

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

1.

Project Title	Setting up Intranet of NIELIT and Smart Virtual Class Rooms at NIELIT Centres for quality in remote areas-NIELIT with ERNET India
Executive Agency:	NIELIT and ERNET India
Principal Investigator:	Shri.Praveen Misra
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Email:	praveen.misra@eis.ernet.in
URL:	http://www.eis.ernet.in/
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.
Outcome	<ul style="list-style-type: none"> • Video-Conferencing set-up completed in Phase 1 of the project at 7 NIELIT centres 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	22 nd June 2012
Duration (in months):	24 months + 5 months+4 months(extension)
Status of Project:	Completed on 28 th February 2015

2.

Project Title	Setting up the Eduroam Services in India
Executive Agency:	ERNET India
Principal Investigator:	Shri. Meherban Singh
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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.

Outcome	<ul style="list-style-type: none"> Monitoring server for members of radius servers in India has been created. Information system has been designed using mailing list which will help in eduroam workshop and other eduroam technical information. Log Server for keeping the access log of all the users connected has been created. Database server having information related to each user in eduroam setup of India has been created. Helpdesk and Trouble Ticketing Systems(TTS) for eduroam users has been created.
Start Date Duration (in months):	May 2012 36 months + 24 months(extension)
Status of Project:	Completed on 30 th April 2017

3.

Project Title	IPv6 Training Program for Staff of Government/Ministries and Institutions.
Executive Agency:	ERNET India
Principal Investigator:	Shri.Praveen Misra
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URL:	http://www.eis.ernet.in/
Project Objectives:	<ul style="list-style-type: none"> The objective of the proposal is capacity building in the area of next generation Internet protocol IPv6 to enhance adoption and deployment of IPv6 specially in Government organizations and associated institutions.
Outcome	<ul style="list-style-type: none"> System was configured based on IPv6 for the purpose of providing training to staff of Government Organization and other institutions for their different training and analyzing needs in the field of IPv6. 400 staff from Central/State Government/Ministries and related organizations were trained on use and deployment of IPv6 free of cost. Documents and training material on IPv6 were prepared.
Start Date Duration (in months):	22 nd July 2014 (36 months)
Status of Project:	Completed on 13 th February 2017

4.

Project Title	Setting up of Wi-Fi at Allahabad University
Executive Agency:	ERNET India
Principal Investigator:	Mr. Meherban Singh
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Project Objectives:	<ul style="list-style-type: none"> ● Wi-Fi LAN creation through powerful combination of wired & wireless network technologies enable flexibility, resiliency, ease of access to information, data & services by any Wi-Fi enabled device. ● Highly available, secure, scalable & redundant Centralized Wireless Controller Management & Authentication systems at AU, Central site. ● Cost-effective network setup with centralized Wireless controller for better management, ease of configuration, dynamic environments & with increased flexibility. ● Coverage of around 70 Departments/faculty/buildings/blocks in the campus including Hostels and would serve over 25000 faculty/teachers/students/staff/etc. ● Enabling high speed wireless access to Internet & Intranet resources to campus employees, staff, faculty, teachers, students, official visitors, guest on any-time anywhere basis across AU campus. ● Improvement of delivery of student-centric services, employee performance & efficiency and real-time access to information, learning material & data. Enable faster and more efficient decision-making at all levels.
Outcome	<ul style="list-style-type: none"> ● A secure Wi-Fi enabled Campus Network in Allahabad University. ● Highly available, scalable & redundant Centralized Wireless Controller, Management & Authentication system at NKN/ERNET data center. ● Coverage of around 70 Departments/faculty/buildings/blocks in the campus including Hostels and would serve over 25000 faculty/teachers/students/staff/etc. ● Enabling high speed wireless access to Internet & Intranet resources to students, faculty & staff on any-time anywhere basis. ● Improved Education and learning environment for students and teachers.
Start Date Duration (in months):	28 th March 2015 (36 months)
Status of Project:	Completed on 27 th March 2018.