for real time data display and reports	Dec. 2011	
						Intelligent Parking lot Management System	Release of Product.	Dec. 2011	
						Intelligent Transit Trip Planner and Real-time Route Information	Pilot testing of Real-time trip planner	Dec. 2011	
						Red light Violation Detection System	Release of Product.	Dec. 2011	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	(Rs. in			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Fourth Qr. 1.1.2012 0 31.3.2012			
						Real-time Traffic Counting and Monitoring System	Customized loop for heterogeneous traffic, Algorithm for real time data display and reports	Mar. 2012	
						Advanced Traveller Information System for Indian Cities	Video Cameras and communication network installation &	Mar. 2012	
						Intelligent Transit Trip Planner and Real-time Route Information	Travel time prediction algorithms, Real-time trip planner under operation	Mar. 2012	
						Application of Electronics for Agricul	ture & Environment (	(e-AGRIEN)	
						First Qr. 1.4.2011 -0.6.2011			
						Development of Electronic Nose for odour handling	Procurement of Sensors and Testing	June 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Second Qr 1.7.11- 30.9.2011			
						Agri Information Sysytem	Development of Application Software	July 2011	
						Decision Support system for Tea Production	Wireless Sensor Network Software development	Sept 2011	
						Membrane Electrode Array of Taste Characterisation of Agro Products Third Qr 1.10.11–31.12.11	Sensor development	Sept. 2011	
						Development of Electronic Nose for odour handling	Integration of Sensor Array for odour handling	Dec. 2011	
						Digital Image processing in Tasar Sericulture	Development of Hardware and software	Dec. 2011	
						Organization of Workshop/ Seminar	Dissemination of R&D output and feedback.	Dec. 2011	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Fourth Qr. 1.1.12- 31.3.2012			
						Decision Support system for Tea Production	Field Testing of prototype	Mar. 2012	
						Membrane Electrode Array of Taste Characterisation of Agro Products	Dev and Integration of sensing system	Mar. 2012	
						Procurement laboratory equipment as per need of the sub-projects	Establishment of R&D Infrastructure at C-DAC, Kolkata	Mar.2012	
						Conduct Training Program	Upgradation of knowledge and skill to run the eAgriEn Program successfully.	Mar. 2012	

Sr.	Name of Scheme/	Objective/		2011-12		Quantifiable Deliverables/Physical	Projected	Processes/	Remarks
No	Programme	Outcome	(Rs. in		T	Outputs	Outcomes	Timelines	Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		Emerging Areas in IT -  To build and enhance competencies in Emerging Areas of Information Technology Including infrastructure creation and capacity Building in the country				Ongoing projects of Scientific Computing, Ubiquitous Computing and Perception Engineering will be progressed and new projects will be initiated in other Emerging areas of IT.	Proliferation and absorption of emerging technologies in the country would be facilitated in the area of IT applications	March 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
	0		Non- Plan	Plan Budget	Comp IEBR				Factors
		Free & Open Source Software (FOSS) Initiative				1. R&D activities will be carried out to meet the targets and objectives of NRCFOSS Phase II project.	1. Proliferation and adoption of FOSS in the country will be facilitated.	March 2012	
		Development and proliferation of Free/Open Source Software							
		(FOSS) in India for bridging the digital divide and helping in creation of a knowledge society.				2. Project "Trainers Training & Student Talent Transformation for CBSE" will be progressed  New R&D projects to be initiated in FOSS	2. Preliminary educational content will be developed	March 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		Bioinformatics Initiative  To strengthen Bioinformatics base in the country through setting up Centres of Excellence, technology development & capacity building through sponsored R & D projects in the area of Bioinformatics.				2 New multi –institutional projects to be initiated in areas of application of neural netwotks/ SVM to system biology for identification of Genetic Risk factors and Prognostic Markers for Diabetic Retinopathy for developing novel intervention strategies and Development of a 3D structure database for identifying drug gable targets for malaria.	D base in Bioinformatics in the country by way of developing SW	July 2011	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		y 2011-12 n crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Four/ Five new large/medium/small projects to be initiated in areas such as creation of database of molecular alterations associated with various diseases like brain tumor, identify potential drug target for diseases such as chlamydia trachomatis etc		October 2011	
						Ongoing projects will be continued towards their completion.		March 2012	
		M-Commerce Initiative	-			Ongoing projects on Digital Preservation would be progressed.		March 2012	
						Ongoing projects on ICT for low carbon emissions would be progressed.		March 2012	
						Ongoing projects on mobile commerce would be progressed.		March 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		IPR Promotion Programme				Profile of IPR filed and Granted	95 IPRs to be filed	March 2012	
						SIP-EIT Scheme to provide support to SMEs for filing International Patent	15 Cases to be Processed.	March 2012	
						Conduct of Workshops/ Seminars for IPR awareness	20 IPR clinics/ Seminars	March 2012	
						New projects to be initiated.		March 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		Innovation Promotion		8				March 2012	
		Ongoing projects in the area of RFID will be progressed.							
		Technology Innovation Technology Incubation and Development of Entrepreneurs (TIDE) scheme and Multiplier Grant scheme (MGS) will be progressed.						March 2012	

Sr.	Name of Scheme/	Objective/	•	2011-12		Quantifiable Deliverables/Physical	Projected	Processes/	Remarks/
No	Programme	Outcome	(Rs. in		1	Outputs	Outcomes	Timelines	Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		IT Research Academy (ITRA)  To build a				Identification and initiation of two Participating Institutions.	Enhancement of Quality of Research and Education in the country.	March 2012	
		National Resource for advancing the quality and quantity of R&D in IT and Electronics				Identification and initiation of four Research Groups	Generate a pool of Doctorates in IT and Electronics for R&D and academic purposes.	March 2012	
4.	Convergence, Communication Broadband and Strategic Electronics	To undertake and support R&D projects for the development of Convergence, Communication s and Broadband technologies	-	Includes Rs. 2.00 crore for NER	-	Initiation of 10-15 projects in development/application of the Next Generation Communication, SDR & Cognitive Radio, TETRA, Mobile Adhoc networks, Wireless Sensor Networks Systems, Cyber Physical systems, Broadband Technologies, IP based technologies, Green and digital broadcast technologies. ICT for strategic & surveillance applications. Studies in cutting edge technologies and development of road map for the country.	The R&D will lead to establishing indigenous capability in emerging technologies.	On an average 4 projects in quarter are proposed to be initiated. The projects are generally of 1-3 years duration.	
						Monitoring of about 25 ongoing projects by the respective Project Review and Steering Groups.			

Name of Scheme/ Programme	Objective/ Outcome				Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
		Non- Plan	Plan Budget	Comp IEBR				Factors
Components & Material Development	To support Infrastructure development	0.60	25.00 Includes	13.18	Development of lead free x-ray absorbing coating materials for TVs	•To develop lead free material for X- ray absorption	April 2011	Ongoing
Programme	projects for the development of Electronic	crore for NER		Preparation of Carbon Aerogel and Development of Aerocapacitor for Electronic Applications	To develop the aerogel capacitor	May, 2013	Ongoing	
	Materials				Design & Development of Piezoelctric Multilayer Actuator for MEMS based Micro valve	• To develop Piezoelctric Multilayer Actuator for MEMS based Micro valve	May, 2013	Ongoing
					• Synthesis and Development of Broadband EMI shielding materials using Magneto-dielectric Nanoparticles	• To develop Broadband EMI shielding materials using Magneto- dielectric Nanoparticles	May, 2013	Ongoing
					• Hybrid solar cells based on organic polymers and Inorganic Nano particles" at C-MET, Pune along with Moser Baer, UP.	•To develop alternative source of energy	May, 2012	Ongoing
					To initiate new projects on Electronics materials and components		April,2011	New
	Programme  Components & Material	Programme  Components & To support Infrastructure development Programme  To support Infrastructure development and R & D projects for the development of Electronic	Programme Outcome (Rs. in Non-Plan) Components & To support   0.60 Material   Infrastructure   development   Programme   and R & D   projects for the   development of   Electronic	Programme Outcome (Rs. in crore) Non-Plan Plan Budget  Components & To support Infrastructure development Programme And R & D projects for the development of Electronic  Rs. in crore)  Non-Plan Budget  0.60 25.00  Rs. 1.00 crore for NER	Programme Outcome (Rs. in crore)  Non- Plan Budget IEBR  Components & To support 0.60 25.00 13.18  Material Infrastructure development development and R & D projects for the development of Electronic  Programme  Outcome (Rs. in crore)  Non- Plan Budget IEBR  Components & Includes Rs. 1.00  Rs. 1.00  Crore for NER	Programme Outcome    Rs. in crore  Non- Non- Plan Budget   EBR	Programme	Programme

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	-	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		To support development and initiatives to eradicate the issues related to electronics products				• Establishment of testing facilities for the hazardous substances as per European Union (EU) Directive of Restricting the use of hazardous substances (RoHS	•To establish a centre for testing of hazardous substances and RoHS certification	October 2011	Ongoing
		affecting the environment				• Environmentally sound methods for recovery of metals from Printed Circuit Boards" at C-MET, Hyderabad	•To explore the environmental friendly recycling technology for Printed circuit boards	May, 2012	Ongoing
						• To initiate new projects on Electronics waste recycling and green electronics		May, 2011	New

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	_	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		To nurture photonic technologies				Biomedical and Material Analyses utilizing The built FCS Systems	Multi-institutional Work biophotonics for Health care	July 2011	Ongoing
		relevant in IT and optical				Addition of TCSPC (Time Correlated Single Photon Counting)		Dec 2011	
		communication as well as develop technologies in the broader				Demonstrate high power fiber lasing action of the special fibers	Developing technology for High Power Fiber laser by nanoparticles	Sept 2011	Ongoing
		application areas of Photonics through				Fabrication and characterization of Interleaver for WDM based on SOI wave guides,	Dev of Silica on Silicon Technology for Opto electronic devices	May 2011	Ongoing
		sponsored R & D projects.				Channel waveguide fabrication and characterization.	Dev of Wave- guides using rare earth doped glass systems	May2011	Ongoing
						Synthesing and Thermal deposition of Anthracene based derivatives for Blue OLED material	Evolution of Green Photonics technology	Aug 2011	Ongoing
						Initiate new projects in solid state lighting		June 2011	New
						lighting			

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Expanding of list of mentors and Institutions	Developing of a resource base of personnel trained to	April 2011	Ongoing
						Selection of second batch and airing of student with the mentor	carry out advanced research in Photonics	July 2011	
		To support R & D projects for the development of Electronic Materials				<ul> <li>Integrated Electronics Packaging</li> <li>Development of basic ferrite materials for integrated applications in LTCC</li> <li>Development of direct-writing capability on LTCC and required conductor materials</li> <li>Development of basic dielectric materials for low-k applications in LTCC</li> <li>Continuation of fin-pitch lithography for fine bumping</li> </ul>	Process for Integrated Glass- Ceramic Packaging	March, 2012	Ongoing

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	•	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						<ul> <li>Nanomaterials and devices</li> <li>Preparation of quantum dots of QDs of Cu<sub>2</sub>Se and Ag<sub>2</sub>Se in various matrices including polymers</li> <li>End user trials for nano-size metal/metal oxides particles</li> <li>n-type and p-type transparent conducting oxide thin films.</li> <li>NTC Thermal Sensors of required specifications.</li> </ul>	• Generation of Nano-powders, Nanocomposite & Quantum dots of metals/ semiconductors/ for Electronics Technology and allied applications	March, 2012	Ongoing
						<ul> <li>Ultra high purity materials</li> <li>Wide band gap (WBG) SiC single crystals.</li> <li>High purity Ga and its alloys / crystalline compounds.</li> <li>Upscaling the solidification system, batch process and purity / yield improvement.</li> </ul>	Process     technology /Pilot     plant scale     production of     ultrapure metals	March, 2012	Ongoing

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	•	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						<ul> <li>Materials for Renewable Energy</li> <li>Nanocomposites for solar cells</li> <li>Nanostructured materials as a Photocatalyst for hydrogen generation</li> <li>Fabrication of supercapacitors using carbon aerogels.</li> </ul>	Process for renewable energy material.	March, 2012	Ongoing
						Piezo sensors and Actuators  • Fine tunings of bender actuators.  • Development of low temperature piezo composition  • Process for piezoelectric thin films of required specifications  • Thin films characterization	Process/technol ogy for sensors and actuators.	March, 2012	Ongoing

Sr.	Name of Scheme/	Objective/		y 2011-12			uantifiable Deliverables/Physical	Projected	Processes/	Remarks/ Risk
No	Programme	Outcome	Non- Plan	Plan Budget	Comp IEBR		utputs	Outcomes	Timelines	Factors
6.	Centre for Development of Advanced Computing (C-DAC)	High Performance Computing (HPC)	3.00	203.40 Includes Rs. 21.00 crore for	210.00	•	Preparation for Petascale Computing	• R&D towards Architecture of Petascale Computing	March 2014	
				NER		•	HPC Applications	• Advance research in domains of Science and Engineering with the use of PARAM systems as follows:	March 2014	
								<ul> <li>Atmospheric and Environmental Science</li> <li>Material and Structural Engineering</li> <li>Computational Fluid Dynamics</li> <li>Geophysical</li> <li>Bio-informatics</li> </ul>		
								210 mormanos		

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		Garuda				<ul> <li>Grid Technology Services for Operational Phase of Garuda</li> <li>Applications on Garuda</li> </ul>	Migration to National Knowledge Network (NKN); Grid Tools and Technologies; Extensive participation of research and application communities; Reduction in lead time for research and technology development      Open Source Drug Discovery (OSDD)	July 2012  March 2012	

Sr. No	Name of Scheme/	Objective/ Outcome		2011-12		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
No	Programme	Outcome	Non- Plan	crore) Plan Budget	Comp IEBR	Outputs	Outcomes		Factors
		Multilingual Computing				Speech to Speech Machine Translation System	Development of Speech to Speech translation system among English and Indian languages for Education Domain	March 2016	
						Machine Translation System (Indian to Indian Language for Administrative domain)	Development of Machine     Translation     System from     Regional     Language to     Hindi for     administrative     domain for state     Government     domain	March 2013	
						Optical Character Recognition (OCR)  Letters time I be a line of December 1. The second of the	Development and deployment of new emerging tools and capabilities	March 2012	
						<ul> <li>Internationalized Domain Names (IDN)</li> <li>Cross-lingual Information Access for Tourism &amp; Health Domains &amp; Video Search Engine</li> </ul>	Localization of domain names to the remaining Indian languages		

Name of Scheme/ Programme	Objective/ Outcome	•			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
J		Non- Plan	Plan	Comp IEBR	•			Factors
	Professional Electronics				<ul> <li>Smart Grid</li> <li>Mobile Ad hoc Network (MANET) &amp; Advanced Network Monitoring</li> </ul>	<ul> <li>Enhancement of electric delivery system, including generation, transmission, distribution and consumption through an automated distributed energy delivery network</li> <li>Development of technologies and solutions for advanced radio and network</li> </ul>	March 2014  March 2014	
					Software Defined Radio (SDR) – Phase II & Cognitive Radio	communications to address the military and civilian communications  • Software Communication Architecture	March 2012	
	Name of Scheme/ Programme	Programme Outcome  Professional	Programme Outcome (Rs. in Non-Plan  Professional	Programme Outcome (Rs. in crore) Non-Plan Plan Budget Professional	$ \begin{array}{c cccc} Programme & & & & & & & & & & \\ & & & & & & & & $	Professional Electronics    Professional Electronics   Professional Electro	Programme         Outcome Plan Plan Plan Budget Plan Budget IEBR         Comp Plan Budget IEBR         Smart Grid         • Enhancement of electric delivery system, including generation, transmission, distribution and consumption through an automated distributed energy delivery network           A supplied to the plan Plan Plan Plan Plan Plan Plan Plan P	Programme         Outcome Plan Plan Plan Budget         Comp IEBR IEBR         Outputs         Outcomes         Timelines           Professional Electronics         Professional Electronics         Smart Grid         Smart Grid         Enhancement of electric delivery system, including generation, transmission, distribution and consumption through an automated distributed energy delivery network         March 2014           A substitution and consumption through an automated distributed energy delivery network         March 2014         March 2014           A substitution and consumption through an automated distributed energy delivery network         March 2014         March 2014           A substitution and consumption through an automated distributed energy delivery network         March 2014         2014           A substitution and consumption through an automated distributed energy delivery network         Advanced Network Monitoring advanced radio and network communications to address the military and civilian communications to address the m

Sr. No	Name of Scheme/	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
NO	Programme	Outcome	Non- Plan	Plan Budget	Comp IEBR	Outputs	Outcomes	Timemies	Factors
				V			waveforms, which can meet the requirements of reconfiguration and portability	Manak	
						Intelligent transportation system	Wireless Traffic Control System; Red light violation detection system; Parking lot management system	March 2011	
						ASIC based Digital Programmable Hearing Aid	system	June 2012	
						Next Generation Control System	<ul> <li>Prototype for Advanced</li> <li>Programmable</li> <li>Hearing Aid</li> </ul>	March 2014	
							• Enhancement of the features of existing control system and development of Field Bus interfaces like HART, Wireless		

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		tlay 2011-12 . in crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR	mp BR			Factors
						Perception Engineering	HART and Profibus- Decentralized Peripherals	March 2014	
							Development of human perception advanced algorithms to solve problems in Image Processing and Pattern Recognition; Prototype of Automatic Facial Expression Analysis System (AFEA) and e-Nose for detection of application related to food and beverages, environment, explosive detection etc.		

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2011-12 (Rs. in crore)				nantifiable Deliverables/Physical structs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR					Factors
		Software Technologies Mission				•	Cloud Computing Infrastructure development and applications including scientific cloud	• Development of Cloud Computing Framework including the middleware, security solution leading to cloud computing environment to be used as a test-bed for deployment of scientific applications	March 2014	
						•	NRCFOSS- Phase II including desktop for the differently Able	Development of Open Source Tools, Technologies and localized applications for enhancing the accessibility to IT for differently abled people	May 2012	
							55			

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)	Comp	Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk Factors
			Plan	Budget		<ul> <li>e-Governance applications:</li> <li>Development of new e-Governance products, Solutions.</li> <li>Replication of already developed e-Governance in the state and central government Departments</li> <li>Mobile Computing</li> </ul>	<ul> <li>To deploy e-solutions, promising transparency, speedy information dissemination, higher administrative efficiency and improved public services</li> <li>Replication of successful implementations, Deployment of good practices and skill sets</li> <li>Development of applications, tools and middleware, for service delivery gateway through mobile computing to reach masses</li> </ul>	March 2012  March 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		y 2011-12 crore)			nantifiable Deliverables/Physical	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR					Factors
						•	Information Rights Management	• IRM and preservation for digitally born documents in NeGP	March 2013	
						•	India Development Gateway (InDG) – Phase II	Capacity building of content consortiums; Delivery of value added information, products and services	March 2012	

Name of Scheme/ Programme	Outcome	Outlay 2011-12 (Rs. in crore)			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Risk
		Non- Plan	Plan Budget	Comp IEBR				Factors
	Cyber Security and Cyber Forensics				<ul> <li>Wireless Security</li> <li>Biometric, Finger Print, Iris and Face Recognition</li> </ul>			
					Data Recovery Centre			
					Cyber security Framework for e-Governance	<ul> <li>Development of Prototype</li> </ul>	December 2012	
					Preventive Security Systems such as PAX-Insider Attack Detection for preventing data exfiltration	<ul><li>Insider Attack</li><li>Repository of</li></ul>	March 2013	
					Technologies for compliance of amended IT Act 2008	relevant to IT Act and its Amendment Act, including		
						case studies. Framework for online identify		
						tracking and analysis of Secure Electronic		
	Name of Scheme/ Programme	Programme Outcome  Cyber Security and Cyber	Programme Outcome (Rs. in Non-Plan)  Cyber Security and Cyber	Programme Outcome (Rs. in crore) Non- Plan Plan Budget  Cyber Security and Cyber	Programme Outcome (Rs. in crore)  Non- Plan Budget IEBR  Cyber Security and Cyber	Programme Outcome (Rs. in crore) Non-Plan Budget  Cyber Security and Cyber Forensics  Outputs  Wireless Security  Biometric, Finger Print, Iris and Face Recognition  Data Recovery Centre  Cyber security Framework for e-Governance  Preventive Security Systems such as PAX-Insider Attack Detection for preventing data exfiltration  Technologies for compliance of	Programme	Programme

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		y 2011-12 crore)		_	uantifiable Deliverables/Physical utputs	Projected Outcomes		Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR					Factors	
		Health Informatics				•	Knowledge Systems based on concept maps	•	Development of Web-based Symptoms Check Knowledge for Human Health, Animal Diseases and Plant Diseases	March 2012	
						•	Body Sensor Network  Architecture Development for Electronic Health Records (I)	•	Development of Medical Kiosk with body sensor Network Health Portal for Doctors / Patients	March 2013	
						•	Healthcare Delivery using SaaS model in Cloud Computing	•	Development of SaaS deployable HMIS Software Suite	March 2013	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		<b>Ubiquitous Computing</b>	Plan	Биaget	IEDK	<ul> <li>Development of hardware, middleware and application development for Ubicomp</li> <li>Ubiquitous network privacy &amp; security</li> </ul>	Devices and systems for Ubiquitous healthcare and Body Area Networks (BAN); Design and development of Wireless Vital Signs monitoring kit – Body Temperature, Pulse rate, Blood Pressure, Pulse oxi-meter      Design and development of wireless sensor network systems and gateways		

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		Building R&D Infrastructure				<ul> <li>Building R&amp;D infrastructure at Chennai, Delhi, Hyderabad, Pune and Thiruvanthapuram</li> <li>Additional Infrastructure at Mohali</li> </ul>	To build an appropriate campus for C-DAC which can house a number of facilities of C-DAC	Q3 2011-12	
7.	Electronics in Health & Tele- medicine	To promote development of medical	-	11.50 Includes	-	Establishment of batch fabrication facility for Linac machines		Dec. 2011	
	medicine	electronic equipment, rehabilitation		Rs. 1.00 crore for NER		TOT of indigenously developed medical electronics products.		Sept. 2011	
		devices and Telemedicine Systems.		TVEAT		Deployment of linac machines for cancer treatment.		Dec. 2011	
		Systems:				Initiation of new R&D projects in the area of Medical electronics & Telemedicine.		March 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
	Trogramme	Outcome	Non- Plan	Plan Budget	Comp IEBR	Outputs	Outcomes	Timemies	Factors Factors
8.	Technology Development for Indian Languages	The major objectives of the programme are: To develop information processing tools to facilitate human machine interaction in Indian languages and to create and access to multilingual knowledge resources/conte nt.  (2) To promote collaborative development of futuristic technologies leading to innovative products and services.		35.00 Includes Rs. 3.00 crore for NER	_	Machine Translation system, Crosslingual Information Access System, OCR and OHWR with increased accuracy and performance towards product development	Consortium Mode Projects –Phase –II in the areas of Machine Translation, Cross- lingual Information Access, Optical Character Recognition and OHWR	Mar 2012	The feedbacks on Outputs from Phase –I of the consortia mode projects would be reviewed for improvement of perforamnce

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	come (Rs. in c	ay 2011-12 in crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Development of English – Hindi Machine Translation System using Anusaraka approach	Project for implementation English – Hindi Machine Translation System using Anusaraka approach	Dec 2011	
						Phonetic engine and Phonetic Search systems in six Indian Languages	Consortium Mode project for Development of Phonetic search in Indian languages	Dec 2011	Proof of Concept Phonetic Engine & Phonetic search facility has been experiment ed.
						Development of Pronunciation Lexicon (PLS) in Indian languages as per W3C PLS Standards Example Lexicon for Hindi and Bengali with 3.0 L words	Project for implementation of Pronunciation Lexicon in Indian languages and Hindi and Bengali as example lexicons	Jan 2012	Project Initiation . National Standard for PLS would be developed for submission to W3C

Sr. No	Name of Scheme/ Programme	gramme Outcome (Rs. in crore)			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk	
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Dravidian Wordnet for 4 South Indian languages Tamil, Telugu, Kananda and Malayalam	Project for implementation of Dravidian Wordnet for 4 South Indian languages Tamil, Telugu, Kananda and Malayalam	Sep 2011	Project Initiation
						Research & Development for, promotion and proliferation of Localization in official languages, Dev. Of localization tools showcasing Laboratory etc.	Establishment of National Localization Research and Resource Centre (NLRRC)	Dec 2011	Seeding activities towards establishme nt of NLRRC already initiated

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	(Rs. in	2011-12 crore)	1	Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						On-	Going Projects		
						Stake holders consultation and Validation of the following: Consolidation of inputs for internalization in W3C standards namely CSS, PLS, Xforms, XHTML and E-Gov activity.	Web Internationalization , Standardization and W3C India Initiative	March 2012	Ongoing. Focused Workshop on Mobile Web Initiative and speech technology. Initiation of work towards evolution of National Input recommend ations for W3C PLS, CSS and Voice XML standards

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Uploading of Language Technology Software Tools & resources	Indian Language Technology Proliferation and Deployment Centre	Dec 2011	Data Centre launched, Project under implementa tion
						Support for CD user base Percolation of CDs to new spheres. Reviewing of CD Contents & also upgrades of open source regions. Development of Indian Languages fonts for Mobile handsets	National Roll-Out Plan Phase-II	Feb 2012	Project under implementa tion
						Development of 15,000 Synsets in 4 North Eastern Languages	Development of Word-net for Languages of the North East	Feb 2012	Project under implementa tion
						<ul> <li>POS Tagset standard</li> <li>Annotated text corpora of 2 lakh words in 11 Indian Languages</li> </ul>	Indian language Corpora Initiative	Jan 2012	Project under implementa tion

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	•	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Alpha version of Text-to-speech systems for 5 Ils (Hindi, Marathi, Tamil, Telugu, Malayalam)	Development of Text-to-Speech in Indian languages	Sep 2011	Project under implementa tion
						Alpha version of Speech Recognition Systems in 5 Indian Languages for Agricultural domain	Development of Automatic Speech Recognition for Indian Languages	Jan 2012	Project under implementa tion
						100 hours of Bodo speech Corpora and IPA representation of Bodo language would be developed.	Development of Bodo Speech Corpora and its IPA representation	June. 2011	Project under implementa tion
						Draft Script Grammar for major Indian languages A generic software develop environment independent of application/platform to support development of versions NLP applications.	Development of Fonts, Keyboard, Script, Grammar for major Indo- Aryan Languages	Dec 2011	Project under implementa tion
						Pre- alpha version of NLP Dashboard	Dashboard Development Environment for NLP Applications	Dec 2011	Project under implementa tion

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Alpha version of Sanskrit –Hindi MT System	Development of Sanskrit Computational Tool Kit and Sanskrit- Hindi Machine Translation system	Dec 2011	Project under implementa tion
						Draft CLDR, Fonts, Keyboard layout & drivers for Assamese, Bodo, Manipuri and Nepali	Development of major North- Eastern Languages (NE Consortium)	Dec 2011	Project under implementa tion
9.	IT for Masses (Gender, SC/ST)	Upliftment of Women and Development of SC/ST using IT.	-	Includes Rs. 2.00 crore for NER, Rs.5.58 crore for SCSP & Rs.7.37 crore for TSP.	-	To conceive and formulate projects for development of Women and SC/ST.	Capacity building of Women and SC/ST through Infrastructure development, Training, & Entrepreneurial creation of target groups in different States/ UTs.		
								March, 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
110	Trogramme	Outcome	Non- Plan	Plan Budget	Comp IEBR	Outputs	Outcomes	Timemes	Factors
10.	Media Lab Asia	To undertake and facilitate Research, Development and deployment activities.	-	Includes Rs. 3.00 crore for NER	20.00	5 projects will be introduced in the following areas:     ICT – Education     ICT – Empowerment of Disabled     ICT – Livelihoods     ICT – Healthcare	Development and Deployment of ICT based models in thrust areas of Media Lab Asia viz. Livelihood Generation, Empowerment of the Disabled, Healthcare and education.	will be introduced during Apr – Sept 2011 3 projects will be introduced during Oct 2011 – mar 2012.	
						• 5 projects will be completed		The projects will be completed as per schedule.	
11.	STQC	Establishment of Quality Assurance Infrastructure in the country to facilitate quality		120.00 Includes Rs. 14.00 crore for NER	-	1.Up gradation of Test & Calibration facilities to cater to state-of-the-art products with emerging technologies	Allocated budget will be spent for up gradation of test and calibration facility to meet the demand industry.	March, 2012	
		products & services at par with global				2 Revenue target realization.	Revenue of Rs. 45 crores approx. likely to be generated.	March, 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	•	(Rs. in crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		standards and practices				3. Upgrade s/w test facilities for e-Governance application	S/w Test Tools for "Mission critical Project" like defense/space will be procured.	March, 2012	
						4. To up-grade Biometric device Certification Scheme	Bio-metric devices to be certified.	March, 2012	
						5. e-Security Standards /guidelines for e-Governance	Two E safe documents / Standards to be released	Dec., 2011	
						6. Upgrade testing and Auditing facilities for security of Network, systems, applications and websites	Tools and skills to be upgraded for better services	March, 2012	
						7. Common Criteria scheme and testing facilities operationalised to take up new IT products	CC test and scheme infrastructure established for Indian industry	March, 2012	
						8. Progress of construction activity of STQC Building at Noida.	Construction activity of first phase to be completed.	Dec., 2011	
						9. Launch of Intermediary scheme for empanelment of external training provider organisations	Intermediary scheme launched. External organisations started offering STQC training programs to industry.	March, 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						10 .Human Resource Development by conducting DOEACC 'O' & 'A' level courses in NE region.	SC/ST/OBC/women / weaker section of society and unemployed youth of NE region will be benefited in Computer field.	March, 2012	
12.	STPI & EHTP	To promote exports of electronics & IT	-	2.50	167.00	This program is for promotion of exports and provide facility to Indian small and medium organization in export promotion events in the software and electronics sectors		On Continual basis	STPI is having 52 centers across the country and more than 10,000 companies are registered with STPI.

Sr.	Name of Scheme/	Objective/	·	2011-12		Quantifiable Deliverables/Physical	Projected	Processes/	Remarks/
No	Programme	Outcome	(Rs. in Non-	Plan	Comp	Outputs	Outcomes	Timelines	Risk Factors
			Plan	Budget	_				
13.	Electronic	The National e-	-	1087.31	-	Establishment of SWAN			
	Governance	Governance							State
	(e-Governance)	Plan (NeGP) is		Includes		To provide 2 Mbps data connectivity	implementation of	In general, it is envisaged that it	Government,
		an ambitious		Rs.		up to Block level in all States /UTs in	remaining States/	would take nearly	would
		initiative to		108.00		phases.	UTs SWANs.	completing full	leverage the
		provide both		crore for		As Part of the ongoing Scheme both		process of selection	SWAN as a
		horizontal and		NER,		leased line and wireless based network		of Network Operator for the SWAN. The	core network infrastructure
		vertical		Rs. 21.75		would be created across the country.		processes involved for identification of	progressively
		connectivity to		crore for				Network Operator	to provide
		transform the		SCSP and		The SWAN in 23 States/UTs have been		are: Selection of Consultant,	G2G services
		socio-economic		Rs. 92.42		made operational. These States/UTs are		Preparation of RFP,	and later G2C services (even
		landscape of		crore for		Himachal Pradesh, Haryana, Punjab,		vetting of RFP, floating of RPF,	below Block
		rural India and		TSP.		Tamil Nadu, Gujarat, Karnataka,		scrutiny of bids	Hqrs level
		simultaneously				Kerala, Jharkhand, Chandigarh, Delhi,		which includes, pre- qualification	when last
		bring significant				Puducherry, Tripura, Lakshadweep,		scrutiny, technical	mile
		improvement in				West Bengal, Sikkim, Chhattisgarh,		evaluation, financial evaluation,	connectivity would be
		the delivery of				Uttar Pradesh, Orissa, Maharashtra,		identification of	made
		public services				Assam, Madhya Pradesh, Bihar and		Network Operator conclusion of the	available)
		by enhancing				Uttarakhand.		contract with the	whose
		efficiency,						Network Operator etc. Further to this,	availability is
		transparency				Implementation of remaining		implementation of	presently confined to
		and reliability				States/UTs SWANs are at various		network by the designated Network	the location
		in government				stages of Implementation.		Operator take	of the offices
		services.						anywhere between 36 weeks to 52	providing
						Goa and Andaman & Nicobar have		weeks. After	these services
						opted out from the SWAN Scheme as		commissioning of the network, the	any where anytime over
						these States/UTs have the Local		Scheme envisages	the entire
						Network in place.		operation of the network for five	State.
								year.	
								All SWANs by August, 2011	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		Some of the key challenges in implementation of such a complex programme include low levels of ICT literacy in rural India and therefore the importance of assisted access becomes even more relevant. In light of this, besides ongoing programmes the declaration by the Hon'ble President to extend the existing CSC Scheme to cover all Panchayats				State Data Centre has been identified as one of the important element of the core infrastructure for supporting e-Governance initiatives of NeGP.  The Scheme has been approved by the Government at a total outlay of Rs1623.20 crores over a period of 5 years. It is proposed to set up Data Centers across 35 different States/UTs in the country during the 11 <sup>th</sup> Plan.  Three State Data Centres have been set up and operationalised till December 2010.	Secure and reliable data Repository sharable across various applications.  State Data Centre will help in providing efficient electronic delivery of G2G, G2C and G2B services.	It is expected that around 11 SDCs shall be made operational by March, 2011.  Additional 20 SDCs expected to be made operational by December, 2011.	The factors at the State level which may lead to delay in the execution of the project are:  • Delay in identifyin g and handing over the site to the selected Bidder.  • Delay in provisioning of raw power for the SDC.  • Delay in awarding LoI and Contract to the selected Bidder.

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	(Rs. in crore)			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
	_		Non- Plan	Plan Budget	Comp IEBR				Factors
		by setting up additional 150,000 CSC will have far reaching consequences because it mark a paradigm shift in accessibility to public services.				Common Service Centres (CSCs)  The Government had earlier approved a Scheme for establishing 100,000+ CSCs, primarily in rural areas of the country. These Centres are envisaged to be broadband Internet enabled are presently providing various available government and private services at the doorstep of the citizen. The Scheme is to be implemented in Public Private Partnership. The Scheme had been approved at a total cost of Rs 5742 crore with Government of India contribution Rs. 856 crore and State Governments contribution being Rs 793 crore. The balance funds is being invested by the private sector who is a key stakeholder in the CSC eco-system known as Service Centre Agencies (SCAs). As on 31.12.2010, 87,594 CSCs have been rolled out.	Complete the process of establishment of 100,000+ CSCs in the rural areas of the country by April - June 2011	June 2011	Majority of the remaining CSCs to be rolled out fall under difficult, inaccessible / and or areas having law and order/ naxalite problems. Therefore, the rollout for the remaining CSCs is a challenging task for the partners in the scheme i.e. the State Government s and the Service Center Agencies

Sr. No	Name of Scheme/ Programme	ogramme Outcome (Rs. in crore)			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk	
			Non- Plan	Plan Budget	Comp IEBR				Factors
									who are
									private
									sector
									entities
									entrusted
									with the
									responsi-
									bility of
									rollout and
									managemen
									of the CSCs
									All efforts
									are being
									made to
									overcome
									the
									impediment
									in
									implementa
									tion of the
									scheme.
									Besides the
									States are
									also being
									continually
									advised to
									create and
									facilitate
									more and
									more G2C
									services to

Sr. No	Programme Outcome (Rs. in cro		y 2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk	
			Non- Plan	Plan Budget	Comp IEBR				Factors
									benefit the rural population and there by achieve objective of the scheme.  It is expected that Broadband Connectivity would be provisioned by BSNL for all the CSCs by April-June 2011.

Sr.	Name of Scheme/	Objective/		2011-12		Quantifiable Deliverables/Physical	Projected	Processes/	Remarks/
No	Programme	Outcome	(Rs. in		T	Outputs	Outcomes	Timelines	Risk
			Non-	Plan	Comp				Factors
			Plan	Budget	IEBR				
						Bharat Nirman Common Service Centers (BN CSCs)  Government of India has now proposed	Sanction the CSCs	1	The proposed
						to upscale existing scheme of 1,00,000 CSCs to 2,50,000 lakh (2.5 lakh) CSCs so as to have one Bharat Nirman CSC at each panchayat. The proposal to setup additional 1,50,000 Bharat Nirman CSCs is under discussion as EFC Note and DPR have been prepared and circulated to the key Ministries / Departments / Offices for detailed deliberations on this subject. It is expected that the Cabinet approval for the Bharat Nirman CSCs would be obtained by end of March 2011.	proposals for all the States / UTs in the country.  Complete the rollout of 60,000	March	proposed scheme of Bharat Nirman CSCs under circulation / discussion has taken into consideration certain constraints namely availability of assured power / energy and Broadband Connectivit y, proportion of investment sharing between the SCA and VLE experienced in the phase
									in the phase I scheme of

Sr. No		Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
2,0	- 1 og - w		Non- Plan	Plan Budget	Comp IEBR			2 2222 222	Factors
									the CSCs. Therefore, in the proposal for BN CSCs, it is proposed to provide a fixed amount of revenue support to each CSC irrespective of the bid amount quoted by the prospective SCAs (bidders). This it is fel would facilitate speedy rollout of CSCs.
									Department of Telecommunications is already

me of Scheme/ ogramme	/ Objective/ Outcome	Outcome (R	Outlay 2011-12 (Rs. in crore)			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
		Non- Plan	Plan Budget	Comp IEBR				Factors	
								working out a plan to make available Broadband Connectivit y for the entire number of villages in the country. Accordingly, no special problem or difficulty as such is envisaged in provisioning of Broadband Connectivit y for the proposed 1.5 lakh BN CSCs.	

Sr.	Name of Scheme/	Objective/		2011-12		Quantifiable Deliverables/Physical	Projected	Processes/	Remarks/
No	Programme	Outcome		crore)	<u> </u>	Outputs	Outcomes	Timelines	Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
				Duager		Facilitating Services through CSC by enabling Implementation of State Portal, SSDG, eForm Application and Gap Infrastructure			
						The scheme of ensuring delivery of services through CSC by enabling the State Portal (SP), State Service Delivery Gateway (SSDG), Electronic form Application implementation and gap infrastructure under NeGP has been approved with a total outlay of Rs. 400 crore. It is envisaged that SP along with SSDG will be developed and implemented so that citizens are provided with outlets where they can access the services under a single interface mechanism in the form of the Portal.  • Out of the approved 30 States/UTs proposals, around 17 States/UTs have floated the RFP for the selection of the Implementing Agency for the project.  • Out of these 17 RFPs, 10 States/UTs have completed the bid process and are in the process of issuing the LoI to the selected Agency.  • 5 States/UTs (Tamil Nadu, Goa, Himachal Pradesh, J& K and UP)	citizens to download forms and submit their applications electronically with help of Electronic Forms hosted on the State Portal (SP) and routed through a common State Services Delivery Gateway (SSDG).  • Assured electronic delivery of the request from the citizen to the specified field office of the government department	<ul> <li>March 2012</li> <li>Selection of Implement ing Agencies by States</li> </ul>	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		y 2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR	_			Factors
						have already started the project implementation and the remaining would shortly start implementation.  • Empanelment of additional two Implementing agencies for the project is in progress.	of successful submission of		

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR	•			Factors
						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 for providing services to the citizens	e-District pilot in 16 States (41 Districts) already sanctioned.	Jan	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan	Comp IEBR				Factors
	1 Togi annie		Non-			e-Bharat:  The Department of Information Technology has been carrying out dialogue with World Bank for possible programmatic support for NeGP under the Bank's Development Policy Lending arrangement. The details are:  i. Development Policy Lending is rapidly-disbursing policy-based financing, which the Bank provides in the form of loans or grants to help a borrower address actual or anticipated development financing requirements. This lending aims to help a borrower achieve sustainable reductions in poverty through a program of policy and institutional actions that promote growth and enhance the well-being and increase	<ul> <li>i. Increased program efficiency and reliability of Citizen Services through greater coordination.</li> <li>ii. Improved Citizens' Engagement.</li> <li>iii. Expanded</li> </ul>	Following agreement between DEA/DIT and the World Bank to take forward this project initiative, intensive deliberations between	
							access to e-Services.  iv. Mainstreaming horizontal integration in NeGP.	DIT and World Bank are currently underway as part of preparatory activities for	
						ii. Bank's decision to extend Development Policy Lending is		this project including	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
	8		Non- Plan	Plan Budget	Comp IEBR	•			Factors
						based on an assessment of the country's policy and institutional framework—including the country's economic situation, governance, environmental/natural resource management, and poverty and social aspects.  iii. The Bank determines which of the agreed policy and institutional actions by the country are critical for the implementation and expected results of the program supported by the development policy loan.		identification of policy actions in the area of e-Governance for the purpose of this lending. On satisfactory completion of Bank's appraisal in terms of undertaking the policy actions as agreed, the loan funding will be approved and disbursed by the Bank.  Keeping in view the present status of the project	

Sr. No	Objective/ Outcome		y 2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
		Non- Plan	Plan Budget	Comp IEBR				Factors
							being preliminary in nature, while it is difficult to arrive at a precise time frame, DIT has been emphasizing completion of project preparatory activities and its formal approval by both GoI and the Bank during 2011–2012.	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
110	11 ogrunniv		Non- Plan	Plan Budget	Comp IEBR	- Surpuis	outcomes		Factors
						Capacity Building Scheme			
						The scheme is mainly for providing technical & professional support to State level policy & decision-making bodies and to develop specialized skills for e-governance at a total outlay of Rs. 313 crore for all the States/UTs.  Institutional Capacity Building for all the State/UTs.  1. Recruitment of SeMT for all States/UTs  2. Orientation of Political and Policy level personnel's (Leadership Meet)  3. Specialized training to project level officials of all States/UTs	Setting up of SeMT in States/UTs  Create awareness about e-Governance at policy and political level  Training to Sr. officials, policy maker & SeMT	Continuous activity Continuous activity Continuous activity	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	•	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
110	Trogramme	Outcome	Non- Plan	Plan Budget	Comp IEBR	Outputs	Outcomes	Timemies	Factors
						GIS Application  It is basically for the development of spatial decision support system. The activities:  1. Initiation of New project 2. Completion of some ongoing activities  Standards for e-Governance	Developing spatial decision support system	Continuous activity	
						Standards for e-Governance are a high priority activity, which will ensure sharing of information and seamless interoperability of data and e-Governance applications under NeGP. The details are:-  • Development and enhancement of Standards, Guideline, Policy in identified areas  • Development of standards in the new areas like Digital Preservation  • Publishing of standards on the website	<ul> <li>Ensure         Interoperability,         integration &amp;         seamless data         sharing of e-Gov         applications</li> <li>Release of         standards/         guidelines in         Interoperability         framework, Data         &amp; Metadata         phase II,         Security,         Enterprise         Architecture,         Quality &amp; other         new areas that         emerge</li> </ul>	Continuous activity	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	(Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						National e-Governance Service Delivery Gateway (NSDG)  NSDG is a middleware infrastructure, would act as standards based routing and a message switch de-linking the back end departments from the Frontend service access providers. This would facilitate standards based interoperability and integration to existing and new e-governance applications. The details are:-  • A pilot implementation has been successfully developed and tested. The National Gateway is implemented by CDAC and is Live since Aug'08  • Operations & Maintenance for 5 years  • To be plugged into various e-Gov projects like eBiz, Trademarks	This soft infrastructure which is based on standards will facilitate integration, interoperability & data sharing amongst various eGov applications.	Go-Live done in August, 2008. Launch of integrated NSDG in 2011-12.	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
	_		Non- Plan	Plan Budget	Comp IEBR				Factors
						R&D in e-Governance  To support research and development activities in various areas where R&D will bring direct benefit.	Applied R&D which would enable bringing innovative solutions which are cost-effective for the various e-Governance applications	Continuous activity	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
110	1 rogramme	Outcome	Non- Plan	Plan Budget	Comp IEBR	Outputs	Outcomes	Timemies	Factors
						GOI has initiated the setting up of an Open Technology Center through NIC aimed at giving effective direction to the country on Open Technology in the areas of Open Source Solutions, Open Standard, Open Processes, Open Hardware specifications and Open Course-ware. The OTC will provide the requisite support to the Standardization activity for e-Governance. The details are:-  • Creation and Operation of National Repository for OSS  • Creation of Knowledge Portal for the Identified OSS  • Promotional Activities(Exhibitions, Awareness Programs, Workshops) for Adoption of OSS  • Support Services for OSS	<ul> <li>Synergy in the overall components of Open Technology initiative that are being taken by various communities</li> <li>Support on Open Technology</li> <li>Support to the standardization activity for e-Governance.</li> </ul>	Continuous activity	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	•	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Assessment  This programme is basically the Impact Assessment Studies of e-Governance projects and the e-Readiness survey of India.  The impact could be in terms of quality of life, inclusion, access to information regarding benefits etc., economic in terms of either income generation or savings or even empowerment in terms of transparency, Right to information etc. An impact assessment of these e-initiatives will aid in gaining an empirical insight into issues relating to the dynamic and organic nature of governance such as how these projects are perceived and services accessed by the citizen and their effect on him as an individual as also on the politico cultural environment which sustains the project.  A comprehensive list of e Government projects will be prepared to gain a bird's eye view of e Government projects in the country.	<ul> <li>Impact         Assessment of 5         projects including         at least 1MMP</li> <li>Baseline         Assessment of 2         projects including         at least 1 MMP</li> <li>Detailed         Assessment of 2         projects in liaison         with relevant lineministry.</li> <li>E-Readiness         Assessment 2010-         11 to be         commissioned</li> </ul>	2011-2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	_	y 2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Awareness & Communication  National Awareness Campaign for NeGP  To create awareness among citizens about the initiative and its objectives  To build distinctive brand of NeGP to be utilized across Departmental communications  To motivate other external stakeholders  Workshops and Seminars at MMPs /State/Divisional level	<ul> <li>Create awareness at the national level through a campaign on various aspects/componen ts of NeGP in India.</li> <li>Collaterals reaching out to people across urban fringe and rural locations.</li> <li>To promote e-</li> </ul>	2011-2012	Factors
							governance among top level political and bureaucratic setup, industry, academia and NGOs.  • Awareness in states especially at grassroots level through outreach programmes.		

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
110	1 rogramme	Outcome	Non- Plan	Plan Budget	Comp IEBR	Outputs	Outcomes	Timemies	Factors Factors
14.	Cyber Security (incl. CERT-In, IT Act)	Security Policy, compliance & assurance	-	45.20 Includes Rs. 3.00 crore for NER	-	Improvement in security posture of organisations and enhancement in the ability of IT systems and networks to resist cyber attacks.	Implementation of Security Best Practices – ISO 27001 in Govt. & critical sector	Ongoing.  Status of compliance to be ascertained at periodic intervals.	
							Implementation of cyber security Crisis Management Plan (CMP) in Central Govt. Ministries/Deptt. as well as States/UT	Ongoing,  Periodic cyber security drills to be conducted to verify security posture and compliance. Sectoral Crisis Managemen t Plans to be developed	
							Cyber Security conformity Assessment Infrastructure (Product, Process &	Ongoing,  Empanelment activities to	

Sr. No		Objective/ Outcome	Outlay 2011-12 (Rs. in crore)			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
110	11 vgr minner		Non- Plan	Plan Budget	Comp IEBR		o uccomes		Factors
							People)	be conducted at periodic intervals	
							Establishment of Common Criteria (CC) product testing facility and certification scheme.	Ongoing,  Upgradation of facility to level 4 testing to be progressed	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		Security training – basic awareness as well as advanced				Trained manpower to implement techniques to secure IT infrastructure.	Specific training facilities, training modules and content development	Ongoing.	
						Trained manpower to collect, analyse and process digital evidence.	Awareness and training programmes to facilitate information sharing to deal with crisis situations.	Ongoing.  Training programmes on specific topics of cyber	
						Pre trained manpower will help in securing cyber space and check cyber crimes.		security to be organised	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
110	Trogramme	Outcome	Non- Plan	Plan Budget	Comp IEBR	Outputs	Outcomes	Timemies	Factors
		Security R&D for indigenous skills & capabilities				Development /enhancement of skills and expertise in areas of cyber security	Research and development of indigenous cyber security solutions, proof of concepts and prototypes and skilled manpower in areas of cyber security including  Crypto Analysis & Research Authentication Network & System Security - Mobile Monitoring & Forensics Vulnerability  through sponsored projects at recognized R&D organisations.	Formulation of proposals with special focus on malware research, mobile security, SCADA security, advanced cyber forensics & evaluation of proposals by Working Group  Periodic review of individual projects	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		Security incident – early warning and response (CERT-In)				Enhancing the security of communications and information infrastructure in the country	Rapid response, resolution and recovery  Security incident prediction, prevention and protection  Security assurance	Ongoing.  Continuous upgradation of CERT-In facilities and capabilities to counter growing cyber security threats.  Comprehensive threat assessment and attack mitigation by means of net traffic analysis and deployment of honey pots. Realtime Malware tracking and analysis with special focus on virus/bots.  Real time response to cyber security incidents  Alerts, Advisories and vulnerability Notes  Cyber Security Mock drills	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		Cyber laws for supporting E-Commerce and E-Governance activities				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.	Legal Framework that can effectively support growth of E-Commerce and E-Governance in the country.	Ongoing,  Draft of Rules pertaining to additional sections  Formulated and be finalized after public consultation	
							Operation and maintenance of Cyber Appellate Tribunal	Ongoing,  Awareness programmes for adjudicating officers to be organized. National, Regional and State level seminars proposed.	

Sr.	Name of Scheme/	Objective/	Outlay	2011-12		Quantifiable Deliverables/Physical	Projected	Processes/	Remarks/
No	Programme	Outcome	(Rs. in	crore)		Outputs	Outcomes	Timelines	Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
15.	Controller of Certifying Authority (CCA)	To promote use of electronic/digital signatures for e-governance and e-commerce applications.  Training of law enforcement agencies, judiciary and other users.	-	9.00	-	Promotion of use of Electronic/Digital signature certificates	Enhanced use of electronic/digital signatures for e-governance and e-commerce, banking applications etc. Training facilities, modules and content development	Continuing process	
16.	ERNET India	To provide network infrastructure to connect Educational & Research Institutes to each other as well as to rest of the world.	-	0.01	77.00	Upgradation of Technology & Capacity of ERNET Network & Extension to South Asian countries through TEIN3.	The TEIN3 PoP was co-located at ERNET PoP in Mumbai. The connectivity to TEIN3 has been migrated to NKN.	2 years	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		To carry out research in Collaboration with partner institutions at national and international level.				<ol> <li>Work on Mobile IPv6 Project and New R&amp;D Initiatives .</li> <li>Continuation of R&amp;D initiative with EU through EU-India Grid 2 and other projects.</li> </ol>	Interoperability of Grids, IPv6 deployment, future internet research & experimentation.	2 years	
		To implement turnkey ICT projects for targeted user domains.				1. Connecting Schools under KVS, JNV and ICT Vocational Centre for disabled. About 100 ICT Vocational centres are to be established and connected with internet. 300 JNVs have been provided Internet access.		2 years	
							Promotion of computer literacy among disabled children and their employability in ICT.		
						2. VSAT Connectivity with Internet/Intranet access & IT infrastructure at 200 KVKs of ICAR	To facilitate access and dissemination of information on agriculture to the farming community.	5 years	

Sr.	Name of Scheme/	Objective/	•	2011-12		Quantifiable Deliverables/Physical	Projected	Processes/	Remarks/
No	Programme	Outcome	_	crore)	T	Outputs	Outcomes	Timelines	Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
				3		<ul> <li>3. Setting up of centralized secure Data Centre and intranet of 274 ICAR institutes (A world bank funded project for ICAR)</li> <li>4. Continuation of Digital Library Initiatives.</li> </ul>	centralized Data centre for ICAR & its institutes for hosting agriculture related contents.  The equipment for creating data repository of digital library has been installed and data from IISc is being migrated for access through internet by	5 years 3 years	
17.	Promotion of Electronics / IT Hardware Manufacturing	Promotion of Hardware Manufacturing in the country.	-	2.83	-	<ul> <li>(a) To complete the recommendations of Appraisal Committee (AC) regarding applications for assistance received under Special Incentive Package Scheme (SIPS) including action for approval of Competent Authority</li> <li>(b) To set up a National Electronics Mission (NEM)</li> <li>(c) To introduce Modified Special Incentive Package Scheme and setting up of Electronics Manufacturing</li> </ul>	the targeted users.  These would encourage investment in electronics/IT hardware manufacturing sector	March 2012	(a) The actual manufactur ing units taking off the ground will depend on market conditions. Further, the disburseme nt of subsidy to the selected applicants

Sr.	Name of Scheme/	Objective/	•	2011-12		Quantifiable Deliverables/Physical	Projected	Processes/	Remarks/
No	Programme	Outcome	(Rs. in		٦ .	Outputs	Outcomes	Timelines	Risk
			Non-	Plan	Comp				Factors
			Plan	Budget	IEBR				111 1 1
						Clusters			will depend
						(4) T4 1-4:4-4 (Cl4:			on their
						(d) To set up a dedicated "Electronics Development Fund" for			attaining financial
						Development Fund" for promotion of Innovation, R&D, Indian			closure, the
						IP and development of Indian			NPV of
						Microprocessor			investment
						TVII OPTOCOSSOT			exceeding
									the
									threshold
									value and
									other
									conditions.
									(b) to (d)
									These will
									be subject to obtaining
									requisite
									approvals
									from the
									Government
18.	DOEACC	• To carry out	1.70	11.30	97.39	(a) DOEACC Scheme	IT Trained	July 2011 &	Academic
		HR				O/A/B & C Levels (Non-Formal Sector	Professionals will	January	Recognitio
		Development		Includes		of IT Education & Training) Half	be available for the	2012	n of B&C
		in		Rs. 3.00		Yearly Examinations.	industry for		level by
		Information		crore for		-15,000 students are expected to	employment and		AICTE &
		Electronics &		NER		qualify at various Centres of courses	will be contributing		increasing
		Communicati				during the year 2011-12.	to the economy.		acceptance
		on							for
		Technology							DOEACC

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		(IECT).  • To produce quality professionals through Long Term & Short Term Courses in the Formal & Non-Formal Sector.						Conduct Examinatio n & Issue Certificates	courses may increase the employmen t prospects of O/A/B/C qualifiers.  Acceptabili ty of the DOEACC qualifiers by the Industry.

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						(b) DOEACC Centres to conduct training for Formal Sector Long Term Courses (M.Tech, MCA, BCA, PGDCA, Diploma in EE & CS etc.) – 1,800 students.	-do-	Annual / Semester wise exams	M. Tech & MCA are AICTE approved courses. BCA and PGDCA courses are affiliated to respective State / Universitie s. Diploma courses are approved by_AICTE and State Technical Boards.
						To conduct training for Non-Formal Sector Long Term Courses (DOEACC O/A/B Level courses, DOEACC Bioinformatics O/A Level courses, Hardware Courses at O/A Level – 14,500 students.	-do-	Annual / Semester wise exams	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		y 2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Training for Short Term courses of duration less than one year – 12,000 students.	-do-	Batch-wise exams	Industry Recognitio n - Efforts are made to create tailor made courses as per the changing need of industry to create manpower with employable skills.
						ITES/BPO Programme – 2000		Batch-wise exam	

Sr.	Name of Scheme/	Objective/		2011-12		Quantifiable Deliverables/Physical	Projected	Processes/	Remarks/
No	Programme	Outcome	_	crore)	1 .	Outputs	Outcomes	Timelines	Risk
			Non-	Plan	Comp				Factors
			Plan	Budget	IEBR				
						IT Literacy Programme (CCC) – 95,000		4 monthly exams and on every 1 <sup>st</sup> & 3 <sup>rd</sup> Saturday of a month on demand basis.	Few State Governmen ts & Department s of Central Govt. has already recognized CCC Certificate as the minimum IT Literacy qualificatio n for job purposes as well as
									promotions
19.	Manpower Development (including Skill Development in IT)	E-learning	-	Includes Rs. 25.00 crore for NER, Rs.2.55 crore for SCSP and Rs.10.85 crore for TSP.	-	Design and Development of Service Oriented Architecture based Standards Compliant e-Learning Framework with Personalized Learning Features - to develop an intelligent e-learning system catering to personalized learning complying with standards, using technologies like service oriented architecture (SOA), web mining and Rich internet applications (RIA).	E-learning standard compliant tool with support to Personalized learning  An integrated conversion tool for creating SCORM compliant content Integrated video streaming capability	Dec., 2011	promotions

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Design and Development of a Framework for Adaptive Instruction (FAI) — to deliver instruction in personalized manner, to set up FAI server, to provide Indian language support.		Feb., 2012	
						Video Compression and Decompression for E-Learning - to improve latency and performance of video compression and decompression techniques based on standard H.264 for lower bandwidths (below 128 kbps) and to provide better quality of video and audio at lower bandwidths and lesser latency for e-Learning.	To improve codec standard H.264 or to develop video compression and decompression (codec) standard for better quality of video such as 128 kbps.	Dec., 2011	
							A setup for e- Learning using the proposed standard		
						Online Labs (Olabs) for School Lab Experiments — to offer a joyful interactive learning experience for the student and to provide an environment to extend, improve, refine and assist the learning and/ or experimentation process. *	<ul> <li>Lab Framework for experiments</li> <li>Self evaluation through Quiz &amp; experiments</li> <li>To train subject teachers</li> <li>Pilot testing by students.</li> </ul>	Dec., 2011	

Sr.	Name of Scheme/	Objective/		2011-12		Quantifiable Deliverables/Physical	Projected	Processes/	Remarks/
No	Programme	Outcome		crore)	1	Outputs	Outcomes	Timelines	Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
			Plan	Budget	IEBR	Adaptable e-Learning Accessibility Model for the Disabled - to carry out R&D in the area of providing a solution for accessibility for the disabled in the domain of E-Learning that would result in development of tools and products in the area of accessibility from the emerging and promising technologies.  *  Content generation, adaptation and distribution in m-learning environment for Mobile phone applications - To identify and develop mobile learning content and to adapt and render the developed content for mobile phones suitable for finishing school students.	Development of Accessible E-Learning Framework     Launch of E-Learning web Portal with the support of local language     Awareness and training programmes and workshops to be organized     Mobile learning content suitable for finishing school students in the area of soft skill, data structure and C	Dec., 2012  Dec. 2011	
						Also to develop mobile video streaming application and to deploy and distribute the mobile learning content to the students of finishing schools*	programming and Entrepreneurship  Software for mobile video streaming application  M-Learning environment set up for students of finishing schools		

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	(Rs. in crore)			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
	· g- w		Non- Plan	Plan Budget	Comp IEBR		<b>3 4440 1140</b> 2		Factors
		Human Resource Development in the country in the area of Information Security.				Fresh project proposals for E-Learning in the area like development of authoring tools, Video Compression/decompression techniques, developing content independent of Platform and environment, Personalized Learning and content management system etc. will be invited from various academic institutions, R&D labs etc. These projects will be placed before Working Group for deliberations/recommendations before approval by the competent authority.  • Launching/ continuation of Information Security Curriculum at B.Tech/ M.Tech/ Ph.D levels and train System Administrators;  • Establishment 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 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay 2011-12 (Rs. in crore)			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		Scheme of Manpower Development for the Software Export Industry				<ul> <li>Creation of course curriculum, Contents and Question Bank</li> <li>Generation of quality faculty and mentors</li> <li>Upgradation of skills of graduates to make them employable</li> <li>Augmentation of infrastructure facilities for ICT training to enhance the intake capacity</li> <li>Expansion of state-of-the art facility for advanced (industry related) IT training programmes</li> <li>National On-line Test System for Graduate Engineers in Information Technology</li> </ul>	Human Resource Development in the area of Information Technology for software export industry  Generation of Mentors/quality Faculty  Enhancement of quality of ICT education in Engg. Colleges  Virtualization of Technical Education in IT  National On-line Test System for Graduate Engineers in Information Technology	March 2012	

Sr.	Name of Scheme/	Objective/	•	2011-12		Quantifiable Deliverables/Physical	Projected	Processes/	Remarks/
No	Programme	Outcome	(Rs. in Non-	crore) Plan	Comp	Outputs	Outcomes	Timelines	Risk Factors
			Plan	Budget	_				raciois
		Human Resource Development in the North- Eastern Region				<ul> <li>Regional Institutes for e-Learning and Information Technology (RIELIT) at Kohima (Nagaland) and Agartala (Tripura)</li> <li>New DOEACC Centres at Shillong (Meghalaya), Gangtok (Sikkim) and Itanagar (Arunachal Pradesh)</li> </ul>	Create skilled manpower in the area of Computer Science and Information Technology and related disciplines for making available industry ready professionals and also cater to the needs of the respective state and the region as a whole.	March 2011 (RIELIT Kohima)  March 2012 (RIELIT Agartala)  Dec 2012 (DOEACC Shillong)  July 2013 (DOEACC Gangtok)  January 2014 (DOEACC Itanagar)	

Sr. No	Name of Scheme/ Programme	e/ Objective/ Outcome	Outlay 2011-12 (Rs. in crore)			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		Digital Library Initiatives –				On-going Projects			
						Digitize:			
		• Digitization / preservation				- 8-10 Million pages	Strengthen Country's identity	March 2012	
		and web				Providing bandwidth connectivity to	by digitally		
		enabling of				IISc., IIIT, Hyderabad and C-DAC,	preserving the		
		Copyright free data				Noida	national heritage and intellectual		
		available in				Hosting the DLI web site for accessing			
		physical form				the digitized data	-		
						New Projects			
						Digitize around 20-25 Million pages	Strengthen Country's identity by digitally preserving the national heritage and intellectual output	March 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
20.	Facilitation of Setting-up of Integrated Townships  (e-Infrastructure)	Facilitation of setting up of Integrated Investment Regions (ITIRs), IT/ITES units in the ITIR region	-	0.10	-	Information Technology Investment Regions (ITIRs) set up in different States/UTs	Establishment of high quality infrastructure for promotion of IT and Electronics Hardware Manufacturing industry.  Creation of new employment opportunities for youth skilled in IT & Electronics.	These are long term processes requiring 5-15 years	Adequate industrial units not being set up in ITIRs in initial years.
		Setting up of Bio-IT research and training facility to create research and training facility, IPR/ entrepreneurshi p development in the area of genome sequencing, DNA and molecular Biology				Research & Training facility in the area of genome sequencing, DNA and molecular Biology	Research and training facility, IPR/ entrepreneurship development	This is a 5 year duration project initiated in March 2010	There may be global competition with better reasearch facilities being set up outside India

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
	Trogramme	Outcome	Non- Plan	Plan Budget	Comp IEBR	Outputs	Outcomes	Timemes	Factors
		Setting up of ICT Vocational Centers for Physically challenged children Phase II. The project will help differently abled children to acquire ICT skills enabling them to seek employment and earn livelihood.				50 ICT vocational centers have already been set up in 17 different States/UTs. The equipment made available for ICT training includes Talking software, Screen Magnification, Talking Typing Teacher and Braille Embosser, OCR and Scanner, CCTV Print Magnifier device with TV for blind, and Assertive Listening Device and Hearing Amplification device for deaf. LAN & Internet connectivity is also provided.	The project will help differently abled children to acquire ICT skills enabling them to seek employment and earn livelihood.	50 ICT Vocational Centers have been commission ed in 17 different States/UTs by Nov 2010. Remaining 50 centers from remaining States/UTs are to be commission ed by March 2011.	Sustainabili ty after two years is to be ensured by the respective States/UTs

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	_	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
	Trogramme	Outcome	Non- Plan	Plan Budget	Comp IEBR	Curputs	Outcomes	Timemes	Factors
		Training of educators, Teachers, parents for rehabilitation of mentally retarded Children to set up Interactive ICT training Centers and contents for training of Trainers, educators, parents for rehabilitation of mentally retarded children.				Technology enablement to enhance interaction of trainee/education and children with disabilities and improve their learning abilities.	Skill set enhancement of children with disabilities and creation of opportunities for their rehabilitation through gainful employment.	The equipment has been identified and ordered and would be installed/commission ed by June 2011.	Sustainability is to be ensured by States/NGOs/VOs

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	Outlay (Rs. in	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
		Pilot project for setting up infrastructure for establishment of e-class room and e-				ICT Hardware and Software for ICT Skill Development in the School Children at below Secondary Level	ICT skilled young Students from Schools in Rural Areas	2010- 2013	Sustainabili ty is assured by the State of Rajasthan through an MOU
		teaching Hub using EDUSAT				Research development and development of system level services for hosting education Cloud application, set up Cloud test bed for research and collaborative international test bed efforts	<ul> <li>Cloud educational application</li> <li>Cloud services for teaching</li> <li>Cloud test bed</li> </ul>	2 ½ year	Being Research oriented project the time lines may slightly vary
21.	Headquarter (Secretariat and Building)	<ul> <li>Secretariat &amp; Bldg.</li> <li>Foreign Trade</li> <li>Exhibitions</li> <li>Others - Seminars/ Workshops</li> </ul>	28.91 3.10 0.80 0.50	39.98	-	<ul> <li>Secretariat and Plan Schemes</li> <li>CST re-imbursement of STPI units</li> <li>To organise exhibitions abroad for promotion of Trade</li> </ul>	<ul> <li>To run office smoothly.</li> <li>Export promotion</li> <li>Trade promotion</li> <li>Development of electronics in IT</li> </ul>		

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
	8		Non- Plan	Plan Budget	Comp IEBR	•			Factors
22.	National Informatics Centre (NIC)	Provide wide range of E-Governance infrastructure and services in the Country at various levels right from Central Government, State Governments to district administrations in their initiatives towards providing good Governance to the people.		754.00 Includes Rs. 75.00 crore for NER, Rs. 22.62 crore for SCSP and Rs. 67.86 crore for TSP.		Network and application security audit, Co-relation of security events, help desk facility for securing applications	Enhanced security of NICNET resources and services.	March, 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	(Rs. in crore)			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Certifying Authority			
						Setting up of new Registration Authorities (RA)	DSC     Subscribers will     be serviced by     new RA office     in selected     states     facilitating     efficient     services.	March, 2012	
						Enhancement of CA services for promotion of e-governance.	Augmentation     of CA services     to cater to     specialized     applications.	March, 2012	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome		2011-12 crore)		Quantifiable Deliverables/Physical Outputs	es/Physical Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Computerization of Land Records			
						Integrated model of Land Records, Registration and Cadastral maps as per the guidelines.	• Integrated system will be operational in the West Bengal, Orissa.	December 2011	
						Customization of Bhunaksha	• The Bhunaksha will be implemented in Tripura, Haryana, Orissa.	March 2012	
						Training to State level institutions including NIC-LRPR co-ordinators on NLRMP	The Training will enhance the capacities of state Land Revenue officials and NIC officers on latest digitization and survey technology.	August 2011	

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	(Rs. in crore) Ou			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						Videoconferencing infrastructure development			
						Web based HD VC system	<ul> <li>High definition         VC facility         would be         provided over         the desks of         users across         NICNET for         easy to use and         effective in         communication.</li> </ul>	July 2011	
						Augmentation of VC infrastructure at States and districts.	It will replace all old Standard Definition VC systems with latest state-of-art High Definition Group Videoconferencing system.	Sept 2011	

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Sr. No	Name of Scheme/ Programme	Objective/ Outcome	•	2011-12 crore)		Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						<ul><li>India Image</li><li>Augmentation of Comprehensive</li></ul>	• Enhanced and	March,	
						WWW Service	State-of-the-Art features in web hosting services. It is a continuous activity.	2012	
						Website Design and Development Infrastructure, Training/ workshops	• To enable Government department in establishing citizen centric up to date and universally accessible websites.	December, 2011	
						Remote Sensing & GIS			
						<ul> <li>GIS ICT infrastructure.</li> <li>Deployable GIS data</li> <li>Raster as well as Vector GIS Services over NICNET for E-</li> </ul>	Customized GIS data products and services over NICNET	March, 2012	
						governance and planning.	for E- governance & Planning		

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	(Rs. in	2011-12 crore)	T	Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
			Non- Plan	Plan Budget	Comp IEBR				Factors
						<b>Utility Mapping Project</b>			
						Base map updation for roads of North Delhi	Updated road map will help in secured planning	March, 2012	
						Training on GIS software and system administration.	• Trained manpower will use the system effectively and at their own i.e. without NIC's assistance.		
						The existing business process will be studied and gaps will be identified and filled	• S/W will be customize as per the requirement of Utility Agencies for better management of operation & Maintenance services.	March, 2012	

Programme	Outcome	(Rs. in crore) Ou			Quantifiable Deliverables/Physical Outputs	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
		Non- Plan	Plan Budget	Comp IEBR	<b>,</b>			Factors
					<ul> <li>Establishment of data centre at Delhi</li> <li>Phase II expansion of National Data Centre at Hyderbad.</li> <li>Setting up National Data Centre at Bhubaneswar</li> </ul>	To meet growing demand of web based applications.	December 2011	
					<ul> <li>High Speed Terrestrial Circuits</li> <li>Enhancement of Terrestrial bandwidth of State Capital and District connectivity</li> <li>Secondary link from different NLD at key districts</li> <li>Some of the districts will have additional STM1 channelized connectivity to extend last mile connectivity</li> </ul>	• Increase of connectivity capacity and Bandwidth. Improve reliability leading to improved e-gov.	March, 2012	
					<ul> <li>NICNET International Gateway project</li> <li>Gateway Bandwidth will be upgraded to 10 Gbps</li> </ul>	efficient	Oct, 2012	
						Phase II expansion of National Data Centre at Hyderbad.  Setting up National Data Centre at Bhubaneswar  High Speed Terrestrial Circuits  Enhancement of Terrestrial bandwidth of State Capital and District connectivity  Secondary link from different NLD at key districts  Some of the districts will have additional STM1 channelized connectivity to extend last mile connectivity  NICNET International Gateway project  Gateway Bandwidth will be	Phase II expansion of National Data Centre at Hyderbad. Setting up National Data Centre at Bhubaneswar  High Speed Terrestrial Circuits  Enhancement of Terrestrial bandwidth of State Capital and District connectivity  Secondary link from different NLD at key districts  Some of the districts will have additional STM1 channelized connectivity to extend last mile connectivity  NICNET International Gateway project  Gateway Bandwidth will be  Enhanced and	Phase II expansion of National Data Centre at Hyderbad. Setting up National Data Centre at Bhubaneswar  High Speed Terrestrial Circuits  Enhancement of Terrestrial bandwidth of State Capital and District connectivity Secondary link from different NLD at key districts  Some of the districts will have additional STM1 channelized connectivity  NICNET International Gateway project  Gateway Bandwidth will be upgraded to 10 Gbps  Enhanced and efficient availability of

Sr. No	Name of Scheme/ Programme	Objective/ Outcome	-	2011-12 crore)		Quan Outp	tifiable Deliverables/Physical	Projected Outcomes	Processes/ Timelines	Remarks/ Risk
110	1 rogramme	Outcome	Non- Plan	Plan Budget	Comp IEBR	_ Outp	uts	Outcomes	Timemies	Factors
23.	National Knowledge Network (NKN)	The objective of the National Knowledge Network is to bring together all the stakeholders in Science, Technology, Higher Education, Research & Development, and Governance (with speeds of the order of gigabits per second coupled with extremely low latencies; through PoPs in the respective institutions/ organisations).		250.00 Includes Rs. 25.00 crore for NER, Rs. 7.50 crore for SCSP and Rs. 22.50 crore for TSP.	_	i. ii. iv. v. vi. vii. viii.	All the core links of NKN would be 10G. The complete setup would then be operating on NKN CORE infrastructure.  NKN Links to reach the districts and expand the CORE with Distribution layer.  Connect the rest of the Institutes to NKN (1000 Approx)  Setting-up of full DATA CENTRE at Shastri Park  Setting-up of CALL-CENTRE for the NKN  Facility management Support at all the locations.  IPv6 numbers from APNIC for the complete network  IPv6 implementation in full scale	The output of the project will be a high capacity countrywide Infrastructure at education & research Institute level, which will be available 24x7 to support education and research application, and other application as envisaged by these institution which require very high bandwidth. A high speed data communication network would be established, which would interconnect Institutions of higher learning, research & Governance.  The NKN will facilitate the knowledge	End of FY 2011-12	

Sr.	Name of Scheme/	Objective/	•	2011-12		Quantifiable Deliverables/Physical	Projected	Processes/	Remarks/
No	Programme	Outcome	(Rs. in	crore)		Outputs	Outcomes	Timelines	Risk
			Non-	Plan	Comp				<b>Factors</b>
			Plan	Budget	<b>IEBR</b>				
							sharing, collaborative research, countrywide classrooms (CWCR) etc. and help the country to evolve as Knowledge Society. This will		
							also contribute in socio-economic		
							activities of the country indirectly.		