

E-Infrastructure R&D projects initiated during XIIth Plan period

Project Title	Setting up the Eduroam Services in India
Executive Agency:	ERNET India
Principal Investigator:	Shri. Praveen Misra
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Project Objectives:	<ul style="list-style-type: none"> • To implement the Eduroam services in India. • Eduroam (education and roaming) allows users (researchers, academicians, teachers, students, professionals, etc) to securely access the Internet from any Eduroam-enabled institution either nationally as well as internationally from the premises of any of the participating institutions.
Achievements/ Outcome	<ul style="list-style-type: none"> • An EDUROAM service in India was formally launched by Secretary, DeitY on 5th Sept, 2013. • Two National levels EDUROAM proxy authentication server were set-up. One server is placed at Ajmer which will be shifted to Delhi and second server is placed at Bengaluru. • International roaming authentication testing was done with Netherland, Japan & Australia etc. • Institutional RADIUS servers were set-up and tested at 30 institutes. At 10 institutes, the RADIUS servers are under commissioning. • EDUROAM Indian portal has been set-up to provide information, technical inputs, connected Institutions and guide users to hook on using various devices.
Start Date Duration (in months):	May 2012 (36 months)
Status of Project:	Ongoing

Project Title	Setting up Intranet of NIELIT and Smart Virtual Class Rooms at NIELIT Centers for quality in remote areas-NIELIT with ERNET India
Executive Agency:	NIELIT and ERNET India
Principal Investigator:	Shri. Praveen Misra
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Project Objectives:	<ul style="list-style-type: none"> • Setting up of a MPLS network of NIELIT to carry out multicasting, videoconferencing, video streaming and virtual Classroom sessions with the help of ERNET. • Connecting all the NIELIT Centers in the country with the focus to improve the quality of education to students from remote/rural part of the country, passing out of the centers of NIELIT and its

	accredited centers.
Achievements/ Outcome	<ul style="list-style-type: none"> • Video-Conferencing set-up completed in Phase 1 of the project at 7 NIELIT centers plus Head Quarter. At NIELIT headquarter the Tele-presence solution is installed. • Deployment of smart virtual classrooms to be completed in Phase 2 of the project at 9 NIELIT locations. • The project duration is extended till 31st Oct , 2014.
Start Date Duration (in months):	22 nd June 2012 24 months + 4 months(extension)
Status of Project:	Ongoing

Project Title	Setting up ICT Centres in 250 schools in rural areas of Rajasthan(districts of Ajmer & Jaipur)
Executive Agency:	ERNET India
Principal Investigator:	Shri.B.B Tiwari
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Project Objectives:	<ul style="list-style-type: none"> • To setup ICT Centers in schools in rural areas. • To empower student with ICT Skills. • To provide connectivity to access information pertinent to their lives.
Achievements/ Outcome	<ul style="list-style-type: none"> • ICT solution proposed for these centers would include 5 Desktop PCs with anti-virus software and MS-Office along with printer and Scanner. • LAN installation, electric cabling, computer furniture set-up. • 30KVA Generator Set shall be provided at 30 centers. • Connecting the centers on Broadband VSAT or RF/Wimax of 128 Kbps to 2 Mbps speed.
Start Date Duration (in months):	Dec 2010 36 months + 8 months(extension)
Status of Project:	Ongoing

Project Title	Proposal for Building a Knowledge Web Repository at the SIEP-Trivandrum jointly with SPACE-Trivandrum
Executive Agency:	The State Institute of Encyclopaedic Publication
Principal Investigator:	Dr. M.T Sulekha
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Project Objectives:	<ul style="list-style-type: none"> • Development of a metadata management system using free and open source software tools like DSpace. • Project will setup a content registry which can provide persistent identifiers for Malayalam content. • Framework aims to be a distributed one where other content providers like State institute for archives, universities can join in and make the system easier to manage. • A Media Wiki based system will act as front-end for published content and integrated with a metadata repository.
Achievements/ Outcome	<ul style="list-style-type: none"> • Created Metadata Framework. • Developed Metadata Input Software. • Designed the QDC Metadata Input sheet. • Prepared QDC Metadata for the seven volumes. • Uploaded the QDC Metadata.
Start Date Duration (in months):	1 st June 2011 18 months + 8 months(extension)
Status of Project:	Ongoing

Project Title	Setting up of Bio-IT Research and Training Centre” at Institute of Bio-Informatics & Applied Biotechnology(IBAB), Bangalore
Executive Agency:	IBAB
Principal Investigator:	Dr. Binay Panda
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URL:	http://www.ibab.ac.in/
Project Objectives:	<ul style="list-style-type: none"> • High-end skill development through training in Bio-IT. • Technopreneurship incubation • R&D and Intellectual Property (IP) creation.
Achievements/ Outcome	<ul style="list-style-type: none"> • One of the first institutes in India to sequence, analyze and interpret complex genome and transcriptomes from a higher organism (neem genome and transcriptomes). • One of the two centers in the country to work on comprehensive sequencing of oral cancer samples. • One of the few centers in the country to do next generation sequencing laboratory assays in the lab, produce good quality sequence data, perform data analysis, interpret sequencing data and setting up analytical pipelines. • One of the first in the country to train students and scientists on next generation sequencing data generation, analysis and interpretation.
Start Date Duration (in months):	31 Mar 2010 (60 months)
Status of Project:	Ongoing