



A graphic featuring a satellite dish pointing towards a blue globe with a grid pattern, all enclosed in a green triangular frame. The globe shows continents in white and oceans in blue. The satellite dish is black and mounted on a metal structure. The entire graphic is set against a light green background with faint, stylized green shapes.

An Autonomous Scientific Society
Under Ministry of Electronics and Information Technology
Government of India



ANNUAL REPORT 2017-18

ERNET INDIA

**An autonomous Scientific Society under
Ministry of Electronics and Information Technology, Government of India**

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PREFACE

Education and Research Network of India, or ERNET India, is an autonomous scientific society under the Ministry of Electronics and Information Technology. Not only ERNET has made a significant contribution to the emergence of networking in the country, it brought internet to India and supports building up national capabilities in the areas of networking, especially in protocol software engineering and tools for collaboration. ERNET has developed a great network over the years, that provides numerous services to the education and research community, i.e. the intellectual segment of the Indian Society, while also supporting the creation of pool of strongly trained manpower.

ERNET is the largest nationwide terrestrial and satellite network with point of presence located at the premiere educational and research institutions in major cities of the country. This remarkable growth is underpinned by a set of new technology levers that have redefined how services are being organized, delivered and consumed and have further helped in addressing the current and evolving demands of a digital consumer. ERNET's focus isn't limited to just provide connectivity, but to meet the needs of academic and research institutions by providing Training, Project management guidance, IT consultancy, Global roaming services etc. Other value added services are Video Conferencing, Domain registration and CUG services. Moreover, ERNET tries to keep pace with the growing technologies like Internet of Things (IoT). Hence, ERNET has been working with various government institutions to see how IoT can bring efficiency in current work. Additionally, ERNET is to keep pace with new methods of networking in technological directions.

Several projects have been carried out by ERNET with and without the involvement of other organizations. With Internet of Things on rise, ERNET supported Meity in policy formulation on IoT where ERNET worked with NASSCOM in Public Private Partnership (PPP) mode to set up a Center of Excellence in IoT to not just jumpstart innovation, but to also nurture and promote start-up culture in India. MeitY has taken further steps to add three more CoE's besides CoE-IoT Bengaluru in various states across the country viz. at Gurugram (Haryana), Gandhi Nagar (Gujarat) and Visakhapatnam (Andhra Pradesh). Everyone deserves the access to technology, regardless of their special abilities and ERNET took a huge step towards the digital advancement and making web content available to all citizens, under Accessibility India Campaign, by launching first 100 accessible-to-all websites for different State Governments, with funding from Department of Empowerment of Persons with Disabilities (DEPwD), complying to GIGW and WCAG2.0 (A, AA Level).

The Digital India Program is in full force, and for the same reason, Wi-Fi has become a growing need for the public globally, especially among students, staff and even visitors/guests. Meity, in consultation with MHRD identified 5 universities namely Allahabad, Pune, Osmania, NEHU and Utkal University, and directed ERNET to set up Wi-Fi enabled campus networks. This will enable access to the cyber world through smart-phones, tablets, laptops and other Wi-Fi enabled devices. The Wi-Fi project (Phase-1) has been implemented in Osmania and Utkal Universities and thousands of Wi-Fi users have been using the same for educational purposes.

To grow technologically, global collaborations are as important as domestic projects. As a part of the project collaboration under APAN (Asia Pacific Advanced Network) Asi@Connect initiative, ERNET India has been participating in tech culture fusion platform including training programs and cyber performances. The project is 18 months long, and was initiated in July 2017, with a total of 6 beneficiary countries- India, Vietnam, Malaysia, Bangladesh, South Korea and Pakistan.

With global connections, the field of education and research should also be affected. Collaborating with international partner, eduroam was launched in India by ERNET a few years back to enable free Wi-Fi roaming services globally. Over 230 Institutes have been added in the list of globally connected institutions and have been serving educators, students and researchers ever since. Along with that, a project- Li-Fi pilot, with collaboration with IIT Madras has been initiated. Its objective is to study Li-Fi as an alternative communication technology and perform visible light communication experiments. Along with this, Li-Fi opportunities are out there to be explored in different deployment scenarios like smart buildings and cities.

Being an exclusive registrar for Domain Services for education and research under .in registry- edu.in, res.in and ac.in, ERNET has processed over 13307 domains since it was automated. Currently, ERNET is also registering विद्या.भारत (vidya.bharat) domains. To improve the growth of internet, the network needs to be constantly improved. The VSAT network in C-Band using GSAT satellite for providing internet and intranet access to education and research institutions is also operated by ERNET. The Master Earth Station, located in Bengaluru, is functioning as the Network Operations Center (NOC). Also, Internet Protocol version 6 is the new protocol on which the Internet will expand since it offers nearly unlimited number of IP addresses to connect devices to the Internet. However being a very new technology, adoption has been really slow, whereas the emerging technologies like AI will require IoT which will require IP addresses, putting further pressure on IP numbers' availability. ERNET India which spearheaded the research in network and related technologies has over a decade of experience in IPv6 networks and application.

ERNET India is jointly working with Indian Institute of Science (IISc), Bengaluru to setup an experimental LoRaWAN network. Under this, the plan is to make the preliminary development

and management tools that is robust and demonstrate with at least one Smart City application on the test-bed.

While looking forward to the growth of the nation, it's not limited to the students and staff, it also includes the government officials from all sectors. Information Security Education & Awareness (ISEA) is a MeitY funded project with an objective for capacity building in the area of Information Security by training Govt. officials and organizing mass information awareness programs. Moreover, ERNET India in collaboration with Central Power Research Institute (CPRI), autonomous society under the Ministry of Power is looking at in real-time integrated approach of electrical network and IoT devices in Smart Grid system and related studies in Cyber Physical System Security.

Education is the most integral part of bringing up the power of the nation- the youth. Constant measures are being taken to improve educational sector for the students and enthusiastic approaches have already been made. ERNET India has signed a separate Memorandum of Understanding (MoU) with Directorate of Education, Daman & Diu (DD) and Directorate of Education, Dadra Nagar Haveli (DNH) to set up state-of-the-art ICT infrastructure in their schools. As per MoU, 64 ICT labs (i.e. 39 in DNH & 25 in DD) has been setup in both the UTs. The project is fully operational and is being used by the students of the concerned school. Along with this, ERNET India had also signed a Memorandum of Understanding (MOU) in January 2014 with Department of School Education, Andhra Pradesh Government to establish e-Learning ICT Infrastructure in 204 Schools located in rural/tribal areas of Andhra Pradesh and it was successfully completed in June 2017.

To improve education, there's a need to keep students immersed in what they're studying. And students are the keen souls who are always on the look-out for new technologies that come out as visual aids and other things that hold their interest. Keeping this in mind, the objective of the project "Smart Virtual Classroom" was initiated. It was to set-up smart virtual class room facilities in 3204 Govt. owned/controlled schools plus 50 DIET in Himachal, Gujarat, Rajasthan, Tripura, Haryana, Andhra Pradesh and Tamil Nadu with the focus to improve the quality of education to students from remote/rural part of the country. Also a Centralized control system was established in Delhi at ERNET's data centre which hosted the MCU, Streaming/ Recording server and other associated component and also offline access of classroom sessions round the clock for learning/collaboration between all the stakeholders.

As an initiative of digitalizing education, ERNET India successfully starts the Setting Up of e-classroom Infrastructure in 50 Medical Colleges. This project focuses on the operating of distant medical education using e-classrooms through Interactive video conferencing, Webcasting, archiving live lectures etc.

**Governing Council , EARNET India
01.04.2017 to 31.03.2018**

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|---|---|--|
| 1 | Shri Ravi Shankar Prasad
Hon'ble Minister of Electronics & IT
Ministry of Electronics & Information Technology, New Delhi | Chairman
1.4.17 to 31.3.18 |
| 2 | Shri P.P. Chaudhary
Hon'ble Minister of State
Electronics & Information Technology, New Delhi | Deputy Chairperson
1.4.17 to 3.8.17 |
| | Shri K.J. Alphons
Hon'ble Minister of State
Electronics & Information Technology, New Delhi | 4.8.17 to 31.3.18 |
| 3 | Ms. Aruna Sundararajan
Secretary
Ministry of Electronics & Information Technology, New Delhi | Executive Vice
Chairperson
1.4.17 to 22.6.17 |
| | Shri Ajay Sawhney
Secretary
Ministry of Electronics & Information Technology, New Delhi | 23.6.17 to 31.3.18 |
| 4 | Dr. Ajay Kumar
Additional Secretary
Ministry of Electronics & Information Technology, New Delhi | Member
1.4.17 to 30.11.17 |
| | Shri Pankaj Kumar
Additional Secretary
Ministry of Electronics & Information Technology, New Delhi | 19.3.18 to 31.3.18 |
| 5 | Ms. Anuradha Mitra
Addl. Secretary & Financial Adviser
Ministry of Electronics & Information Technology, New Delhi | Member
1.4.17 to 31.3.18 |
| 6 | Shri Rajiv Kumar
Joint Secretary (ABC Division)
Ministry of Electronics & Information Technology, New Delhi | Member
1.4.17 to 31.3.18 |

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| 7 | <p>Shri Sanjiv Mittal
Joint Secretary & Group Coordinator (e-Infra)
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Group Coordinator
Ministry of Electronics & Information Technology, New Delhi</p> | <p>Member
1.4.17 to 30.8.17</p> <p>4.9.17 to 31.3.18</p> |
| 8 | <p>Shri Kewal Kumar Sharma
Secretary (Higher Education)
Ministry of HRD, New Delhi</p> <p>Shri R. Subrahmanyam
Secretary (Higher Education)
Ministry of HRD, New Delhi</p> | <p>Member
1.3.17 to 28.2.18</p> <p>1.3.18 to 31.03.18</p> |
| 9 | <p>Shri R. S. Sharma
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Telecom Regulatory Authority of India, New Delhi</p> | <p>Member
1.4.17 to 31.03.18</p> |
| 10 | <p>Shri C.K. Mishra
Secretary
Ministry of Health & Family Welfare, New Delhi</p> <p>Ms. Preeti Sudan
Secretary
Ministry of Health & Family Welfare, New Delhi</p> | <p>Member
1.4.17 to 13.10.17</p> <p>17.10.17 to 31.3.18</p> |
| 11 | <p>Shri K. Sethuraman
Outstanding Scientist & Director
Deptt. of Space, Bangaluru</p> | <p>Member
1.4.17 to 31.03.18</p> |
| 12 | <p>Dr. Sanjay Bahl
Director General
Indian Computer Emergency Response Team
Ministry of Electronics & Information Technology, New Delhi</p> | <p>Member
1.4.17 to 31.3.18</p> |

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|----|---|---------------------------------------|
| 13 | Prof. V. Ramagopal Rao
Director
Indian Institute of Technology, New Delhi | Member
1.4.17 to 31.3.18 |
| 14 | Shri R. Chandrasekhar
President NASSCOM, NOIDA | Member
1.4.17 to 31.3.18 |
| 15 | Dr. Neena Pahuja
Director General
ERNET India | Member Secretary
1.4.17 to 31.3.18 |

**General Body of ERNET India
01.04.2017 to 31.03.2018**

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President NASSCOM, NOIDA | Member
1.4.17 to 31.3.18 |
| 15 | Dr. Neena Pahuja
Director General
ERNET India | Member Secretary
1.4.17 to 31.3.18 |

**KEY
HIGHLIGHTS**

Financial Highlights for 2017-18

- Total Revenue of the society was Rs. 62.27 crores and surplus in the same was Rs.2.70.
- Corpus has reached to Rs.97.24 crores as on 31.03.2018.

New Directions

- ERNET supported MeitY in policy formulation on Internet of Things (IoT). ERNET and NASSCOM worked in Public Private Partnership (PPP) mode to setup a Center of Excellence in IoT to nurture and promote startup culture and jumpstart innovation in India. Number of start-ups have been incubated.
- To achieve the target of making available web content to every Indian, specially to persons with Disabilities (Divyangjan) under Accessible India Campaign, ERNET launched the first 100 accessible websites of different State Governments with funding from Department of Empowerment of Persons with Disabilities (DEPwD) complying to GIGW and WCAG2.0 (A, AA level).
- ERNET India as part of the project collaboration under APAN Asi@Connect initiative has been participating in the tech-culture fusion platform including training programs and Cyber Performances in an 18 months project starting from Jul 2017 with 6 beneficiary countries, namely India, Vietnam, Malaysia, Bangladesh, South Korea and Pakistan.
- ERNET India has initiated an internally funded LiFi pilot project jointly with IIT Madras. The objective of this project is to study LiFi as an alternate communication technology and perform visible light communication experiments and explore LiFi opportunities in various deployment scenarios such as smart building and smart cities.
- To overcome the typical challenges faced by Fiber based broadband infrastructure, ERNET India started to explore Free Space Optics Communication as an additional Broadband Infrastructure to Fiber. Free Space Optics is a line-of-sight technology that uses invisible beams of light to provide optical bandwidth connections to send and receive voice, video, and data information. This optical connectivity also doesn't require securing spectrum license that's needed for radio frequency (RF) solutions. It is another broadband technology, which provides fast, secure and reliable data transmission. ERNET shall further explore, try and pilot using Free Space Optics technology in upcoming months.

Connecting India as part of Digital India Initiative & Research & Technology

- Under Digital India program as Wi-Fi has become a universal expectation among Universities/institutions students, faculty & staff as well as visitors/guests. For achieving the goal, MeitY in consultation with MHRD identified following five universities and directed ERNET India for setting up Wi-Fi enabled Campus Networks at Allahabad, Pune, Osmania, NEHU & Utkal University. It will enable on campus students, faculty, teachers, staff, guests to have entry to cyber world having intelligent Wi-Fi devices such as Tablets, smartphone, Laptop Computer to access, retrieve and post information on any-time-any-where basis across Wi-Fi enabled Campuses.
 - o Osmania University, The Wi-Fi project (phase -1) has been implemented at OU and it is operational. Around 6300+ Wi-Fi users are using it for study purpose, e-Books, e-journals, Research, Digital Teaching, Literature Survey etc.
 - o ERNET India has signed a separate MoU with Directorate of Education, Daman & Diu (DD) and Directorate of Education, Dadra Nagar Haveli (DNH) to set up state-of-the-art ICT infrastructure in their schools.
 - o The Wi-Fi project (phase -1) has been implemented at NEHU and it is operational. Around 3000+ Wi-Fi users are using it for accessing to journals from UGC-Infonet, E-journals, Digital Repository of NEHU, and all Departments' Research and projects and collaborations.
 - o The Wi-Fi project (phase -1) has been implemented at Utkal University and it is operational. Around 5000+ Wi-Fi users are using it for video lectures, online study material, applying for higher studies & jobs, etc.
 - o ERNET India has set up Wi-Fi enabled campus network in University of Allahabad, Allahabad, U.P and Savitribai Phule Pune University (SPPU), Pune. The Wi-Fi network implementation is completed and made operational.
- ERNET added over 230 Indian institutes in the list of globally connected institutes using 'eduroam'. This service realizes the objective of '**one world one connectivity**' by providing a secure, seamless world-wide roaming access service over shared virtual Wi-Fi campuses to researchers and academicians. 3,79,691 International roaming sessions has been successfully avail the benefit of eduroam service.

- ERNET is an exclusive Registrar for Domain Services for the education and research organisation under .in registry – edu.in, res.in and ac.in. The registration was automated and over **13307** domains were processed. ERNET is also registering विद्या.भारत (vidya.bharat) domains.
- ERNET India operates a VSAT network in C-Band using GSAT satellite for providing Internet & Intranet access to education and research institutions located all over the country. The Master Earth Station (MES) which is also functioning as the Network Operations Centre (NOC) is located at Bengaluru. During the year, the satellite bandwidth of the network has been increased from 54MHz to 89MHz on GSAT and this bandwidth has been successfully used in enhancing the capacity of the high capacity VSAT links provided to Kavaratti and Port Blair. The network provides three types of VSAT links, viz., DVB-S2 ACM / MF-TDMA based Broadband VSATs; Normal SCPC VSATs and High Capacity SCPC VSATs.
- As part of Digital India initiative, a project was initiated to provide Smart Virtual class room teaching facility in 3204 schools and its corresponding 50 DIETs in 7 identified states in phase - I. A central infrastructure facility has been created under the project to host the MCU, Streaming/ Recording server and other associated component for multiparty audio/ video interaction and also offline access of classroom sessions round the clock for learning / collaboration between all the stakeholders and also act as a central repository for accessing all previous sessions in an offline mode. The installation and commissioning of 3204 Schools and 50 DIETs have been completed and regular sessions have been conducted from multiple DIETs. Apart from curriculum teaching sessions, the installed Smart Virtual Classroom infrastructure is of great use towards objective/motive based lectures for students like IIT/Medical preparation, NEET Preparation, B-Ed online lectures, career counselling programs, awareness for Dengue, awareness towards digital payments, disaster management, e-waste management, promoting Swachh Bharat Abhiyan, yoga classes, human rights related lectures, environmental education etc.
- ERNET has connected remote educational institutes in North East States and Lakshadweep Islands.
- ERNET India successfully started setting up of e-classroom Infrastructure in 50 Medical Colleges.

- EARNET India in collaboration with Central Power Research Institute (CPRI), autonomous society under the Ministry of Power is looking at in real-time integrated approach of electrical network and IoT devices in Smart Grid system and related studies in Cyber Physical System Security.
- EARNET India is jointly working with Indian Institute of Science (IISc), Bangalore to setup an experimental LoRaWAN network. Under this, the plan is to make the preliminary development and management tools that is robust and demonstrate with at least one Smart City application on the testbed.
- EARNET India leads the IPv6 deployment initiative by offering Consultancy, Network augmentation and Turnkey Implementation services.
- EARNET has accomplished a world class Testing and Training facility with focus on IPv6 and future network technologies for providing hands-on experience and facilitating growth in the latest networking technologies.
- EARNET is hosting 3 Live IPv6 only root server as part of the global experiment on testing the performance and stability of DNS root servers worldwide under the Yeti-DNS initiative.

About ERNET

ERNET India, an autonomous scientific society under the administrative control of the Ministry of Electronics & Information Technology is functioning under the overall control and guidance of its Governing Council. The Hon'ble Minister for Electronics & Information Technology is the Chairman of the Council and the members have been chosen from premier academic & research institutions, government organizations and professional bodies.

ERNET India is serving academic and research institutions in the country by innovatively connecting them on Intranet and Internet using appropriate state-of-the-art technologies. Institutions anywhere in the country can now be connected to ERNET network. ERNET India provides services through its following 06 Points of Presence (PoPs) located across the country, which help in rapidly responding to the needs of the institutions in the country:

- ERNET India HQs, New Delhi
- Indian Institute of Technology (IIT), Guwahati
- University of Rajasthan, Jaipur
- National Informatics Centre, Salt Lake City, Kolkata
- VSAT Hub at Software Technology Parks of India (STPI), Bengaluru
- Indian Institute of Technology Madras, Chennai

All PoPs are equipped to provide access to Intranet, Internet and Digital Library through terrestrial leased circuits and radio links to the user institutions. These PoPs also provide technical support and hand-holding to user sites. The PoP at STPI Bengaluru provides Intranet and Internet access through Satellite.

In addition to 06 PoPs, ERNET India has setup regional centers at following 2 locations:-

- Bengaluru
- Chennai

**ERNET
Network
Architecture**

The ERNET network is a judicious mix of terrestrial and satellite based wide area network. The satellite Wide Area Network (WAN), using Very Small Aperture Terminal (VSAT) technology, has facilitated reliable and quick access to remote areas. The ERNET terrestrial WAN provides backbone links between the PoPs. The ERNET Network is connected to pan-European Education and Research Network (GEANT) and Trans Eurasia Information Network (TEIN3) through NKN. ERNET PoPs have one or more routers depending on the number of users connected to the PoP. Following are the salient features of the ERNET backbone:

- MPLS Enabled
- Dual stack support- Both IPv4 and IPv6
- High Capacity Backbone
- Scalable, Secure and Guaranteed QoS
- Support for IPv4 / IPv6 MPLS VPN services
- Multicast enabled VPN for running Multicast applications

The ERNET Backbone has been overlaid on National Knowledge Network (NKN) with backbone bandwidth of 100 Mbps (upgradable to 1 Gbps)

**IPv6
Enabled
Network**

ERNET network supports IPv4 and IPv6 Internet Protocol in native mode with dual stack, unicast and multicast. IPv6 routing protocol OSPFv3, end-to-end Ethernet services, QoS (DiffServ), video conferencing, authentication and authorization have also been implemented on ERNET Network.



Fig. 1: IPv6 Enabled MPLS Backbone

ERNET VSAT & LEASED LINE USERS

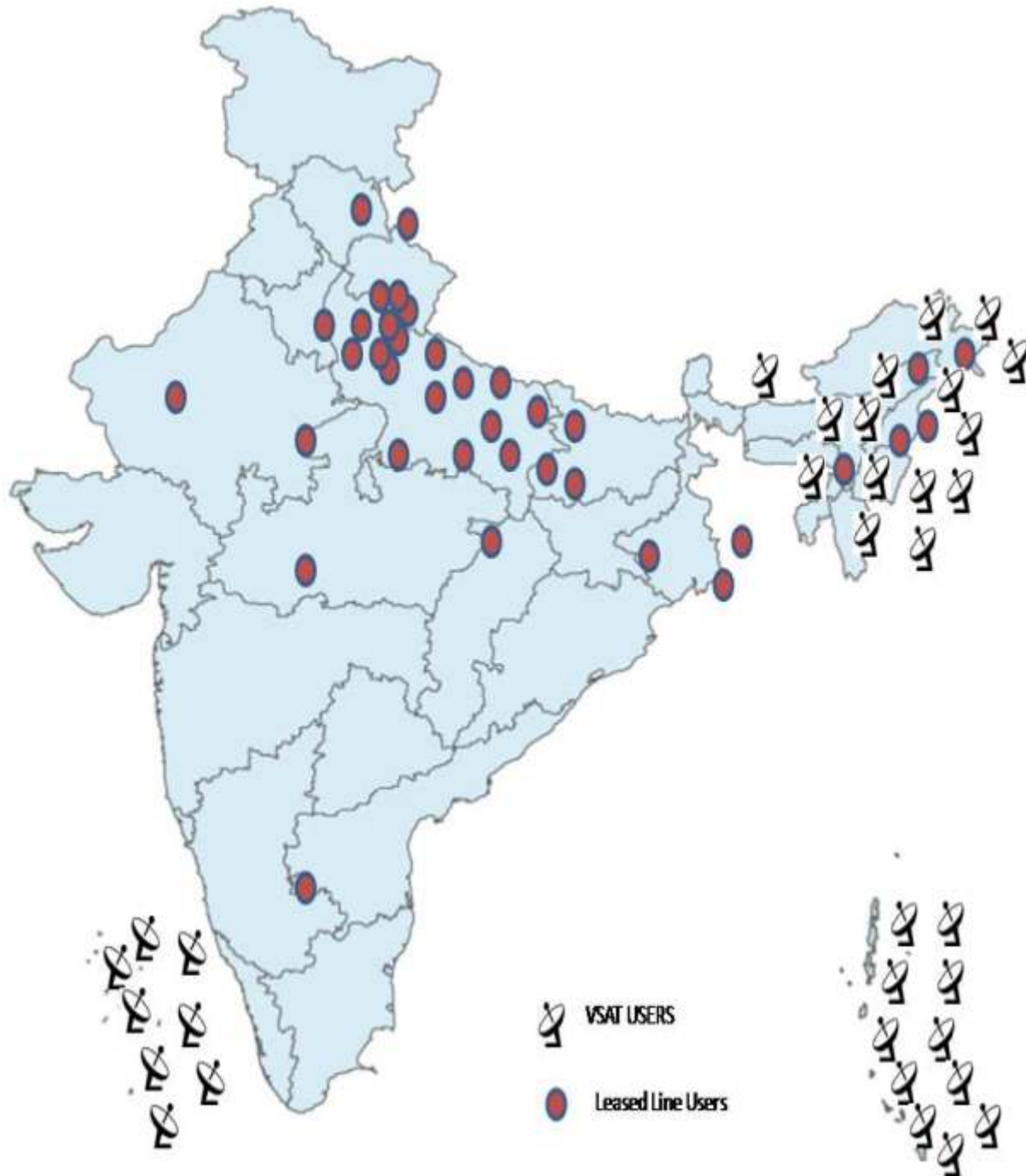


Fig. 2 : Leased line & VSAT users

eduroam- Global wi-fi users

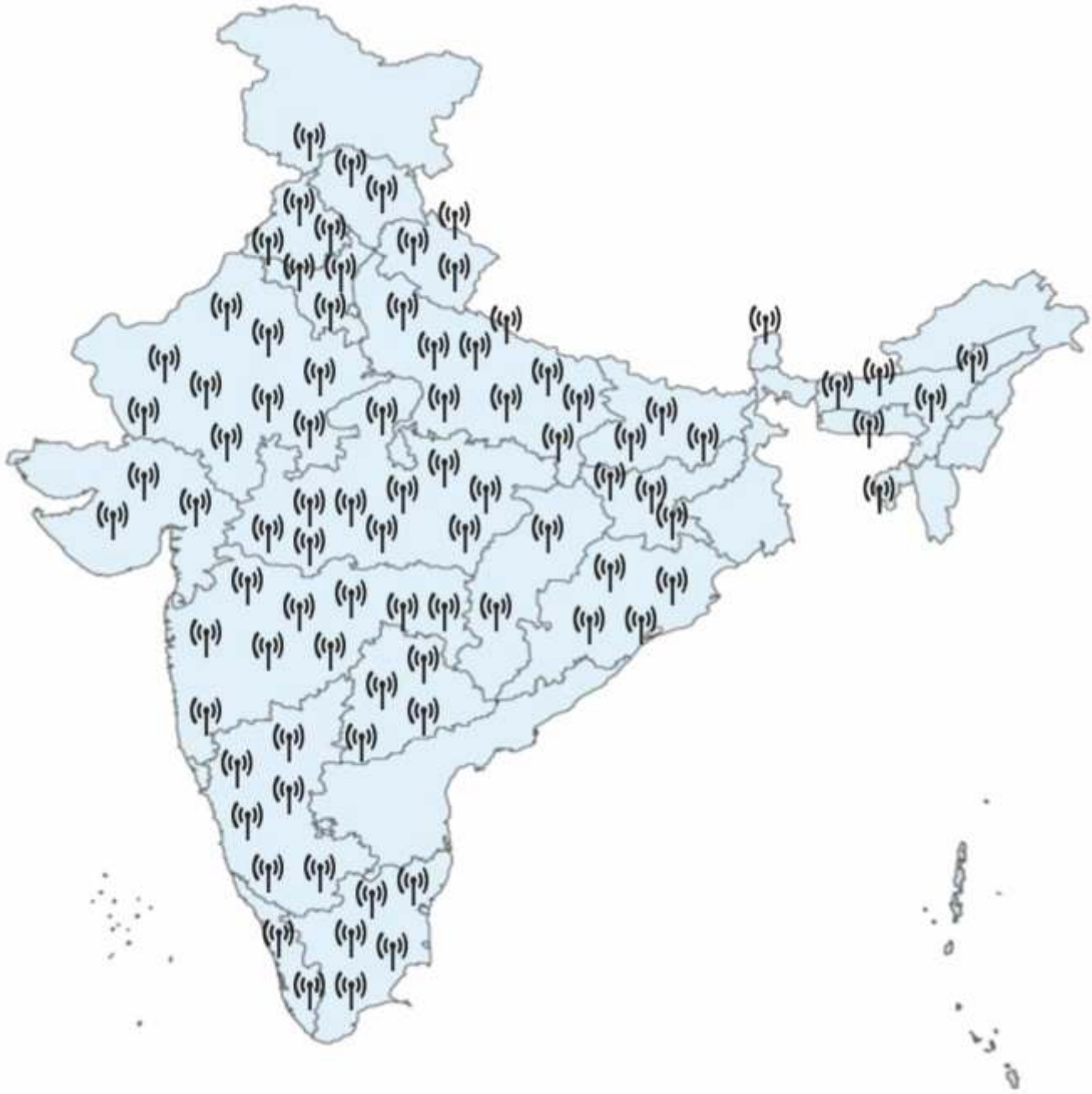


Fig. 3: eduroam Users

Smart Virtual Classroom users

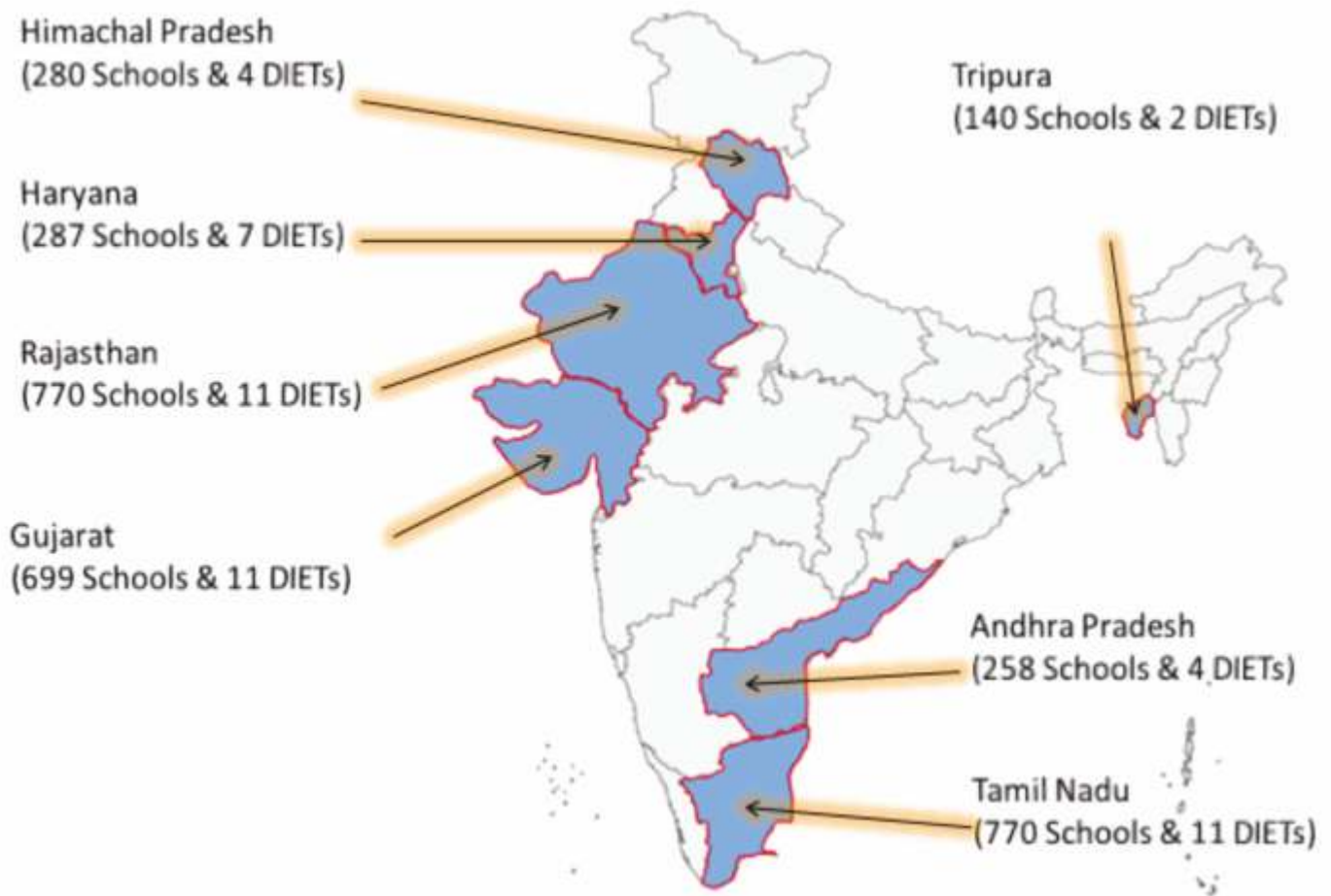


Fig. 4: Smart Virtual Classroom users

**VSAT
Network**

ERNET India operates a VSAT network in C-Band using GSAT satellite for providing Internet & Intranet access to education and research institutions located all over the country. The Master Earth Station (MES) which is also functioning as the Network Operations Centre (NOC) is located at Bengaluru. The MES is equipped with 9.2 meter antenna and is connected to ERNET terrestrial backbone through a dedicated high speed link at Bengaluru. The network provides three types of VSAT links, viz., DVB-S2 ACM / MF-TDMA based Broadband VSATs; Normal SCPC VSATs and High Capacity SCPC VSATs. It has around 160 VSAT links operational throughout the country providing internet access to the users.



Fig. 5 : The Master earth station (MES) at ERNET India, Bengaluru

Distinguishing feature of VSAT links provided by ERNET India: ERNET VSAT Network operates in C-band of satellite transponder space segment, therefore VSAT links provided by ERNET India are least affected by rain and other weather conditions. These VSAT links provide a high degree of reliability and continuous operation all over the country. They work efficiently even in difficult and far-flung areas of Andaman and Nicobar Islands, Lakshadweep Islands and North-Eastern states of the country in all weather conditions

Network Traffic Growth

ERNET increased its upstream bandwidth to reduce network utilization problem. Most of the customers have increased their bandwidth requirement and the demand is rising continuously.

At present, ERNET PoPs provide four types of services, namely, Access Services, Application Services, Hosting Services and Operations Support Services.

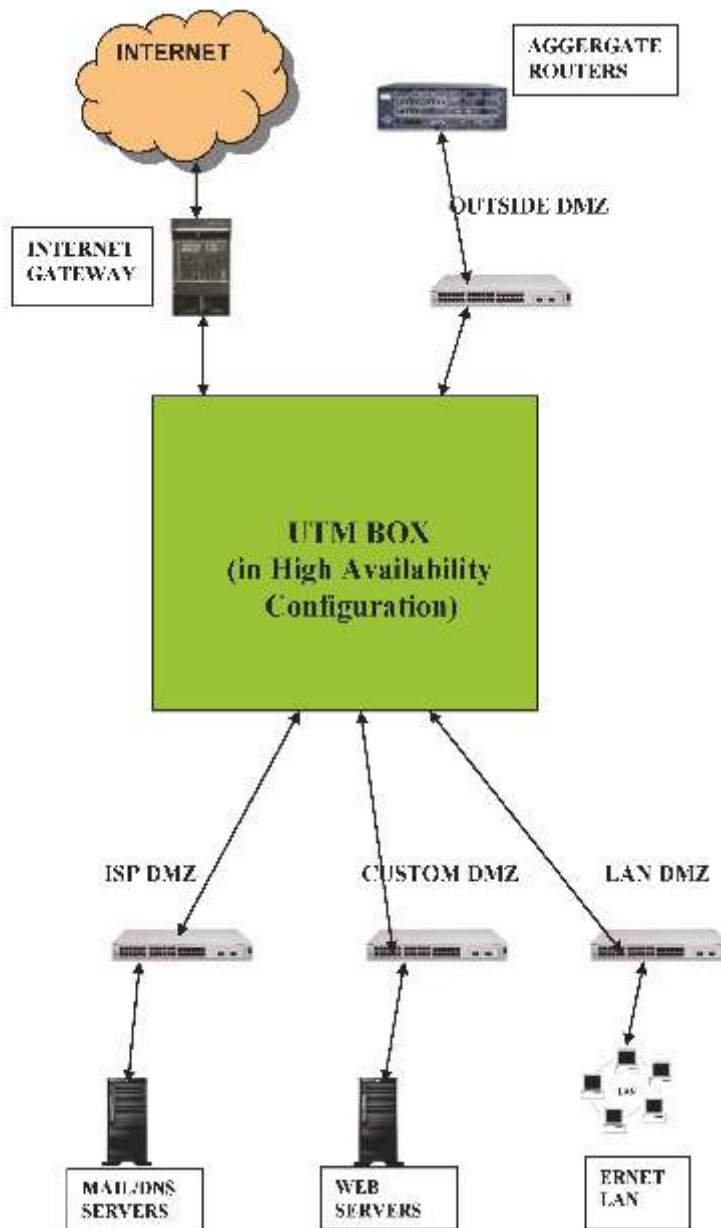


Fig. 6 : POP Infrastructure

Access Services

Access Services at the ERNET PoP comprise of services that provide access to the ERNET network. Subscribers use leased terrestrial lines, radio links and VSATs with bandwidth varying between 2Mbps to 45 Mbps to connect their networks to ERNET.

Terrestrial Leased Link

Leased lines are typically symmetric and use two wire local loops upto local exchange and hence to the customer end. This kind of connectivity is suitable where telecom network is well developed and dedicated leased line can be hired from basic service providers. Such links are primarily for nX64Kbps and nMbps speeds. ERNET is also delivering Internet bandwidth to its users through MPLS cloud in local loop. ERNET users are connected to MPLS VPN created on the telecom service provider's network. The telecom service providers aggregate such user and bring them to ERNET PoP to deliver Internet bandwidth.

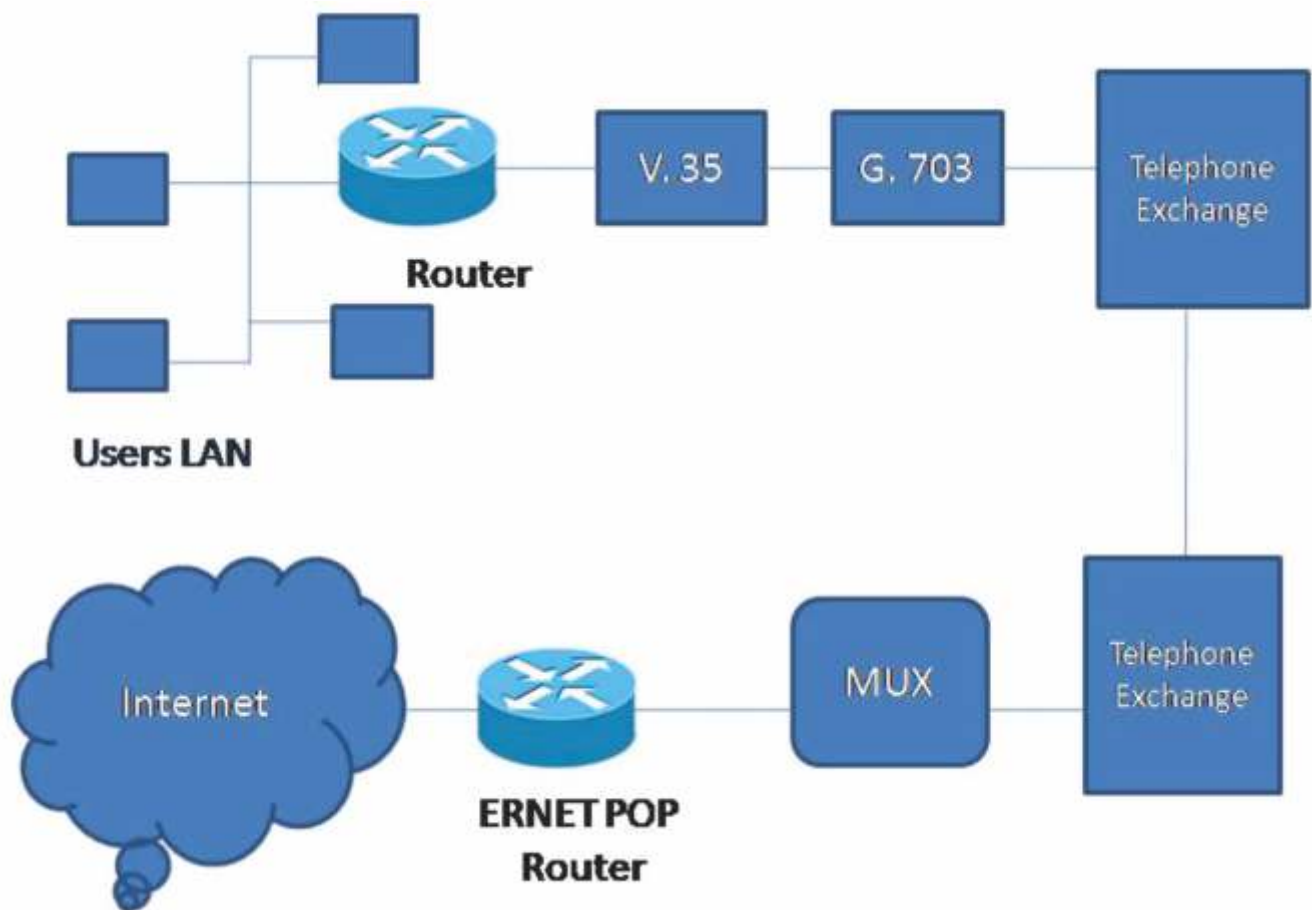


Fig. 7



Fig. 8 : Access Through MPLS Cloud

Radio Link and 802.11

This kind of connectivity requires line of sight clearance from the network node to the concerned user site. Such types of networks have distance limitation of 30 to 40 Kms

DVB-S2 ACM/MF-TDMA based Broadband VSAT

ERNET's DVB-S2 ACM /MF-TDMA based Broadband VSAT network architecture is a two-way star topology. The Broadband VSAT links have common Outbound capable of reaching up to 110 Msps. It supports all standard IP applications such as Internet/Intranet, VoIP, video conferencing, etc. These VSATs are cost effective and capable to provide data rate upto 4Mbps.

Normal SCPC VSAT

ERNET's Single Channel Per Carrier (SCPC) VSAT provides Point-to-Point connectivity in star topology by configuring SCPC modems. Both Outbound and Inbound carriers are dedicated in SCPC VSAT for bandwidth assignment to the institute. The normal SCPC VSAT is capable of providing data rate upto 8 Mbps which is suitable for institutions having large LAN and running critical applications requiring high uptime.

High Capacity SCPC VSAT

ERNET's high capacity SCPC VSAT provides Point-to-Point connectivity in star topology. These high capacity SCPC VSATs are suitable for delivering high data rates in the range of around 40Mbps with uptime of more than 99%. These are suitable for institutions having large LAN and running critical applications requiring high uptime.

Applications Services

Network Application Services comprise of applications provided for ERNET subscribers. eduroam –Global wi-fi roaming services, Domain name service and hosting services are the basic and most required services provided for ERNET customers.

eduroam services in India

eduroam stands for education roaming. It is the secure, world-wide roaming access service developed for the research and education community. It allows students, researchers and staff from participating institutions to obtain Internet connectivity across campus and when visiting other participating institutions by simply opening their laptop and working on local Wi-Fi network. ‘eduRoam’ service is available in 60 plus countries which cater more than 70,000 educational institutions globally and enjoy the seamless roaming.



Fig 9 : eduroam worldwide presence

ERNET acts as the National eduroam operator for India and is the central point for connecting all the universities/institutes with access to the Indian eduroam national federation service. In India, initially eduroam as a project was funded by Ministry of Electronics & Information Technology from April 2012- 2017. Now, ERNET continues to maintain eduroam services for existing users as well as propagate & promote the benefits users to their institutions in India. Appx 230 premier institutions including IITs & IIMs have hooked on eduroam network. Various awareness workshops have been hosted globally.

विश्व के एडूरोम सदस्यों में अब बीएचयू भी

कंप्यूटर सेंटर में कुलपति ने किया शुभारंभ, 15 अगस्त से पहले पूरा बीएचयू परिसर हो जाएगा वाई-फाई

अमर उजाला व्यूरो
वाराणसी।

विश्व के 70 हजार संस्थानों के साथ अब बीएचयू भी एडूरोम (प्रशिक्षण शक्ति) का सदस्य बन गया है। इसके ज़रिए देश-विदेश में किसी भी शिक्षण संस्थानों में यहां के छात्र-शिक्षक बीएचयू की ओर से दिए लाइव व पासवर्ड से निशुल्क इंटरनेट सेवा का लाभ ले सकेंगे। इसका शुभारंभ रविवार

को कुलपति प्रो. जीसी विद्याजी ने विश्वविद्यालय के कंप्यूटर सेंटर में किया।

कुलपति ने एडूरोम से जुड़ने की महत्वपूर्ण अवलंबि बतया। कहा कि वर्तमान में सूचना प्रौद्योगिकी में तेजी से विकास हो रहा है। ऐसे में जरूरी है कि छात्रों, शिक्षकों को इसका लाभ मिले। इस दिशा में वाईफाई सेवा अहम कदम है। ठाकर अरेंट इंडिया एजुकेशनल एंड रिसर्च नेटवर्क की ज्वाइंट

डायरेक्टर निर्मल मरवाह ने वायर फ़ाईट के माध्यम से सुविधाओं के बारे में जानकारी दी। सेंटर के सह समन्वयक और वाई-फाई कैम्प कनेक्ट परियोजना के उभारी डॉ. विनोद सिंह ने एडूरोम की जानकारी दी। मानव संसाधन विकास मंत्रालय के परामर्शदाता प्रवीण राय ने बताया कि 15 अगस्त से पहले परिसर वाई-फाई हो जाएगा। विज्ञान संकाय प्रमुख प्रो. चंदना हलदार ने आभार जताया।



एडूरोम के शुभारंभ के मौके पर स्मृतिचिह्न ग्रहण करते कुलपति।

Fig 10 : eduroam enablement at Banaras Hindu University, Varanasi

Web Domain Name Registration under ac.in, edu.in, res.in and vidya.bharat

Domain Registrations for Educational & Research Institution including schools, colleges and universities.



ERNET India is an exclusive domain registrar for education and research domains; registering the domains under **ac.in**, **edu.in** & **res.in** from 2005. The domain registration, renewal & modification is fully automated with online payment facility for registering and renewing domain names on just a click. The automated website is GIGW compliant and runs on dual stack IPv4 and IPv6. In automated system, customer can modify online their DNS entries and other permissible information related to their institution. ERNET also register domain names under विद्या.भारत under Internationalized domain names (IDN).

During the financial year April17-March 2018, ERNET had registered/renewed 3993 academic domains and Total 13307 domains have been registered.

Hosting Services

ERNET India is providing web hosting services to the various Educational/ Academic & Research Institutes, Departments / Organizations. ERNET India has a huge web hosting infrastructure in its state of the art IDC(Internet Data Centre) which includes a large number of performance tuned, hi-end and secured servers. The Data Centre is connected to Internet on a high speed/bandwidth. Web Hosting services are offered on Linux & Windows Platforms and the servers are powered with the state-of-the-art web technologies such as CGI, Perl, PHP, ASP, ASP.NET, JSP, Tomcat etc. Popular Databases like MS SQL, MySQL are also supported.

ERNET India mandates to get the website audited by a certifying agency for any security vulnerability. To ensure utmost security, no website can be hosted on the ERNET web servers without undergoing the mandatory Security Audit. ERNET India also facilitates remote access facility that allows to update and maintain the sites from customer's office or any other remote location through VPN (Virtual Private Network) or through E-Mails.

About 40 websites are hosted at ERNET India web platform. Snapshot of some hosted websites are placed below:

- Maharaja Surajmal Brij University, Bharatpur (Raj.)
<http://brijuniversity.ac.in>
- G.B Pant Engineering College, Pauri Garhwal
<http://www.gbpec.ac.in/>
- Hemwati Nandan Bahuguna Garhwal University
<http://www.hnbgu.ac.in>



Fig. 11 : Hosted Websites

Operations Support Services

These services have been evolved at our PoPs by way of development of tools needed to monitor the operational elements of PoP effectively.

Service Monitoring and Reporting

ERNET PoPs continuously monitor the performance of peering, backbone and user links. The measurements include:

- Link availability
- Link utilization
- Break up of traffic generated by respective sites

The services for which we measure the performance metrics include web, ftp, e-mail, etc. The web download session throughputs obtained by the users at the user site are measured. A Service Level Report (SLR) is sent to the users every month. ERNET India generates monthly statistics for:

- e-mail traffic
- Spams
- Infected mails

Network Operation Centre

ERNET India is using combination of open source softwares such as MRTG customized to ERNET requirement for traffic monitoring, link performance monitoring and to generate alerts which is integrated with the messaging system to generate instant alerts. The Network Operation Centre is being managed by skilled professionals to provide all necessary support to ERNET users.

User Support/Help Desk

Centralized service desk with trouble ticket generation has been set up for logging complaints related to DNS, Dialup, RF and VSAT users of ERNET. Network alarms and monitoring system at ERNET NoC helps the team in taking proactive measures in case of any inconsistency in the NoC

ERNIC provides Internet Protocol (IP) address space (both IPv4 and IPv6) and in-addr.arpa domain delegations to its customers. The various activities performed by ERNIC include:

1. Assign IP Addresses to various PoPs & users (terrestrial as well as SATWAN).
2. Collect information about administrative and technical contact person from each customer location and create NIC handle for them.
3. Update Information about inetnum objects (the range of IP address space described by the object) in the APNIC database.
4. Co-ordinate with various PoPs for creating reverse DNS zones on name servers and register the reverse domains with APNIC.
5. Take appropriate actions on the complaints received regarding any illegal usage of ERNET resources.
6. Creating and specifying IRT objects for all the Internet resources allocated to ERNET India and its customers.

**ERNIC
(ERNET
Network
Information
Centre)**

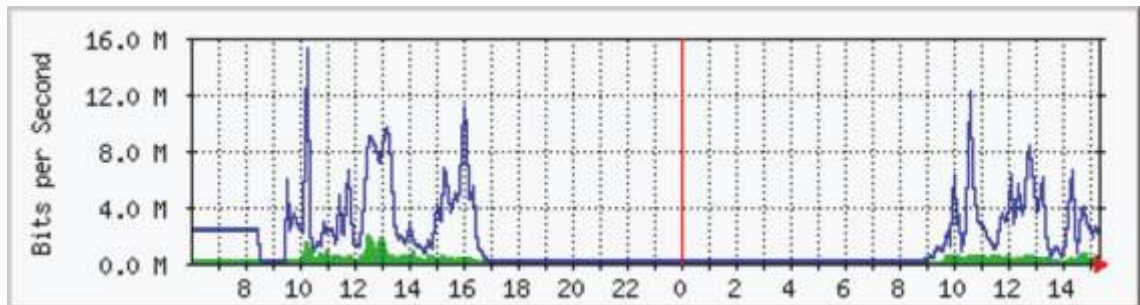
Graphical Representation of user traffic

ERNET website <http://www.eis.ernet.in> apart from providing general information about the PoPs also provides the following information regarding users Internet usage:

- Online service-wise usage.
- Status of the link (up/down time)
- The amount of non-standard traffic (for the users to check for unwanted traffic hogging their Internet access link)

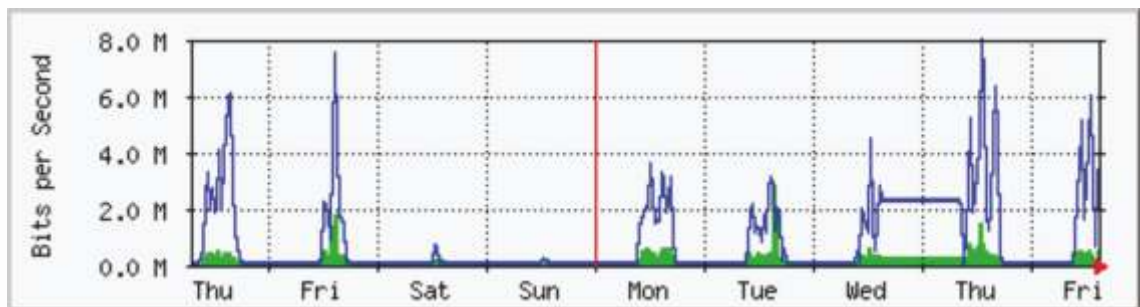
Traffic Analysis for User Link

Daily Graph (5 Minute Average)



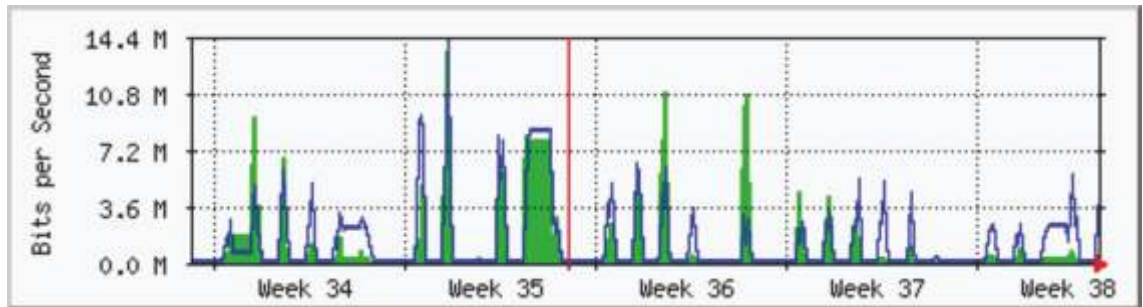
	Max	Average	Current
In	1933.4 kb/s (1.9%)	248.4 kb/s (0.2%)	516.6 kb/s (0.5%)
Out	15.2 Mb/s (15.2%)	1587.4 kb/s (1.6%)	2287.3 kb/s (2.3%)

Weekly Graph (30 Minute Average)



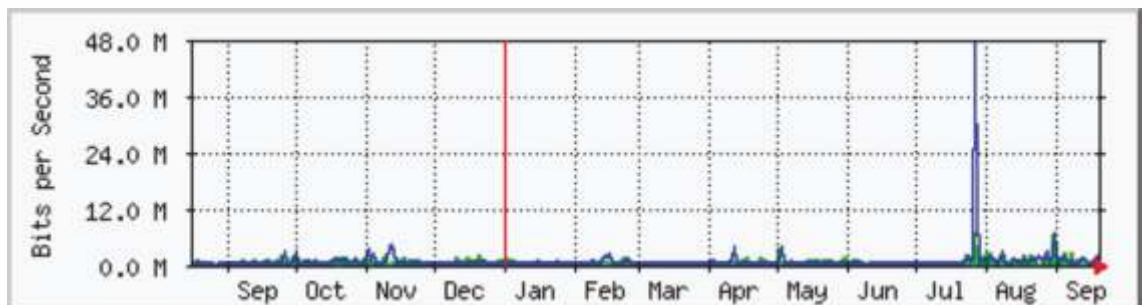
	Max	Average	Current
In	2801.2 kb/s (2.8%)	181.6 kb/s (0.2%)	484.1 kb/s (0.5%)
Out	7997.7 kb/s (8.0%)	830.1 kb/s (0.8%)	2930.7 kb/s (2.9%)

Monthly Graph (2 Hour Average)



	Max	Average	Current
In	13.5 Mb/s (13.5%)	883.8 kb/s (0.9%)	397.2 kb/s (0.4%)
Out	14.0 Mb/s (14.0%)	1131.5 kb/s (1.1%)	4047.0 kb/s (4.0%)

Yearly Graph (1 Day Average)



	Max	Average	Current
In	6795.4 kb/s (6.8%)	660.9 kb/s (0.7%)	246.0 kb/s (0.2%)
Out	47.5 Mb/s (47.5%)	585.5 kb/s (0.6%)	1460.6 kb/s (1.5%)

GREEN Incoming Traffic in Bits per Second
BLUE Outgoing Traffic in Bits per Second

Fig :12 Traffic Analysis for User Link

PROJECTS AT ERNET INDIA

Development/renovation of Government / State Govt. websites to make them accessible for Persons with Disabilities (PwD) as per GIGW / WCAG. 2.0 (A, AA level)

Under Accessibility India Campaign, one of the target is to make Government websites and Digital contents accessible to all. For this, Department of Empowerment of Persons with Disabilities (DEPwD) has funded ERNET India to make State Govt. websites accessible as per GIGW and WCAG-2.0 (A, AA level) standards.

917 websites across 24 states and UTs of the country are being redeveloped to make them accessible to all specially to Persons with Disabilities (PwD) and responsive irrespective of type of device or browser. Approx. 340 websites have been developed under the project during the year.

100 accessible websites were launched by Honorable Minister of Social Justice and Empowerment in Jan., 2018. One of the Accessible website was demonstrated by Visually Impaired in the said event.



Fig: 13



Fig: 14

NASSCOM – MeitY – EARNET Center of Excellence (CoE) for Internet of Things (IoT)

NASSCOM-MeitY-ERNET CoE for IoT was setup in June 2015 with the overall objective of enabling India as technology hub for emerging technologies. In addition the CoE will support the government initiatives in the social areas such as agriculture, healthcare, water, transportation, energy, security and privacy of data. The CoE is funded 50:50 on Public Private Partnership (PPP) model between MeitY and NASSCOM through its industry partners. Under COE-IoT Bengaluru, a number of start-ups have been incubated and are getting uninterrupted access to advanced equipment. The start-ups have an opportunity to make direct connects with various strategic partners of NASSCOM and get validated by experts of the industry. The following are the highlights of CoE- IoT, Bengaluru:

- 35 start-ups have been incubated in house, connected with 500+ start-ups pan India,
- 2 start-ups have graduated
- IP's applied -27, Received- 7
- Partners Signed up : Strategic-13, Co-create-3, Innovation-2, Infrastructure-4
- Organized / Participated in 19 Thought leadership events till date across pan India
- Focussed on - Industry4.0, Automotive/ Transportation, Healthcare, Energy, Agriculture, Smart Cities.
- Participation with the industry for IoT standards and policies formation
- 8 IoT researchers incubated
- Societal projects executed: 5 Healthcare, 2 Agriculture, 1Energy
- MeitY has taken further steps to add three more CoE's besides CoE-IoT Bengaluru in various states across the country viz.at Gurugram (Haryana), Gandhi Nagar (Gujarat) and Visakhapatnam (Andhra Pradesh).

Other tasks related to IoT ecosystem build-up:

- M.Tech/M.E IoT curriculum was created at ERNET India. The curriculum was reviewed by SME's at IIT and Industry.
- ERNET team has participated in Focussed Group Discussion on IoT Ecosystem Buildup at IIT Delhi.
- DG ERNET India, delivered keynotes on IoT & related technologies at various key events such as Global Conference on Cyber Space (GCCS), The 2nd Edition of CII National IoT Summit 2017, Delhi etc

Internet of Things (IoT) management framework for Smart Cities

ERNET India is jointly working with Indian Institute of Science (IISc), Bangalore to setup an experimental LoRaWAN network. Under this, the plan is to make the preliminary development and management tools that is robust and demonstrate with at least one Smart City application on the testbed.

Considering a simple streetlight as one of the application of Smart City, that can be remotely monitored and controlled via intelligent applications. Under this activity, the smart street pole contains a low cost compute box (pole gateway) that could connect to cameras, temperature, humidity, air quality and other sensors. This pole gateway could perform the local analytics and push data to server/ IoT middleware through LoRa communication or passive optical fiber. A few applications using this platform could be traffic control using cameras, pedestrian density based lighting, or event based brightening of street light and more.

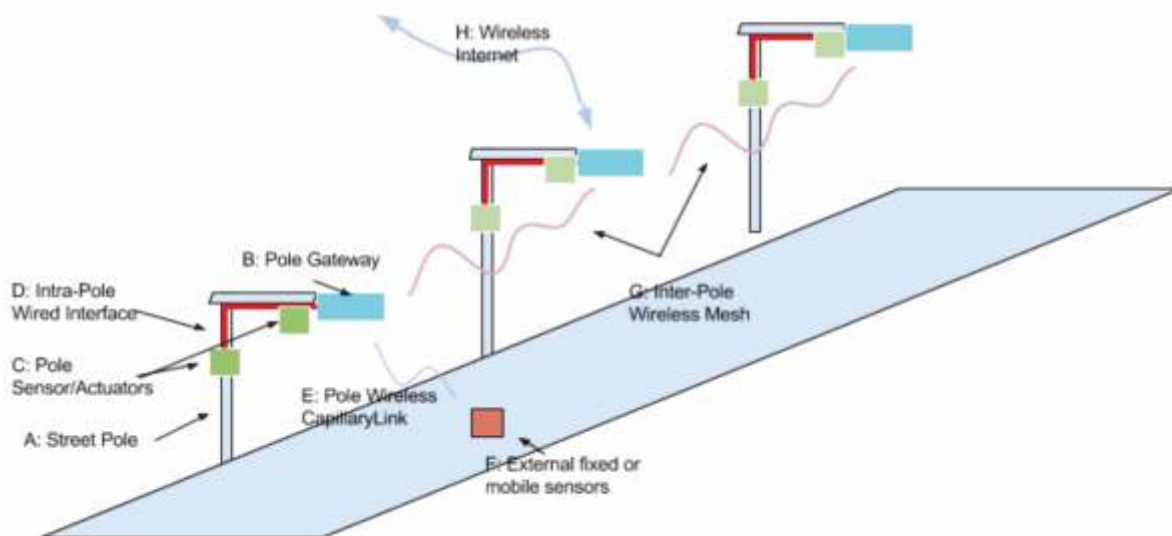


Fig 15: Experimental smart street pole setup



Fig 16: Smart street lights

As part of this project, the LoRaWAN network has been setup in IISc campus with few smart streetlights and LoRa gateways for real-time experimentation. ERNET will also be part of the IISc initiative with industry partners to create Open Smart City consortium to develop standard interfaces for IoT data exchange and analytics.

Information Security Education & Awareness (ISEA)-Phase II

Information Security Education & Awareness (ISEA) is a MeitY funded project with an objective for capacity building in the area of Information Security to address the human resource requirements, training to Govt. officials and organizing mass information awareness programs. This project envisages training of 1.14 lakh persons through formal/non-formal courses and 5200 Govt. officials through direct training programs.

ERNET India is one of the implementing agencies for Government officials training for the duration of 5 years (2015-2020). Under this project, ERNET India has organized seven training programs (during 2015-18) to the Government officials at various locations at Chennai, Bangalore and Tiruchirappalli. The training topics mainly focused on Cyber Security, Information & Network Security and IoT/Smart grid security for the benefit of Govt. officials working in the security domain. The participants came from various Govt. organizations like Tamilnadu Electricity Generation and Distribution Corporation (TANGEDCO), Electronics Corporation of Tamilnadu (ELCOT), CSIR - Madras, Tamilnadu Arasu cable TV (TACTV), Airport Authority of India (AAI), National Informatics Centre (NIC) and National Institute of Wind Energy (NIWE). ERNET India has trained so far more than 165 Government officials under this project and we expect to complete the training of around 600 Govt. officials over the period of 5 years.



Fig 17: Training session @ERNET Chennai



Fig 18 : ISEA Training Participants at NITK, Surathkal

LiFi Experimental Testbed Project

ERNET India has initiated an internally funded LiFi pilot project jointly with IIT Madras for the duration of 2 years (2017-19). The objective of this project is to study LiFi as an alternate communication technology and perform visible light communication experiments and explore LiFi opportunities in various deployment scenarios such as smart building and smart cities.

The indoor LiFi internet kit was setup at ERNET Chennai to study and demonstrate LiFi capabilities, evaluate the indoor performance and various experiments in single user scenario. As part of indoor experiment, measurement of coverage range, optical power received at different coordinates, outage analysis at different distance in both Line of sight (LOS) and Non Line of Sight (NLoS) was carried out. The experimental outcome of the test results were published in APAN44 Network Research Workshop and Global LiFi Congress 2018

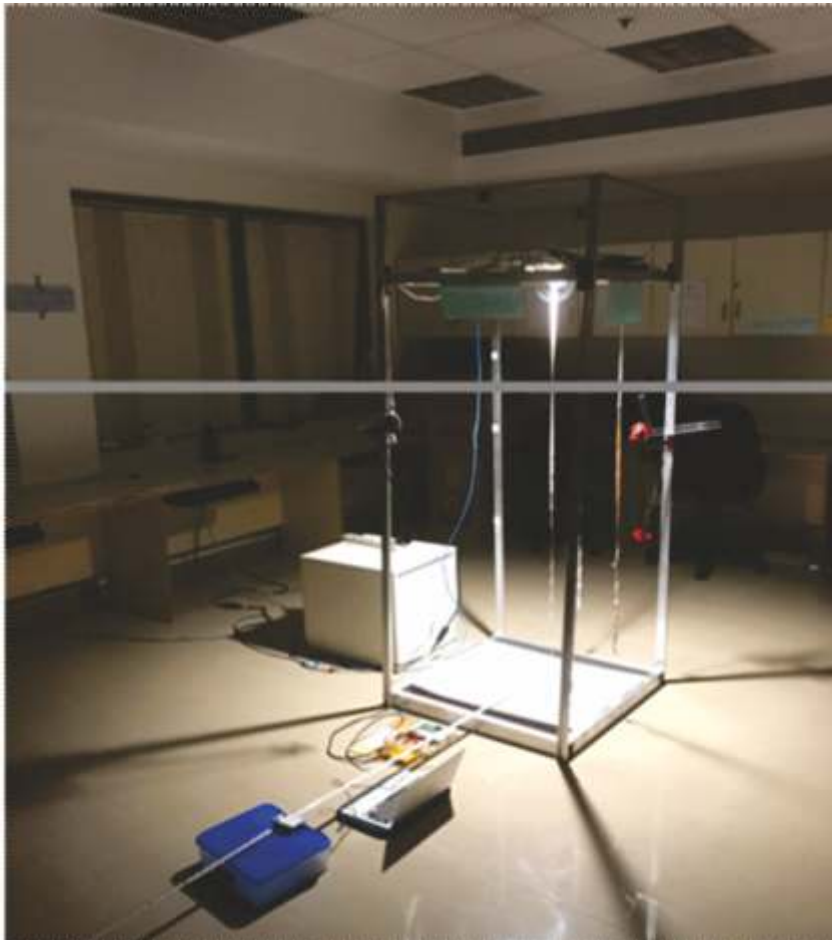


Fig. 19 LiFi experimental testbed setup



Fig. (a) Downlink LED transmitter



Fig. (b) LiFi USB Dongle



Fig.(c) IR Uplink Receiver

Further, ERNET India will be setting up LiFi indoor multi user testbed to study various performances issues like data rate, handover, interference and deployment challenges in a class room/ auditorium setup. The initial experiments will be carried out in a controlled environment at ERNET Chennai centre and further real use case deployment will also be explored in a hospital environment, where RF signals are prohibited.

ERNET India will be carrying out point-to-point visible light communication set up using open source (OpenVLC) platform for prototyping LiFi experiments towards new algorithm development and experimentation for various modulation schemes and data rate. OpenVLC experimentation can help to create an open-source software-defined VLC platform for fast prototyping of new system protocols to build a LiFi network with less cost.

Conference Publications:

1. "Can Balloons Produce Li-Fi? A Disaster Management Perspective", IEEE Global Li-Fi Congress 2018, February 8-9 2018, Paris
2. "Experimental tests for outage analysis in SISO Li-Fi Indoor Communication Environment", Proceedings of the 44th APAN, Aug 26-Sep 1 2017 (ISSN: 2227-3026) **[Best Paper Award]**

Setting up of e-classroom Infrastructure in 50 Medical colleges

Ministry of Health and Family Welfare (MoHFW) has appointed of ERNET India as System Integrator (SI) for setting up of e-classroom Infrastructure in 50 Medical colleges at the cost of Rs. 37, 96, 68,492 plus applicable taxes. MoHFW has issued the Work Order to ERNET India on February 08, 2018. This MoHFW Project is to be implemented in 50 Medical Colleges / institutions including a NRC and 7 RRCs spreading across the country. For implementation of the project, ERNET India had floated an open EOI for engaging Consortium Partner and M/S Yash Technologies Private Ltd. has been selected as the Consortium Partner for executing the project.

Some of the activities of the project are as given below:

- Supply, Installation, Testing and Commissioning (SITC), Training and Operations of requisite equipment for e-Classroom and Maintenance for 5 years.
- Integration with Centralized Infrastructure at NRC(National Resource Centre)
- Operation of the network for distant medical education using e-Class Rooms, Interactive Videoconference point to point/ point to Multi point, Webcasting, Web streaming etc.
- Archival of live Lectures, educational content and maintenance of Database of the Content at NRC.
- Operation of Data Centre at Central HUB with deployment of appropriate manpower with required knowledge & skill.
- Imparting training in all the fields of technology involved in the project such as Information Technology (IT), Network, Video Conference etc., Business Process Reengineering (BPR) and Change Management.

The overall duration of the project is 5 years. All the 50 medical colleges will be operational and will Go Live with the National Resource Centre (NRC) at SGPGI, Lucknow by December 08,2018. After that ERNET India shall provide support and maintaining services in these 50 Medical colleges.

Establishment of VSAT connectivity for Internet/Intranet access in the North-Eastern States of the country

ERNET India has been entrusted to establish VSAT connectivity for Internet/ Intranet access at 60 educational institutes/ schools in the North-Eastern states of India by MeitY, GoI. The objective of this project is to connect schools and institutes located in the remote parts of North-Eastern states of the country through satellite based VSAT links where reliable terrestrial connectivity is not available for promoting equitable and sustainable development of these remote areas. The connectivity has been established and links are operational at all sites.

Establishment of a high capacity SCPC VSAT link at Kavaratti, the U.T. of Lakshadweep Islands

ERNET India had established a high capacity SCPC VSAT link at Kavaratti, the U. T. of Lakshadweep Islands for NKN project of MeitY. The link has been operational since March 2017 and is serving the U.T. successfully.

Establishment of a high capacity SCPC VSAT link at Port Blair, the U.T. of Andaman & Nicobar Islands

ERNET India has established a high capacity SCPC VSAT link at Portblair, the U. T. of Andaman & Nicobar Islands for NKN project of MeitY. The link has been operational from January 2018 and is catering successfully to the needs of the U.T.



Fig 20 : High Capacity SCPC VSAT at Kavaratti, the U.T. of Lakshadweep Island for NKN Project

Enabling Schools with Smart Virtual Class Room Facility

The objective of the project “Smart Virtual Classroom” was to set-up smart virtual class room facilities in 3204 Govt. owned / controlled schools plus 50 DIET in seven pilot states of Himachal, Gujarat, Rajasthan, Tripura, Haryana, Andhra Pradesh and Tamil Nadu with the focus to improve the quality of education to students from remote/ rural part of the country. Also a Centralized control system was established in Delhi at ERNET’s data centre which hosted the MCU, Streaming/ Recording server and other associated component for multiparty audio/ video interaction and also offline access of classroom sessions round the clock for learning / collaboration between all the stakeholders. The basic aim of the SVC project was to create technology enhanced classrooms that will foster opportunities for teaching and learning by integrating learning technology, such as computers, electronic white boards, projectors, specialized software, interactive audio-video systems, etc. Under the project, the operational usage training of SVC infrastructure is provided to the Schools and DIETs teachers where DIET is acting as a mentor. Specialized faculty is taking the lectures live to the other schools in that district as well as in the adjoining areas.

Smart Virtual Classroom (SVC) is a scheduled, online, teacher-led pedagogical intervention where, unlike conventional classrooms, teachers are not present with learners physically but instead interact through public network in an online learning environment. It typically comprises of solution for capturing audio / video and integration of other electronics devices like Interactive White Broad, Projector, Professional Desktop, UPS, etc. Smart Virtual Classroom (SVC) is just like a real classroom, wherein a student in a SVC setup participates in a synchronous manner, which means that the teacher and students are logged into the interactive video conferencing sessions and experience the virtual classroom environment by making use of electronic interactive white board, projector and Professional Desktop.

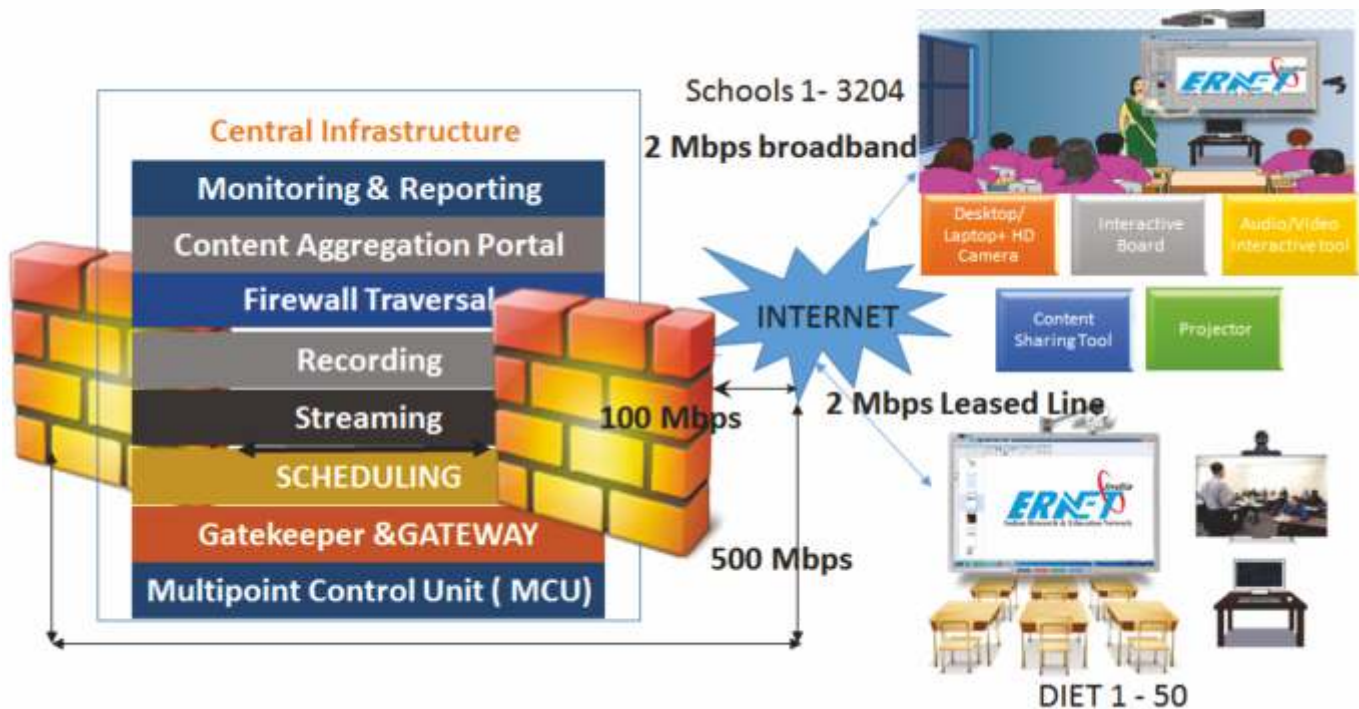


Fig 21: Enabling Schools with Smart Virtual Class Room Facility

Smart Virtual Classroom project specific deliverables are mentioned below with achievements:

- Established **01 Central Location** for Hosting MCU, scheduling s/w, Recording/ Streaming Solution for enabling storage of live sessions, offline access and multiparty conferencing.
- Established **50 high-end smart virtual classrooms** in each of the identified 50 DIETs, equipped with hardware based Video Conferencing & electronic teaching aid equipments.
- Established **3204 smart virtual classrooms** in 07 state, equipped with Software based Video Conferencing & electronic teaching aid equipments. (Andhra Pradesh, Tamil Nadu, Gujarat, Rajasthan, Haryana, Himachal Pradesh, Tripura).
- Established **Knowledge aggregation portal** acting as a single platform for scheduling of sessions, data analytics, accessing off-line repository of sessions through a unique user name password.
- Imparted **operational hands-on training** to the DIETs/ school staff with a training manual.

Hon'ble Union Minister of Electronics and IT & Law and Justice Shri. Ravi Shankar Prasad and the Hon'ble Chief Minister of the State of Tripura, Shri Biplab Kumar Deb formally inaugurated Smart Virtual Classroom facilities established under the project in the state of Tripura.



Fig: 22

Achievements till date:



Fig: 23

The installation and commissioning of all 3204 Schools and 50 DIETs have been completed. Also the Centralized control system has been established and running since last 24 months in Delhi at ERNET's data centre which is hosting the MCU, Streaming/Recording server and other associated component for multiparty audio/ video interaction and also offline access of classroom sessions round the clock for learning / collaboration between all the Schools and DIETs.

Project usage statistics

- The live virtual classroom sessions are being conducted through multiple DIETs since last 10 months and total 4356 such sessions conducted till date.
- More than 64814 teachers have been trained till date under the project for operational skill set.
- More than 39,03,200 students attended the live sessions till date and increasing on daily basis.



Fig: 24

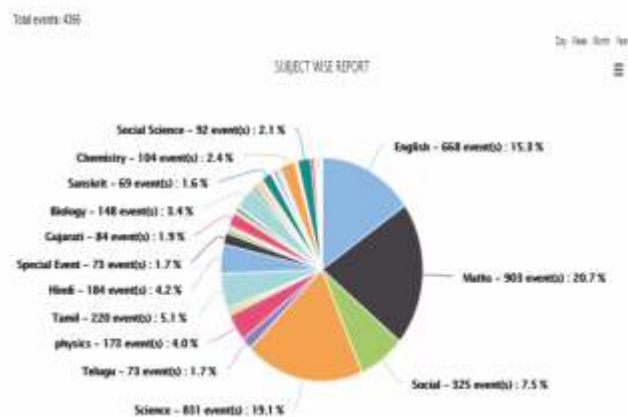


Fig: 25

Model Wi-Fi enabled Campus Networks at five Universities

Government of India has approved 'Digital India' program with the vision to transform India into a digitally empowered society and knowledge economy. The vision is centered on three key areas:

1. Digital Infrastructure as a Utility to Every Citizen
2. Governance & Services on Demand
3. Digital Empowerment of Citizens

To realize the same, a need has been felt to Wi-Fi enable all the Higher learning Institutions/universities in the country as a part of 9th pillar (Early Harvest programs) under Digital India program as Wi-Fi has become a universal expectation among Universities/institutions students, faculty & staff as well as visitors/guests. This is one of the steps for achieving goals set under visionary Digital India program of Govt. of India for India Tomorrow.

For achieving the same, DeitY in consultation with MHRD identified following five universities and directed ERNET India for setting up Wi-Fi enabled Campus Networks at Allahabad, Pune, Osmania, NEHU & Utkal University. DeitY desired that ERNET India should setup Model Wi-Fi enabled Campus Network as a Proof of Concept at all these five Universities so as to enable on campus students, faculty, teachers, staff, guests to have entry to cyber world having intelligent Wi-Fi devices such as Tablets, smartphone, Laptop Computer to access, retrieve and post information on any-time-any-where basis across Wi-Fi enabled Campuses. Accordingly, detailed site surveys were conducted at all these five universities to do the feasibility study and subsequently provide a suitable solution. The project proposals for each university was created through assessing & finalizing the requirement separately through feasibility site surveys of each Campus & submitted to DeitY. The projects had been approved by DeitY for implementation by ERNET India. The salient features of the solution architecture are:

- Wi-Fi LAN created 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 Central site named as Core.
- Cost-effective network setup with centralized Wireless controller for better management, ease of configuration, dynamic environments & with increased flexibility
- Enabling high speed wireless access to Internet & Intranet resources to campus employees, staff, faculty, teachers, students, official visitors, guest on any-time anywhere basis University 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.

Provide freedom of work on the move, faster & efficient delivery of services, easy access to teacher/student related information & services, ease of deployment and access, business continuity, increase in productivity and reduction in day to day cost

i) Setting up Wi-Fi enabled Campus Network at Allahabad University, Allahabad:

ERNET India has set up Wi-Fi enabled campus network at University of Allahabad, Allahabad, U.P. The project is a powerful combination of wired & wireless network technologies enable flexibility, resiliency, ease of access to information, data & services by any Wi-Fi enabled devices across the campus. It enables high speed wireless access to Internet/Intranet resources to campus staff, faculty, teachers, students, visitors on any-time any-where basis across the AU campus.

The Wi-Fi network implementation is completed and made operational. The project is under warranty support. The installed Wi-Fi network is highly available, secure, scalable & redundant with Centralized Wireless Controller, Management & Authentication systems.

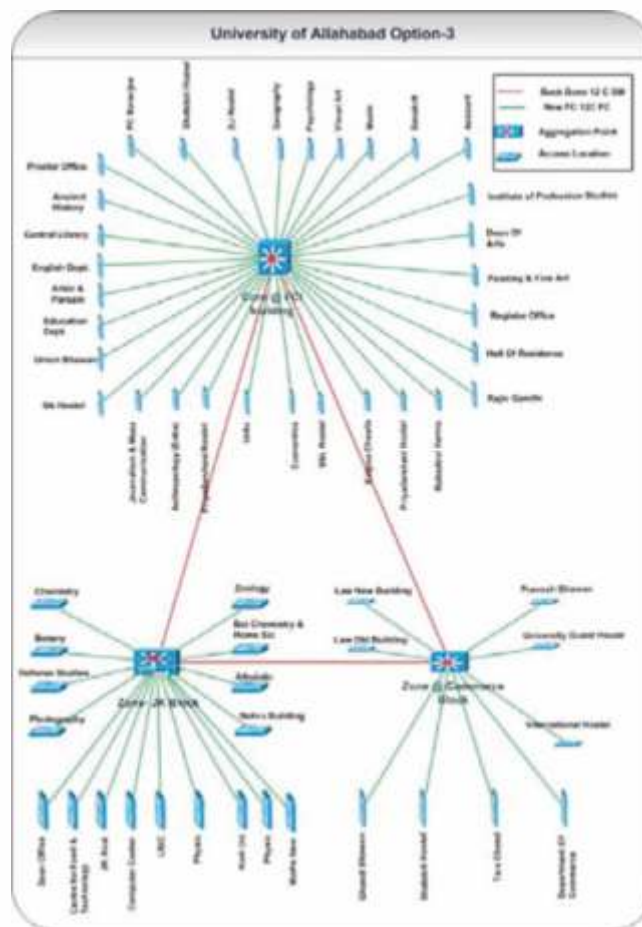


Fig 26: Wi-Fi enabled Campus Network at Allahabad University

ii) Augmentation of Wi-Fi enabled Campus Network at Savitribai Phule Pune University (SPPU), Pune

ERNET India has set up Wi-Fi facility in the building, departments, hostels which were not connected or were not Wi-Fi enabled areas and integrated with the existing Campus network. Project Implementation is completed, made operational and in use by the Users of SPPU. The Augmentation of Wi-Fi enabled campus network at SPPU has improved the Wi-Fi coverage in the campus and facilitate connecting the leftover building to the campus network.

The state of the art components (Access Switch, Wireless LAN Controller, Wireless Access points and Servers, etc.) have been installed to improve Wi-Fi coverage in the SPPU campus network. These items are deployed and integrated in the existing network of SPPU. Servers installed under the project have been configured to facilitate SPPU to deploy various applications and services in their running network.

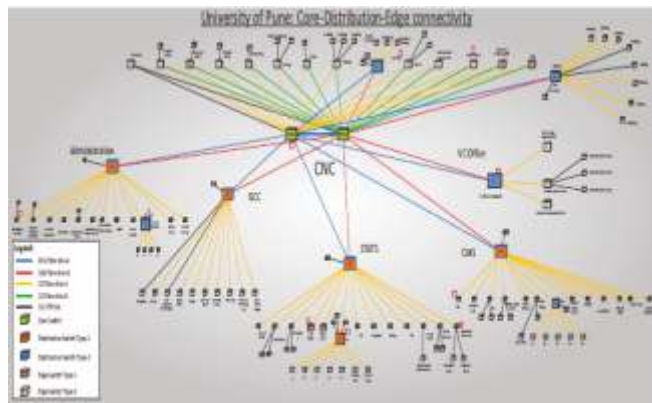


Fig 27: Wi-Fi enabled Campus Network at SPPU, Pune



Fig 28 : Wi-Fi Access Point at SPPU, Pune with protective cage



Fig 29: Outdoor Wi-Fi Coverage at SPPU, Pune

iii) Setting up Wi-Fi enabled Campus Network at Osmania University (OU), Hyderabad,

The Wi-Fi project (phase -1) has been implemented at OU and it is operational. It is a high speed wireless access to Internet & Intranet resources on any-time any-where basis across the coverage area in the campus. Around 6300+ Wi-Fi users

are using it for study purpose, e-Books, e-journals, Research, Digital Teaching, Literature Survey etc. It has improved performance, efficiency, real-time access to information, learning material & data. It enhanced user's participation where user from all part of the world can collaborate & share information/data for research & development & Education .

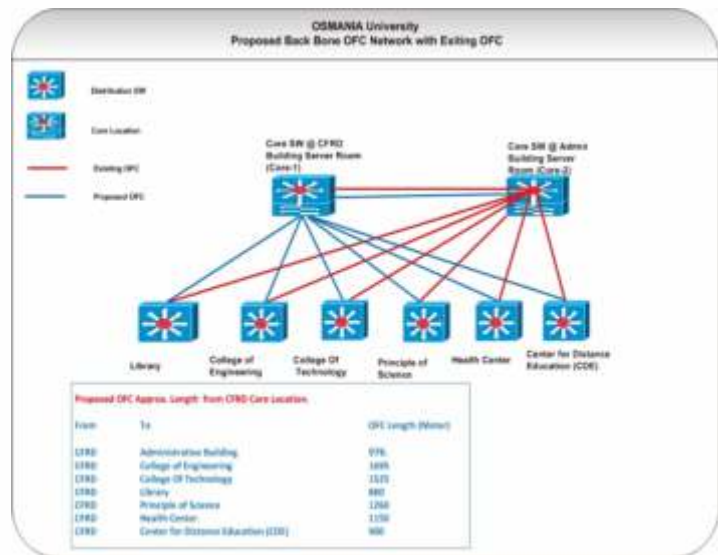


Fig 30

Setting up Wi-Fi enabled Campus Network at Utkal University, Bhubaneswar

The Wi-Fi project (phase -1) has been implemented at Utkal University and it is operational. It is a high speed wireless access to Internet & Intranet resources on any-time any-where basis across the coverage area in the campus. Around 5000+ Wi-Fi users are using it for video lectures, online study material, applying for higher studies & jobs, etc.. It has improved performance, efficiency, real-time access to information, learning material & data. It enhanced user's participation where user from all part of the world can collaborate & share information/data for research & development & Education.

Setting up Wi-Fi enabled Campus Network at North-Eastern Hill University (NEHU), Shillong

The Wi-Fi project (phase -1) has been implemented at NEHU and it is operational. It is a high speed wireless access to Internet & Intranet resources on any-time any-where basis across the coverage area in the campus. Around 3000+ Wi-Fi users are using it for accessing to journals from UGC-Infonet, E-journals, Digital Repository of NEHU, and all Departments' Research and projects and collaborations. It has improved performance, efficiency, real-time access to information, learning material & data. It enhanced user's participation where user from all part of the world can collaborate & share information/data for research & development & Education.

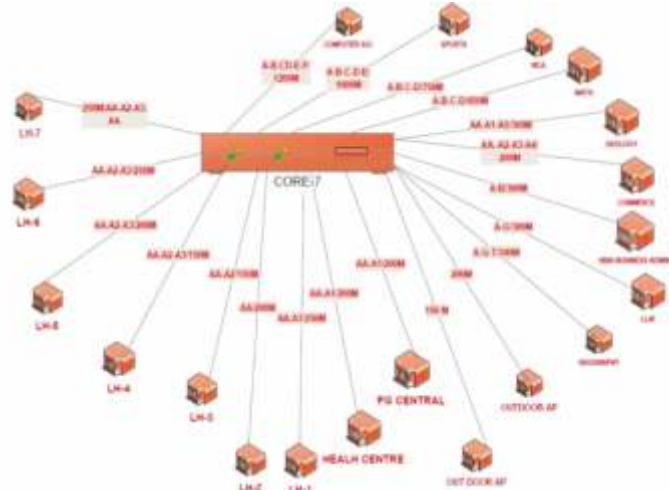


Fig 31

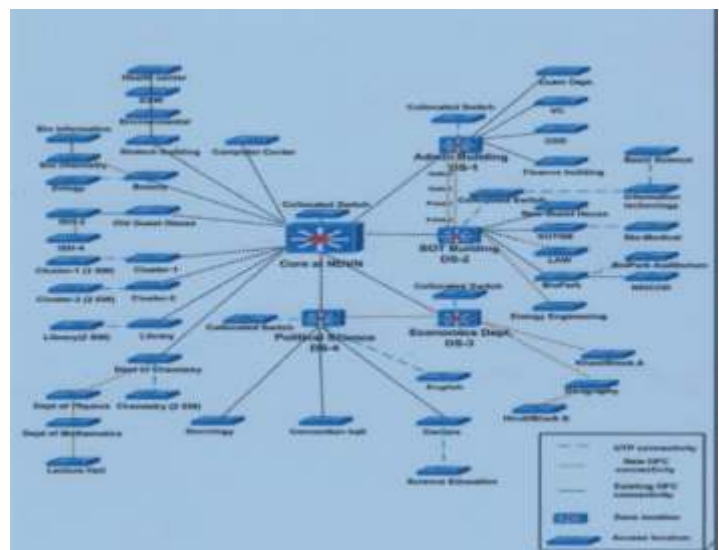


Fig 32

Campus Network for National Institute of Food Technology Entrepreneurship & Management (NIFTEM), Sonapat, Haryana

ERNET India had signed a Memorandum of Understanding (MOU) with NIFTEM for setting up the Network and other IT Infrastructure at NIFTEM campus. Accordingly, a state-of-the-art high speed fiber optic based Campus Network connecting buildings/blocks spread across the campus has been setup. The network architecture is based on Star Topology with two Core locations each connecting to Zonal locations with redundant architecture over 10/1 Gigabit single mode fiber optic backbone. The project has been implemented with redundant 10 Gigabit Fiber optic backbone with 3-tier hierarchical architecture having Core, Aggregation and Access layer connecting all the buildings/blocks/academics, Hostels, Guest House and residences spread across the campus. These locations are Wi-Fi enabled enabling Internet & Intranet access by Wi-Fi enabled devices as smart phones, Tablets, laptops, etc. on any where any time basis across the coverage area. UTP nodes have also been provided in the hostels. The network has been made secure through deployment of Firewall, IPS and centralized Wireless controllers for protection from outside as well as inside of the network. The network can be managed & monitor from central point through Network Management System provisioned for the same. The Wi-Fi network is being used extensively, by NIFTEM faculty, staff and students.

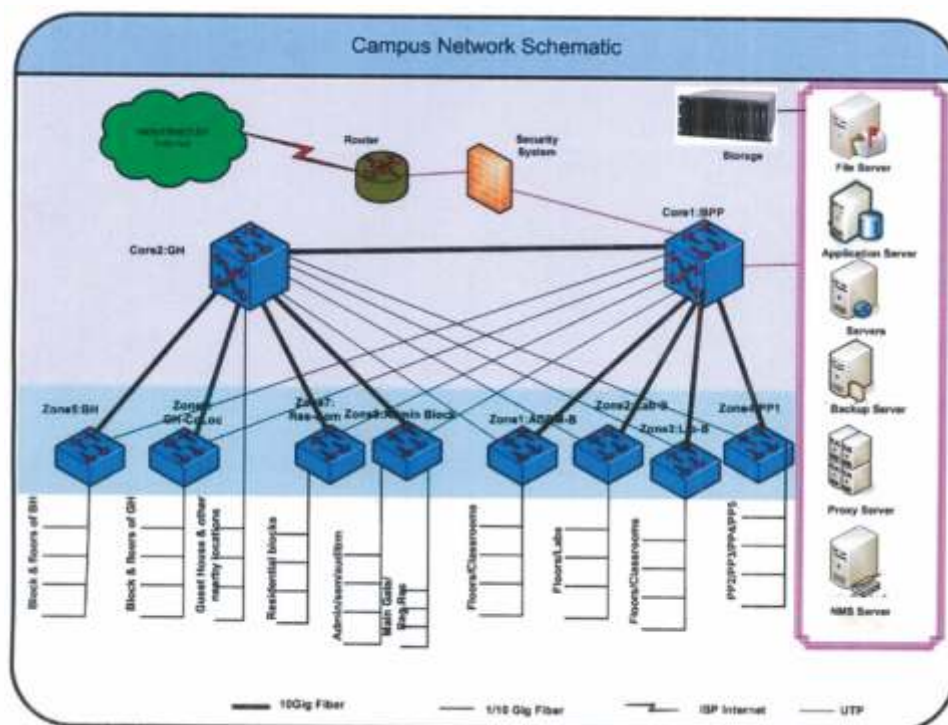


Fig 33 Wi-Fi Enabled Campus Network at NIFTEM

Set up of Project ICT Scheme in the schools under DoE, U.T. of Daman & Diu and DoE, U.T. of Dadra Nagar Haveli

ERNET India has signed a separate Memorandum of Understanding (MoU) with Directorate of Education, Daman & Diu (DD) and Directorate of Education, Dadra Nagar Haveli (DNH) to set up state-of-the-art ICT infrastructure in their schools. As per MoU, 64 ICT labs (i.e. 39 in DNH & 25 in DD) has been setup in both the UTs. The project is fully operational and is being used by the students of the concerned school.



Fig 34



Fig 35

Cyber Performance and Tech-Culture fusion programs under APAN Asi@Connect initiative:

ERNET India as part of the project collaboration under APAN Asi@Connect initiative has been participating in the tech-culture fusion platform including training programs and Cyber Performances in an 18 months project starting from Jul 2017 with 6 beneficiary countries, namely India, Vietnam, Malaysia, Bangladesh, South Korea and Pakistan. The objective is to build a long-term exchange platform for tech-culture fusion that connects applications, data, people and processes and also to understand tech-culture fusion platform issues using the TEIN network. Further experiments are towards overcoming the network delays including latency, setting up camera angle for eye-contact between cyber performers, managing the show regarding main-sub relationship between stages during cyber performance.

The 1st Live Cyber performance event under the project was held in Dec 2017, where artists/musicians from India, Vietnam and Pakistan performed over the TEIN and National Research Education Network (NREN) of each country, and connected on bi-directional transmission of high quality video/audio. ERNET India has organized this event at IIT Madras and student artists from IIT Madras have performed during the event.



NREN Network



Performance by Pakistan



Participation (1st Tech culture event@ Hanoi)
Performance by Vietnam



Live Cyber performance - Musician/ Artist from IIT Madras
Fig: 36

IPv6 Activities – ERNET leads the way to the Future Internet

Internet Protocol version 6 is the new protocol on which the Internet will expand since it offers nearly unlimited number of IP addresses to connect devices to the Internet. However being a very new technology, adoption has been really slow, while number of internet connected devices due to the IT and Telecom revolution has exploded many folds in India. The Smart cities and Smart grids riding on Artificial Intelligence (AI) technologies will use Internet of Things (IoT) which will require IP addresses further putting pressure on the availability of IP numbers.

ERNET India which spearheaded the research in network and related technologies has over a decade of experience in IPv6 networks and application.

Some of the initiatives and activities undertaken by ERNET India in the area of Future Internet technologies revolving around IPv6 are:

- An IPv6 enabled Pan-India Network across the country.
- IPv6 Lab and research infrastructure for demonstrating IPv6 applications and imparting hands-on training facility.
- Participation in global IPv6 experimentation and research

Capacity Building & Skill Development

With the aim of churning out competent technical resource in the area of ICT and IPv6 networking apart from other areas, ERNET designs courses and has a specialized training infrastructure to expose participants to hands-on live environment. These courses help in capacity building and enhancing the skillsets required for propagating ICT knowledge and experience especially in new and emerging technologies such as AI and IoT. It aims at creating pool of trained technical resources for managing and advancing the deployment and use of Information technology in terms of operating the existing computer network / WAN network and on the same time keeping the pace of advancement as per latest technological needs.

IPv6 Training Program for Staff of Government/Ministries and Institutions

- The project is aimed at creating skill set in IPv6 usage and benefits to make the country IPv6 enabled and will create a pool of IPv6 trained workforce resources to take up the challenges that the future Internet will pose to the country in the age of cyber war.
- ERNET has also created a physical Training Infrastructure at Delhi, Chennai & Bangalore to cater to above need which is available across the Internet. Users will able to experience real life hands-on experience to IPv6 configuration and practice on DNS, mail server, proxy, web-server using virtual machines.
- About 500 staff of Central & State Governments trained hands-on on use of IPv6 across the country

An exclusive IPv6 portal having Test tools hosted on the Internet for the general public wanting to test their IPv6 environment

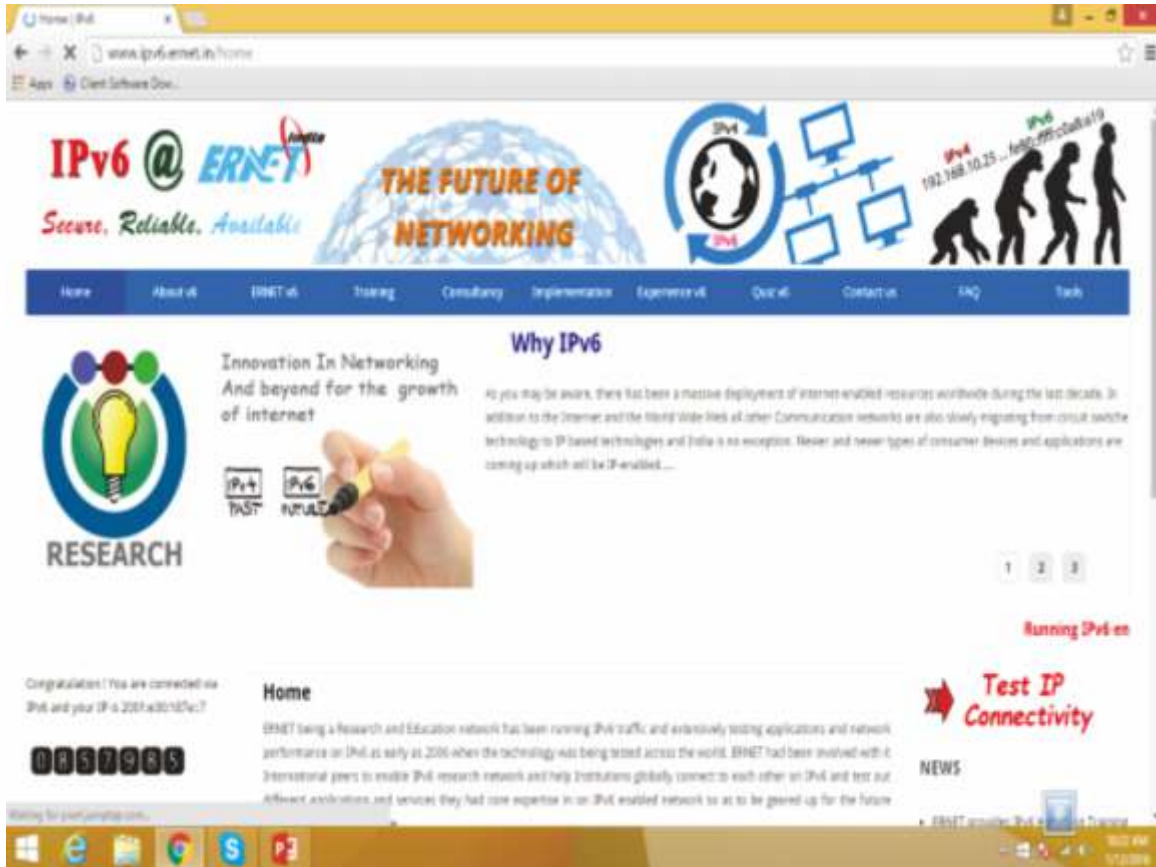


Fig :37

IPV6 Consultancy & Turnkey Implementation Services

The IPv6 task force formed by the Govt. of India envisages that all Government Departments and Organisations should become IPv6 enabled in 2017.

Based on the same and to ensure that technically competent organisations should only act as Consultants and implementers for Government bodies, DoT formally went through a rigorous evaluation process and empanelled ERNET India for providing consulting service and act as implementer to Government Organizations. This was further endorsed by DeitY by nomination ERNET as the nodal agency for IPv6 implementation in DeitY and its organisations.

YETI DNS Project – A live IPv6 only root DNS system test bed

“One World, One Internet, One Namespace” is the essence for the success of today's Internet. The top level of the unique identifier system, the DNS root system, has been operational for 25+ years. It is pivot to make the current Internet useful and make changes in the current Internet Infrastructure which is considered somewhat ossified for stability reasons at present. It is hard to test and implement new ideas evolving to a more advanced level to counter challenges like IPv6-only operation, DNSSEC key/algorithm rollover, scaling issues, etc. In order to make the test more practical, it is also necessary to involve users' environment which is highly diversified, to study the effect of the changes.

ERNET as part of this global initiative is hosting in India 3 of the 25 root servers and 3 out of the 7 root resolver systems operating worldwide under this DNS root server test bed

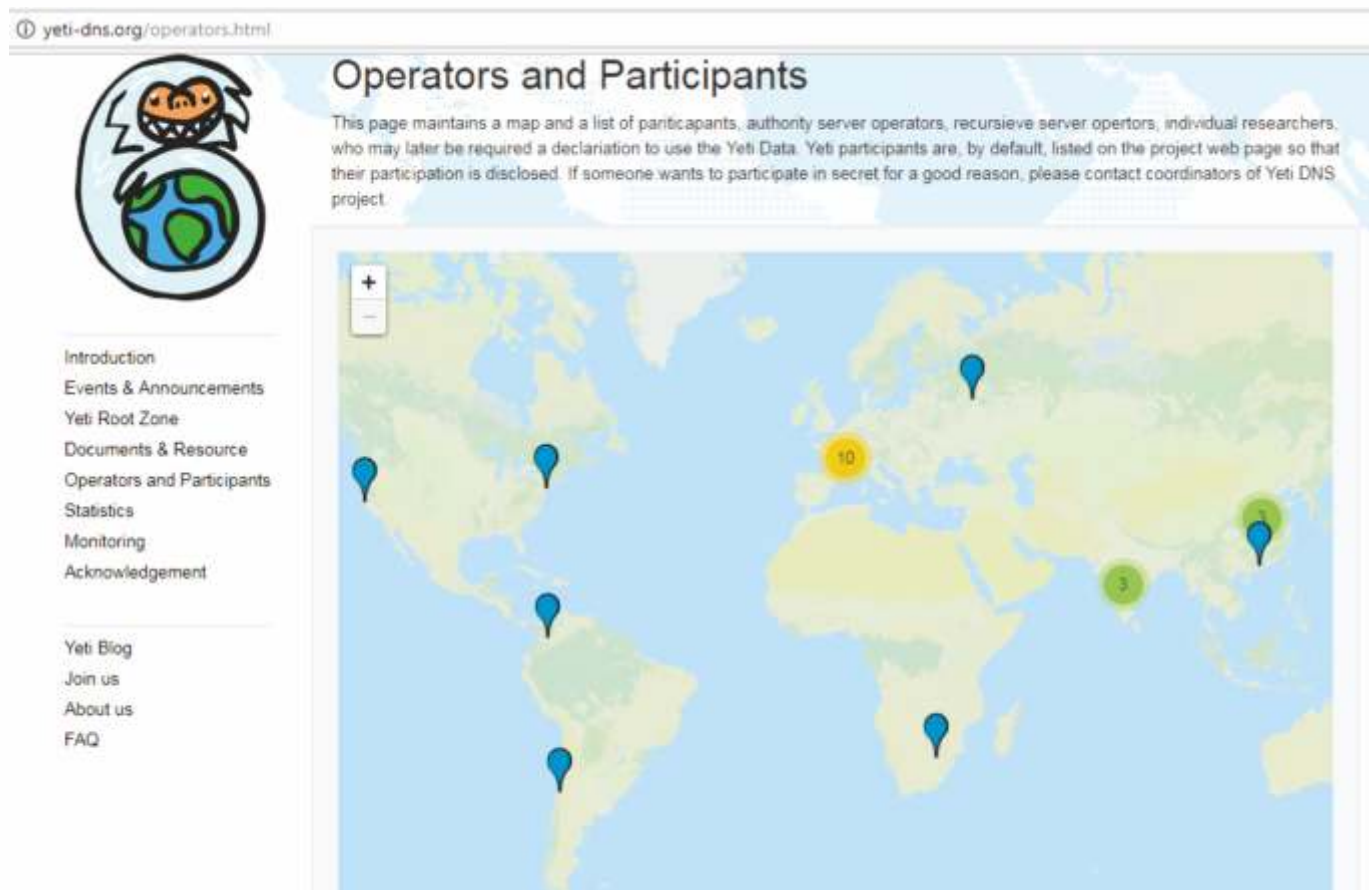








Fig :38

Yeti root servers

Participating Organisation	Country	Role	Domain Name
Beijing Internet Institute	 China	DM and Root server	bii.dns-lab.net
WIDE Project	 Japan	DM and Root server	yeti-ns.wide.ad.jp
TISF	 USA	DM and Root server	yeti-ns.tisf.net
AS59715	 Italy	Root server	yeti-ns.as59715.net
Dahu Group	 France	Root server	dahu1.yeti.eu.org
Bond Internet Systems	 Spain	Root server	ns-yeti.bondis.org
MSK-IX	 Russia	Root server	yeti-ns.ix.ru
CERT Austria	 Austria	Root server	yeti.bofh.priv.at
ERNET India	 India	Root server	yeti.ipv6.ernet.in
Dahu Group	 France	Root server	dahu2.yeti.eu.org
Aqua Ray SAS	 France	Root server	yeti.aquaray.com
SWITCH	 Switzerland	Root server	yeti-ns.switch.ch
CHILE NIC	 Chile	Root server	yeti-ns.lab.nic.cl
Yeti-Shanghai	 China	Root server	yeti-ns1.dns-lab.net
Yeti-Chengdu	 China	Root server	yeti-ns2.dns-lab.net
Yeti-Guangzhou	 China	Root server	yeti-ns3.dns-lab.net
Yeti-ZA	 South Africa	Root server	ca978112ca1bbdcfac 231b39a23dc. yeti-dns.net

Yeti-AU	 Australia	Root server	3f79bb7b435b05321651 daefd374cd.yeti- dns.net
ERNET India	 India	Root server	yeti1.ipv6.ernet.in
ERNET India	 India	Root server	xn--r2bi1c.xn--h2bv 6c0a.xn--h2brj9c (ewy-;srh-Hkkjr)
Monshouwer Internet Diensten	 Netherlands	Root server	yeti.mind-dns.nl
DATEV	 Germany	Root server	yeti-ns.datev.net.
jhcloos	 USA	Root server	yeti.jhcloos.net.

Yeti registered recursive server

Organization	Country
Beijing Internet Institute	China
SBTAP	ITALY
SBTAP	ITALY
Beijing Jiaotong University	China
Chinese academy of sciences computer network information center	China
Tsinghua University	China
ERNET India	India
ERNET India	India
ERNET India	India

Fig :38

E-Learning ICT Centers in 204 schools of Srikakulam, Andhra Pradesh

ERNET India had signed a Memorandum of Understanding (MOU) in January 2014 with Department of School Education, Andhra Pradesh Government to establish e-Learning Information & Communication Technologies (ICT) Infrastructure in 204 Schools located in rural/tribal areas of Srikakulam, Andhra Pradesh with the objective to deliver state-of-art e-Learning ICT infrastructure model in schools.

The ICT Centers are commissioned, operational and functional in all the 204 schools. These ICT centers are being used by school students & teachers for inculcating computer literacy and enhancing education through use of ICT labs. ERNET India had also conducted basic level training for 408 nos. of teachers on ICT. All the schools were provided Internet connectivity through Broadband, Fiber Network and TVWS.

The project is successfully completed in June 2017 and handed over to Education Department of AP State Government for further management of its operations.

Organizational Matters

Organizational Structure

ERNET India is functioning under the overall control and guidance of the Governing Council. Minister of Electronics & Information Technology is the Chairperson of the Council. Members of the Council are from various organizations such as IIT Delhi, Ministry of Health & Family Welfare, Ministry of Human Resources Development, Department of Space, Ministry of Electronics & Information Technology, TRAI, I-CERT, NASSCOM etc.

Human Resources of the Society

There are 48 sanctioned posts in various categories. Out of which 34 are filled and 14 are vacant. To meet the additional requirement of manpower for various ongoing projects, ERNET India has engaged 11 scientific & technical employee and 11 non technical employees on contract. In addition, 54 persons have also been engaged in various categories through outsourcing agencies.

Right to Information Act

In order to promote transparency and accountability in the working of the society, mandatory provisions under the Right to Information Act have been implemented in the society. A Central Public Information Officer and Assistant Public Information Officer are functioning in the society. The mandatory information has been hosted on the website of the society.

Vigilance Activities

The vigilance activity in ERNET India is headed by a part time Chief Vigilance Officer. The vigilance activities of ERNET India are the preventive measures to provide transparent system and to create a healthy working environment.

Status of Sexual Harassment Cases

No complaint of sexual harassment was received during the financial year 2017-18. One complaint of sexual harassment pertaining to the period 2014-15 has been disposed off.

Official Language Implementation

Official Language Implementation committee has been set up to monitor the usage of Hindi in the society. The Committee under the Chairmanship of Director General monitors the usage of the official Language from time to time.

Hindi Pakhwada was organized during September 2017 in ERNET India, Shastri Park, New Delhi. Competition in Hindi noting/drafting, Essay & Poem recitation were held and employees were given awards.

Swachhta Bharat Pakhwada

ERNET India organized "Swachhta Hi Sewa" during 1st to 15th August, 2017 and 1st 15th February, 2018 being part of Swachh Bharat as per instructions and orders of Government of India. The main motive/ objective of "Swachhta Hi Sewa" is to sensitize maintain cleanliness of the office premises, reduce consumption of resources by promoting energy efficient lighting, dispose of old records/ files etc.



Fig :40

Social Initiatives Undertaken by ERNET through Smart Virtual Classroom (SVC)

Virtual classroom is a massive medium for creating general awareness about the initiatives taken by the government. This infrastructure can be of great use towards communicating various messages of social importance and providing trainings to the society like training on disaster management etc. It is potentially reaching a minimum audience of 20,000 students daily with a total reach till now of 39,03,200 Students and 64,814 teachers.

1) IIT-JEE/Medical Entrance Preparation

Smart Virtual Classroom facility is being used by the State of Rajasthan for imparting IIT-JEE/Medical Entrance Exam preparation in collaboration with Coaching Institute at Kota as per a MOU with the State Education Department. Lectures are being conducted from DIET Kota on daily basis and is being attended by schools from all over the state.

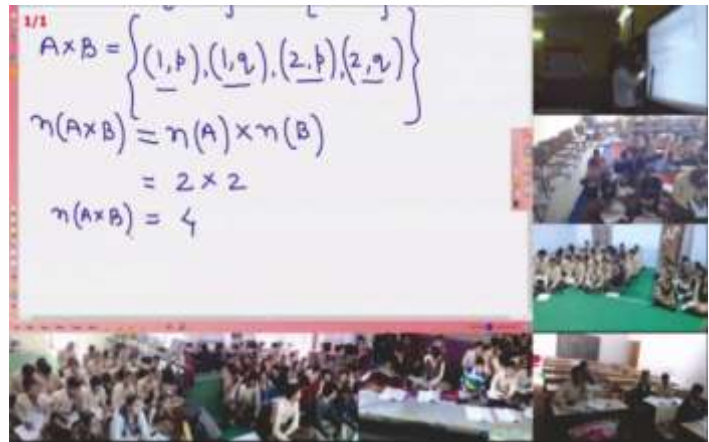


Fig :41

2) Social and Vocational Focus: -

Various sessions/lectures have been conducted towards social awareness and Vocational classes. Social focus includes Environmental Education, Human Right Education, Yoga Education, E-waste Management, Dengue Awareness, Disaster Management, Personal Hygiene, Swachhta Awareness, Promotion of Digital Payment, etc. Vocational focus includes IIT/JEE-Medical preparation, NEET Preparation, Career Counselling, B.Ed. training, etc.



Fig :42



Fig :43

3. Specialized Sessions:-

Honorable Chief Justice, High Court of Himachal Pradesh addressed and reviewed the performance of plantation scheme in the State of Himachal Pradesh and also explained the benefits of plantation to the students of all the Schools under Smart Virtual Classroom Project.



Fig :44

Transition from earlier indirect taxes to the “One Nation One Tax-GST regime” was successfully done in a timely manner

As all of us are aware that GST has been implemented across the country w. e. f. 1st July 2017 and ERNET India has also migrated to GST regime.

We were fully geared-up and successfully transitioned to GST regime. Highlighted below is the list of some of the prominent activities carried-out to ensure a timely and smooth transition:

- Registration under GST law;
- Training and Seminars;
- Setting-up of GST Cell;
- Communication with all the users regarding our GST registration and seeking information about theirs;
- Communication regarding necessary changes that needs to be made in PO/Tender/Rate Contracts;
- Updation of our accounting software to cater GST requirement;
- Information regarding new rate of GST on our services has published on our website.



Fig :45

PoP Coordinators	Node	Address
	ERNET HQ, Delhi	Shri Dilip Barman Director ERNET India Electronics Niketan 6, C.G.O. Complex, Lodhi Road New Delhi - 110 003
	IIT, Guwahati	Prof. D. Goswami Head Department of Computer Science & Engineering, Indian Institute of Technology Guwahati - 781 031
	UoR, Jaipur	Dr. Shalendra Kumar Gupta Director Infonet Center, New CDPE Building University of Rajasthan, JLN Marg Jaipur - 302004NIC, Salt Lake, Kolkata
	NIC, Kolkata	Shri Dilip Barman Director ERNET India Electronics Niketan 6, C.G.O. Complex, Lodhi Road New Delhi - 110 003
	VSAT Hub at STPI, Bangalore	Shri Avanindra Singh Director ERNET India New Delhi
	ERNET PoP at IIT Madras ,Chennai	Dr. A. Paventhan, Director Regional Center ,Chennai, ERNET India

PRASAD AZAD & CO.
CHARTERED ACCOUNTANTS

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19-KASTURBA GANDHI MARG
NEW DELHI-110 001
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E-mail : info@prasadazad.com

INDEPENDENT AUDITOR'S REPORT

**The Governing Council,
ERNET India,
New Delhi**

We have audited the accompanying financial statements of **ERNET India ("the Society")**, which comprise the Balance Sheet as at 31st March'2018 and the Income & Expenditure Account for the year then ended and a summary of significant accounting policies and other explanatory information.

MANAGEMENT'S RESPONSIBILITY FOR THE FINANCIAL STATEMENTS

The Society's management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance of the Society in accordance with the Societies Registration Act'1860 ("the Act") and the applicable Accounting Standards issued by Institute of Chartered Accountants of India ("the ICAI"). This responsibility also includes maintenance of adequate accounting records in accordance with the generally accepted accounting principles in India for safeguarding the assets of the Society and for preventing and detecting frauds and other irregularities, selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal controls that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatements, whether due to fraud or error.

AUDITOR'S RESPONSIBILITY

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the ICAI. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal controls relevant to the Society's preparation and fair

presentation of the Financial Statements, in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by the management as well as, evaluating the overall presentation of the financial statements.

We believe that the audit evidences we have obtained is sufficient and appropriate to provide a basis for our audit opinion on the financial statements.

OPINION

In our opinion and to the best of our information and according to the explanations given to us, the aforesaid financial statements give the information required in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India of the state of affairs of the Society as at 31st March 2018, and excess of Income over Expenditure for the year ended on that date.

EMPHASIS OF MATTER

We draw attention to:

1. EARMARKED FUNDS FOR NETWORK RESEARCH SCHEMES:

- (a) We observed that separate bank accounts are not maintained by the Society for grants received for the specified projects.
- (b) Status report as on 31st March' 2018 of all the Projects in hand of the Society is not available. Accordingly, classification of running projects under "Earmarked Funds for Network Research Scheme" and of completed projects under the "Receivables/ Payables Under Projects" in the financial statements could not be verified.

2. FIXED ASSETS:

- (a) Physical verification of fixed assets was carried out in FY 2014-15 but their reconciliation with the Fixed Asset records has not been completed. Further, physical verification was again carried out in the FY 2017-18 but the same is yet to be completed, also reconciliation with records not carried out (See Note No.3 of Schedule 14).
- (b) Provision of Rs 2,22,88,367/- for fixed assets lost in Fire and for Rs 88,63,742/- for impairment of Assets made in earlier years are continuing without any corresponding adjustments from the Fixed Assets and depreciation on such fixed assets is continuously being charged.
- (c) Depreciation for the year amounting to Rs. 1,15,24,177/- on fixed assets acquired in earlier years from 'Capital Grant in Aid (DIT)' and Rs. 36,96,236/- on fixed assets acquired in earlier years from 'Capital Fund (GIA) Fire Accident' has been directly charged to these Grants instead of passing it through the Income and Expenditure Account of the Society.

3. INTERNAL CONTROLS AND ACCOUNTING SYSTEM:

The internal controls and accounting system of the Society are not commensurate with the size, nature and volume of transactions of the Society in respect to the following-

- (i) In respect to booking of expenses and income on accrual basis there is no laid down system to identify payables for expenses / liability to be incurred upto the year-end. Accounting Policy No 2 of Schedule 13 on 'Use of Estimates' and Accounting Policy No. 10 of Schedule 13 on 'Provisions' were not fully followed, due to which the Society had to book prior-period expenses of Rs. 78,16,273/- and prior-period income of Rs. 1,70,53,425/- during the year;
 - (ii) In respect to identification and provisioning for old outstanding Advances and Receivables;
 - (iii) In respect to adjustment of old outstanding Sundry Creditors;
 - (iv) In respect to non - booking of liability for Service Tax and Goods & Service Tax (GST) on BSNL/MTNL leased line charges reimbursed by the Leased Line end users;
4. No provision has been made by the Society for demands raised by Department of Telecommunication (DoT) amounting to Rs. 39,77,55,315/- on provisional annual assessment of Licence Fee for the financial years 2014-15, 2015-16 and 2016-17 and the same has been disclosed under Contingent Liabilities in Note No. 2 (ii) of Schedule 14.

Our opinion is not qualified in respect of above matters.

REPORT ON OTHER LEGAL AND REGULATORY REQUIREMENTS

We report that:

- a) We have sought and obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purposes of Audit;
- b) In our opinion, proper books of account as required by law have been kept by the Society so far as it appears from our examination of those books;
- c) Balance Sheet and Income & Expenditure Account dealt with by this report are in agreement with the books of account;
- d) In our opinion, the aforesaid financial statements comply with the applicable Accounting Standards issued by the ICAI.

**For Prasad Azad & Co.
Chartered Accountants
Firm Reg. No. 001009N**

**Place : New Delhi
Dated: 27th August, 2018**

**(K.M. Azad)
Partner
Membership No. 5125**

**REPLIES OF POINTS RAISED IN AUDITOR'S REPORT FOR
THE FINANCIAL YEAR 2017-18**

S. No.	AUDITOR'S COMMENTS	REPLIES
1.	Earmarked Funds For Network Research Schemes	
a.	We observed that separate bank accounts are not maintained by the Society for grants received for the specified projects.	Society is maintaining separate project wise ledger in the books of accounts. Agenda for giving power for opening separate bank account was put up to Executive Committee and the Committee suggested that instead of opening separate bank accounts for every project, single account should be maintained and books should be maintained separately for every project.
b.	Status report as on 31st March 2018 of all the projects in hand of the society is not available. Accordingly, classification of running projects under "Earmarked Funds for Network Research Scheme" and of completed projects under the "Receivables/Payables Under Projects" in the financial statements could not be verified.	The same was provided to the auditor during the course of audit.
2.	Fixed Asset	
a.	Physical verification of fixed assets was carried out in FY 2014-15 but their reconciliation with the Fixed Assets records has not been completed. Further, physical verification was again carried out in the FY 2017-18 but the same is yet to be completed, also reconciliation with records not carried out.	Observations made by auditors have been noted. The process is on and it is expected to be closed in this financial year.
b.	Provision of Rs.2,22,88,367/- for fixed assets lost in Fire and for Rs 88,63,742/- for Impairment of Assets made in earlier years are continuing without any corresponding adjustments from the Fixed Assets and depreciation on such fixed assets is continuously being charged.	Once the exercise of Fixed Asset verification gets completed and assets lost in fire are identified; their reconciliation will need to be done. Subsequent to all these, assets for which provision was created can be taken out from the Fixed Asset register and books of accounts.

S. No.	AUDITOR'S COMMENTS	REPLIES
c.	Depreciation for the year amounting to Rs 1,15,24,177/- on fixed assets acquired in earlier years from 'Capital Grant in Aid (DIT)' and Rs 36,96,236/- on fixed assets acquired in earlier years from 'Capital Fund (GIA) Fire Accident' has been directly charged to these Grants instead of passing it through the Income and Expenditure Account of the Society.	It does not have any impact on either Income and Expenditure or Balance Sheet. It is a method of presentation which is consistently being followed since the initiation of society.
3.	Internal Controls and Accounting System The internal controls and accounting system of the Society are not commensurate with the size, nature and volume of transactions of the society in respect to the following -	
i.	In respect to booking of expenses and income on accrual basis there is no laid down system to identify payables for expenses /liability to be incurred upto the year-end. Accounting Policy No. 2 of Schedule 13 on 'Use of Estimates' and Accounting Policy No. 10 of Schedule 13 on 'Provisions' were not fully followed, due to which the Society had to book prior-period expenses of Rs. 78,16,273/- and prior-period income of Rs. 1,70,53,425/- during the year.	Even though accounting systems are in place to identify and record/book every transaction pertaining to that particular financial year in that year itself. Sometimes due to the delayed/ non receipt of information from other divisions, prior period income and expenditures is required to be booked.
ii.	In respect to identification and provisioning for old outstanding Advances and Receivables.	ERNET India is adjusting the old outstanding advances and receivables from time to time.
iii.	In respect to adjustment of old outstanding Sundry Creditors.	Sundry Creditors during the last financial year were Rs.12,33,22,760/- which got reduced to Rs.10,82,34,674/- in the current financial year.
iv.	In respect to non-booking of liability for Service Tax and Goods & Services Tax(GST) on BSNL / MTNL leased line charges reimbursed by the Leased line end users;	The practice has been changed from the financial year 2018-19.

S. No.	AUDITOR'S COMMENTS	REPLIES
4.	No provision has been made by the Society for demands raised by Department of Telecommunication (DoT) amounting to Rs. 39,77,55,315/- on provisional annual assessment of License Fee for the financial years 2014-15, 2015-16 and 2016-17 and the same has been disclosed under 'Contingent Liabilities ' is Note No. 2(ii) of Schedule 14.	<p>In our view, the demand raised by DOT is contrary to the provisions of the unified license agreement. Calculation of AGR is carried out in accordance with the format annexed to our license agreement; as per that format, our AGR becomes Nil. But in view of clause 18.2 of the Unified License Agreement, ERNET India is liable to pay a minimum license fee of 10% of Entry Fees from second year onwards. Accordingly, ERNET India vide its letter dated 03.07.2018. had already contested the demand raised by DOT and also paid (by way of adjustment entry) the minimum amount of license fee payable against the amount receivable from DOT.</p> <p>Further, as far as inclusion of income from other Non ISP activities are concerned e.g. Interest Income, Network Research Receipts etc as the matter is pending before the Hon'ble Supreme Court of India in the case of Vodafone West Ltd. v/s Union of India, no provision has been made as the demand itself is provisional but the same has been disclosed as Contingent Liability.</p>
	Report on Other Legal and Regulatory Requirements	
	<p>We have sought all the information and explanations, which to the best of our knowledge and belief were necessary for the purposes of Audit.</p> <p>In our opinion, proper books of account as required by law have been kept by the society so far as appears from our examination of those books.</p> <p>Balance Sheet and Income & Expenditure Account dealt with by this report are in agreement with the books of account. In our opinion, the aforesaid financial statements comply with the applicable Accounting Standards issued by ICAI.</p>	No Comments.

BALANCE SHEET AS AT 31.03.2018

(Amount in ₹)					
CORPUS/CAPITAL FUND AND LIABILITIES	Schedule	Current Year	Previous Year		
Corpus/ Capital Fund	1	1,171,793,126	1,161,470,505		
Equipment Replacement Fund		228,847,891	228,847,891		
Earmarked Funds for Network Research Schemes	2	98,443,206	275,071,977		
Current Liabilities and Provisions :-	3				
Other Current Liabilities		824,901,338	296,994,159		
Provisions		642,998,243	571,026,364		
TOTAL		2,966,983,804	2,533,410,896		
ASSETS					
Fixed Assets	4	180,330,887	198,769,648		
Current Assets, Loans, Advances etc.:-	5				
Inventories		95,125	72,926		
Sundry Debtors		45,589,774	39,099,380		
Receivables under Earmarked Network Research Schemes		201,653,382	43,320,748		
Bank Balances with Scheduled Bank		2,250,722,044	2,012,078,831		
Loan and Advances		288,592,592	240,069,362		
TOTAL		2,966,983,804	2,533,410,896		
Significant Accounting Policies Notes on Accounts	13 14				

Auditor's Report

In terms of our report
of even date
M/s Prasad Azad & Co.
Chartered Accountants
FIRM Reg. No. 001009N

K.M. Azad
Partner
M.No. 05125

Place : New Delhi
Date : 27.08.2018

For and on behalf of ERNET India

(Vipin Aggarwal)
Director (Finance)

(Meharban Singh)
Sr. Director &
Registrar & CPO (I/C)

(Dr. Neena Pahuja)
Director General

Place : New Delhi
Date : 01.08.2018

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2018

(Amount in ₹)

INCOME	Schedule	Current Year	Previous Year
1. Income from Subscribers	6	147,711,824	78,779,112
2. Sales of Equipment		-	38,304
3. Network Research Receipt	2A	338,849,900	791,256,915
4. Net Interest Earned	7	106,487,360	157,594,208
5. Other Income	8	29,658,037	39,507,629
6. Increase/ (Decrease) in Inventories	9	-	(683,124)
TOTAL (A)		622,707,121	1,066,493,044
EXPENDITURE			
1. Operative Expenses	10	80,346,178	61,603,579
2. Purchase of Equipment		-	31,800
3. Network Research Expenditure	2A	338,849,900	791,256,915
4. Establishment Expenses	11	91,212,307	56,565,448
5. Administrative Expenses	12	81,247,719	52,965,171
6. Depreciation	4A & 4D	4,069,099	4,630,333
TOTAL (B)		595,725,203	967,053,245
Balance being excess of Income over Expenditure (A-B)		26,981,918	99,439,799
Profit Before Tax		26,981,918	99,439,799
Provision For Tax		-	-
NET Profit / (Loss) After Tax		26,981,918	99,439,799
Significant Accounting Policies	13		
Notes on Accounts	14		

Auditor's Report

In terms of our report
of even date
M/s Prasad Azad & Co.
Chartered Accountants
FIRM Reg. No. 001009N

K.M. Azad
Partner
M.No. 05125

Place : New Delhi
Date : 27.08.2018

For and on behalf of ERNET India

(Vipin Aggarwal)
Director (Finance)

(Meharban Singh)
Sr. Director &
Registrar & CPO (I/C)

(Dr. Neena Pahuja)
Director General

Place : New Delhi
Date : 01.08.2018

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2018
(Amount in ₹)

SCHEDULE 1 - CORPUS/CAPITAL FUND	Current Year	Previous Year
Balance as at the beginning of the year	945,413,061	845,973,262
Add : Excess of Income over Expenditure	26,981,918	99,439,799
Balance of Corpus Capital Fund	972,394,979	945,413,061
CAPITAL GRANT IN AID (DIT)		
Balance as at the beginning of the year	191,053,303	205,804,586
Less : Depreciation on Grant in aid Assets	11,524,177	13,838,783
Less : Loss on Grant in aid Assets	1,438,884	912,500
	178,090,242	191,053,303
Capital Fund (GIA) Fire Accident	25,004,141	29,666,548
Less : Depreciation on Grant in aid	3,696,236	4,662,407
	21,307,905	25,004,141
TOTAL BALANCE TRANSFERRED TO BALANCE SHEET (A+B+C)	1,171,793,126	1,161,470,505

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2018

(Amount in ₹)

SCHEDULE 2 - EARMARKED FUNDS FOR NETWORK RESEARCH SCHEMES (In Progress)	GIA - Enabling all Schools with Smart Virtual Classroom	GIA inform security Education & Awareness-Ph-II	GIA-Ministry of Social Justice & Empowerment	GIA-Setting up of WIFI Campus network in 4 universities	GIA-NASSCOM-ERNET Centre of Excellence	GIA-Setting up of WIFI Campus Allahabad university	Sub-Total A
a) Opening balance of the projects	1,775,123	534,639	105,612,494	1,467,555	19,560,088	4,963,108	133,913,007
b) Additions to the projects:							
(i) Grant in aid Received	-	-	-	-	-	-	-
(ii) Grant in aid Returned / Adjustment	-	-	-	-	19,107,521	-	19,107,521
(iii) Interest	-	10,115	3,878,046	-	386,331	192,143	4,466,635
iv) Penalty recovered credited to the project	26,403,813	-	-	-	-	-	26,403,813
TOTAL (a+b)	28,178,936	544,754	109,490,540	1,467,555	838,898	5,155,251	145,675,934
Expenditure Incurred (c)	151,599,960	639,984	28,712,295	2,258,688	838,898	293,658	184,343,483
NET BALANCE AS AT THE YEAR-END (a+b)-(c)	(123,421,024)	(95,230)	80,778,245	(791,133)	-	4,861,593	(38,667,549)

(Amount in ₹)		PREVIOUS YEAR		CURRENT YEAR		Sub Total B		Project - Tea Research Board		Project Dir of Education Daman & Diu		Project - Directorate of Edu, Silvassa UT Dadar & Nagar Haveli		GIA-VSAT at North Eastern State of the country		GIA - E Classroom Infrastructure at 50 Colleges MoHFW		SCHEDULE 2 - EARMARKED FUNDS FOR NETWORK RESEARCH SCHEMES/ In Progress	
a) Opening balance of the projects		788,311,404		260,123,762		126,210,755		342,154		55,151,631		86,843		70,630,127		-			
b) Additions to the projects:		188,125,136		43,946,301		43,946,301		-		16,667,833		27,278,468		-		-			
(i) Grant in aid Received		-		-		-		-		-		-		(6,975,216)		-			
(ii) Grant in aid Returned/ Adjustment		-		12,132,305		(6,975,216)		-		-		-		-		-			
(iii) Interest		23,720,776		5,155,580		688,945		-		-		-		688,945		-			
iv) Penalty recovered credited to the project		33,900,465		28,238,250		1,834,437		-		58,318		30,000		1,746,119		-			
TOTAL (a+b)		1,034,057,781		349,596,198		165,705,222		342,154		71,877,782		27,395,311		66,089,975		-			
Expenditure Incurred (c)		788,523,603		338,849,900		154,506,417		451,292		68,473,540		20,093,151		63,993,010		1,495,424			
NET BALANCE AS AT THE YEAR-END (a+b)-(c)		245,534,178		(27,468,743)		11,198,805		(109,138)		3,404,242		7,302,160		2,096,965		(1,495,424)			
ADD: Excess Amount -Spent under projects (Transferred to Schedule 5)		29,537,799		125,911,949															
Total Earmarked Network Research Schemes (Transferred to Balance Sheet)		275,071,977		98,443,206															

SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2018

SCHEDULE 2 A - EARMARKED FUND FOR NETWORK RESEARCH SCHEMES COMPLETED					(Amount in ₹)
	GIA Srikakulam District, (E-Learning ICT centre in 204 school of srikakulam, District Andhra Pradesh)	GIA - Setting Up the Eduroam Services in India	CURRENT YEAR	PREVIOUS YEAR	
a) Opening balance of the schemes	(8,048,112)	(500,302)	(8,548,414)		1,378,655
b) Additions to the schemes:					
(i) Grant-in-aid Received	-	-	-	-	-
(ii) Receipts Transferred from Scheme in Progress	-	-	-	-	-
(iii) Interest	-	-	-	-	151,612
(iv) Grant in aid Returned / Adjustment	8,048,112	(506,737)	7,541,375	(5,006,407)	(5,006,407)
(v) Grant Transfer to Receivable A/c (Refer Schedule 5 Amount Receivable under projects)	-	1,007,039	1,007,039	6,209,452	6,209,452
TOTAL (a+b)	-	-	-	-	2,733,312
c) Expenditure towards projects					
(i) Balance Amount Transfer to Advances Received.	-	-	-	-	2,733,312
(ii) Expenditure Transferred from Scheme in Progress(Schedule 2)	-	-	338,849,900	788,523,603	
TOTAL (c)	-	-	338,849,900	791,256,915	
Earmarked Fund for Network Research Schemes Completed					
Less: Amount transferred to advance under other Current Liabilities (Refer Schedule-3-Advances Received from Others)	-	-	338,849,900	791,256,915	
	-	-	-	-	-
	-	-	338,849,900	791,256,915	

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2018

		(Amount in ₹)	
SCHEDULE 3 - CURRENT LIABILITIES AND PROVISIONS		Current Year	Previous Year
A	CURRENT LIABILITIES		
1	Sundry Creditors for Goods and Services	110,212,235	125,913,548
2	Advances Received for Projects and Other Business Operations	569,795,991	33,047,171
3	EMD and Other Misc. Receipts	3,175,812	3,746,129
4	Amount Payable to Transit Nodes	4,497,632	4,678,367
5	TDS Payable	11,539,566	10,533,765
6	Taxes Payable	5,057,359	3,737,014
7	Expenses Payable	5,270,088	1,291,682
8	Contributory Provident Fund	911,954	1,437,006
9	NPS Contribution	607,987	92,784
10	Sales Tax Payable	-	4,983,804
11	Retention Money	113,832,714	107,532,888
	TOTAL (A)	824,901,338	296,994,159
B	PROVISIONS		
1	Gratuity	20,465,166	8,888,991
2	Accumulated Leave Encashment	24,669,823	19,216,703
3	Provision for Tax	356,000,000	356,000,000
4	Provision for impairment of Fixed Assets	8,863,742	8,863,742
5	Sundry Creditor payable	213,690,466	161,058,737
6	Misc. Liabilities	19,309,046	16,998,191
	TOTAL (B)	642,998,243	571,026,364
	TOTAL (A+B)	1,467,899,581	868,020,523
ANNEXURE TO SCHEDULE 3			
SUNDRY CREDITORS FOR GOODS		(Amount in ₹)	
S.No.	Name of the Party	Current year	Previous Year
1	Echo Industries	142,947	142,947
2	HCL Comnet Ltd.	20,840,526	22,373,369
3	HCL Infosystems Ltd.	1,717,691	1,717,691
4	Hewlett Packard India Sales Pvt. Ltd.	3,954,705	3,954,705
5	Royal Co-Operative Industrial (p) Society Ltd	5,851	-
6	Sunfest Infratech & Power Ltd.	-	75,790
7	Transline Technologies Pvt. Ltd.	-	16,782,818
8	Tulip IT Services Ltd.	-	4,883,607
9	Vayam Technologies Ltd.	16,357	478,767
10	Vinayak compserve Pvt. Ltd.	-	74,966
11	Wipro Ltd.	5,229,392	5,229,392
	Sub Total	31,907,469	55,714,052
S.No.	SUNDRY CREDITORS OTHERS	Current year	Previous Year
1	Airtel Mobile No. 9599788298	-	1,955
2	Airtel Mobile No. 9599788394	-	1,955
3	Antrix Corporation Ltd.	42,574,899	30,228,355
4	Balmer Lawrie & Co Ltd	230,813	233,001
5	Banglore One	27,368	27,368
6	Bharat Sanchar Nigam Ltd.	10,151,169	9,293,835
7	Bharati Airtel Ltd	570	570
8	Controller of Accounts	3,946	3,946

9	LIC of India	-	20,000
10	Mahanagar Telephone Nigam Ltd, New Delhi	1,798,453	1,798,453
11	National Informatics Centre Service Inc (Manpower)	-	5,425
12	NBCC	2,339,735	5,994,930
13	NIXI	-	12,957
14	Offcom Systems Pvt. Ltd.	670,075	670,075
15	Om Sales Corporation	1,050	-
16	Prem Gupta & Co	6,000	75,000
17	Presto Infosolution Pvt. Ltd.	11,649,210	11,750,332
18	Professional Cool Tech	7,200	7,200
19	Railtel Corporation of India Ltd.	71,763	71,763
20	RCIL.A/c. RIS5000005189891	30,006	30,006
21	Reliance Communication Infrastructure Ltd.	4,609,884	4,491,725
22	SIFY Limited	1,675,633	1,675,633
23	Tata Communications Ltd.	126,792	126,792
24	Tulip Telecom Ltd.	74,326	74,326
25	Umang Services	198,537	198,537
26	Vaish Associates	-	47,318
27	Wi-Fi communications Pvt. Ltd.	79,776	113,166
28	Woodfun Interior Decorators	-	654,085
Sub Total		76,327,205	67,608,708
S.No.	MTNL/BSNL CHARGES PAYABLE FOR LEASED LINE USERS	Current year	Previous Year
1	BSNL / MTNL Charges 2017-18	402,961	-
2	Mahanagr Telephone Nigam Ltd 2015-16	296,822	296,822
3	BSNL/MTNL 15-16	1,008,276	1,008,276
4	BSNL/MTNL 16-17	269,502	1,285,690
Sub Total		1,977,561	2,590,788
Grand Total		110,212,235	125,913,548
S.No.	ADVANCE RECEIVED FROM OTHERS	Current year	Previous Year
1	Dial Up Users	1,103	1,103
2	Email Hosting	48,314	48,314
3	Group Connectivity	176,508	144,565
4	ICAR- New Delhi	869,791	960,559
5	KVK	28,884	28,884
6	Leased Line Users	3,940,464	4,943,506
7	MPLS	1,448,215	1,465,442
8	Radio Link	9,454	37,054
9	SCPC VSAT	638	350,991
10	Others	3,656	3,656
11	VSAT	2,986,914	1,605,147
12	Web Hosting	221,627	293,507
13	Domain Debtors	24	-
14	DANTE (APAN)	13,298	13,298
15	Krishi Vigyan Kendra	17,426	17,426
16	Z.P. Madhyamika Shalla (Girls) Ambajogai (685)	3,371	3,371
17	CIC- Govt. Sr. Sec. School	28,913	28,913
18	IIPA, New Delhi	1,972	1,972
19	Project PDFMD Nainital	4,220,072	4,220,072
20	NIXI Setting up of Internet Connectivity	516,695,000	-
21	Proj. SCPC VSAT Link at Port Blair	23,994,300	-
22	Video Conference Income Tax	3,268,193	(450,238)
23	GIA payable	11,817,854	19,329,629
Total		569,795,991	33,047,171

S.No.	OTHER CURRENT LIABILITIES	Current year	Previous Year
1	Ernest Money Deposit against Tenders	1,620,000	2,240,000
2	Receipt from User	894,859	894,859
3	Performance Security Deposit	660,953	611,270
	Total	3,175,812	3,746,129
S.No.	AMOUNT PAYABLE TO TRANSIT NODES	Current year	Previous Year
1	C-DAC Mumbai	2,356,253	2,356,253
2	IIT, Guwahati	197,031	377,766
3	IIT, Kanpur	119,037	119,037
4	OCAC Bhubneshwar	1,825,311	1,825,311
	Total	4,497,632	4,678,367
S.No.	PROVISION FOR TDS	Current year	Previous Year
1	TDS - Contractors	2,318,464	4,434,917
2	TDS - Professional charges	6,683,911	5,406,194
3	TDS - Salaries	670,491	8,010
4	TDS - Rent	11,700	684,644
5	TDS - Interest	1,855,000	-
	Total	11,539,566	10,533,765
S.No.	TAXES PAYABLE	Current year	Previous Year
1	CGST Payable	1,271,880	-
2	SGST Payable	1,271,880	-
3	Service Tax Payable	-	1,195,664
4	Service Tax Payable old	2,513,599	2,563,793
5	Swachh Bharat Cess	-	(22,443)
	Total	5,057,359	3,737,014
S.No.	EXPENSES PAYABLE	Current year	Previous Year
1	Books, New Paper Periodical	4,197	15,059
2	Children Education Allowance	507,180	139,500
3	Conveyance Charges Payable	14,648	35,076
4	Expense Payable	216,128	123,601
5	Medical Expenses	490,104	442,770
6	LTC Expenses Payable	156,428	-
7	Salary Payable	3,546,307	195,574
8	Arrear Payable	181,642	-
9	Telephone Expenses	153,454	340,102
	Total	5,270,088	1,291,682
S.No.	RETENTION MONEY	Current year	Previous Year
1	Kendriya Bhandar	28,800	28,800
2	Nikom Infrsolutions Pvt. Ltd	94,701	94,701
3	Redington (India) Ltd.	56,904	56,904
4	Akal Information Systems Ltd.	2,010,756	-
5	HCL Comnet Ltd.	1,532,843	-
6	IL & FS EDU & Tech Services Ltd	-	10,927,923
7	Ricoh India Limited	84,059,624	96,424,560
8	RV Solutions Pvt. Ltd.	828,962	-
9	Silica Infotech P Ltd.	2,189,482	-
10	Sunfest Infratech & Power Ltd.	75,790	-
11	Transline Technologies Pvt. Ltd.	16,879,784	-
12	Tulip IT Services Ltd.	4,883,607	-
13	Vayam Technologies Ltd.	462,410	-
14	Vinayak compserve Pvt. Ltd.	74,966	-
15	Woodfun Interior Decorators	654,085	-
	Total	113,832,714	107,532,888

SCHEDULE 4 - FIXED ASSETS

		(Amount in ₹)		
S.No.	ASSETS	Schedule	Current Year	Previous Year
1	Fixed Assets Acquired From Capital Fund	4A	62,754,943	64,033,991
2	Fixed Assets Acquired From Grant-in-aid	4B	117,859,899	131,119,570
3	Fixed Assets Acquired to rebuild the infrastructure destroyed in fire	4C	20,587,166	24,283,402
4	Fixed Assets- Intangibles	4D	1,417,246	1,621,052
	Total (4A+4B+4C+4D)		202,619,254	221,058,015
	Less : Provision for Assets lost in fire		(22,288,367)	(22,288,367)
	Total		180,330,887	198,769,648

FIXED ASSETS (CAPITAL FUND) (As per Income Tax Act ,1961) 2017-18										(Schedule 4A)
S.No	Particulars	Rate	Opening WDV as at 01.04.2017	Addition Before 01.10.2017	During the Year After 01.10.2017	Deletion/ Adjustments	Total	Depreciation During the Year	Closing WDV as at 31.03.2018	
I	Computer & Accessories									
	Additional PC Accessories	40%	10,294			-	10,294	4,117	6,177	
	Computer & Servers	40%	367,630	336,383	731,002		1,435,015	427,805	1,007,210	
	Printers	40%	102,500	90,021	54,772	-	247,293	87,963	159,330	
	Software	40%	122,689	-	-	122,689	-	-	-	
	Total Computer & Accessories		603,112	426,404	785,774	122,689	1,692,601	519,885	1,172,716	
II	Electronic Equipments									
	Cables & Connectors(Sub. Fund)	15%	13,010			-	13,010	1,952	11,058	
	CISCO Routers(Sub. Funds)	15%	80,915	492,950		-	573,865	86,080	487,785	
	Hubs(Sub Fund)	15%	346,422			-	346,422	51,963	294,459	
	Modems/ Radio Modems	15%	135,042			-	135,042	20,256	114,786	
	Multimeters	15%	498			-	498	75	423	
	Multiplexer	15%	5,862			-	5,862	879	4,983	
	Radio Antenna (Sub. Fund)	15%	3,851			-	3,851	578	3,273	
	Testing Instruments	15%	19,501			-	19,501	2,925	16,576	
	VSAT Antenna (Subs. Fund)	15%	8,242			-	8,242	1,236	7,006	
	VSAT(SCPC)(Subs. Fund)	15%	188,358	435,545		-	623,903	93,585	530,318	
	Networking Equipment (Sub)	15%	438,767			-	438,767	65,815	372,952	
	Air Conditioning System (DMRC)	15%	4,155,785			-	4,155,785	623,368	3,532,417	
	Rack Mountable KVM Switch and Foldable Display	15%	-	95,081			95,081	14,262	80,819	
		Total Electronic Equipments		5,396,252	1,023,576	-	-	6,419,828	962,974	5,456,854
	III	Furniture & Fixture								
		Misc. Furniture Items	10%	318,832			-	318,832	31,883	286,949
Furniture & Fixture		10%	9,829,825			-	9,829,825	982,983	8,846,842	
		Total Furniture & Fixture		10,148,657	-	-	-	10,148,657	1,014,866	9,133,791
IV	Office Equipments									
	D.G. Sets/Generator	15%	27,506			-	27,506	4,126	23,380	
	Misc. Office Equipment	15%	405,481	127,771		-	533,252	79,988	453,264	
	Projector (OHP)(Sub Fund)	15%	1			-	1	-	1	
	UPS & Batteries	15%	414,643			-	414,643	62,196	352,447	
	Telephone & EPABX System (Sub)	15%	106,331	66,300	10,500	-	183,131	26,682	156,449	
	Electrical equipments (DMRC)	15%	4,819,110			-	4,819,110	722,866	4,096,244	
	Total Office Equipment		5,773,072	194,071	10,500	-	5,977,643	895,858	5,081,785	
V	Building									
	Building	10%	323,160			-	323,160	32,316	290,844	
	Civil work at DMRC	10%	1,707,837			-	1,707,837	170,784	1,537,053	
	Total Building		2,030,998	-	-	-	2,030,998	203,100	1,827,897	
VI	Land at Bangalore on lease	0%	40,081,900			-	40,081,900	-	40,081,900	
	Total Land		40,081,900	-	-	-	40,081,900	-	40,081,900	
	Grand Total		64,033,991	1,644,051	796,274	122,689	66,351,628	3,596,683	62,754,943	

FIXED ASSETS (GRANT-IN-AID)										(Schedule 4B)
(As per Income Tax Act, 1961)										(Amount in ₹)
2017-18										
S.No.	Particulars	Rate	Opening WDV as at 01.04.2017	Addition During the Year		Deletion/ Adjustments	Total	Depreciation during the year	Closing WDV as at 31.03.2018	
				Before 01.10.2017	After 01.10.2017					
I	Computer & Accessories (GIA)									
	Addl. PC Accessories(GIA)	40%	4,610	-	-	-	4,610	1,844	2,766	
	Computer Pheripherals (Cards)	40%	18	-	-	-	18	7	11	
	Computer & Servers(GIA)	40%	99,770	-	-	-	99,770	39,908	59,862	
	Printers & Printing Devices	40%	7,648	-	-	-	7,648	3,059	4,589	
	Softwares(GIA)	40%	29,390	-	-	-	29,390	11,756	17,634	
II	Electronic Equipment (GIA)									
	Access Control System (GIA)	15%	55,585	-	-	-	55,585	8,338	47,247	
	Active & Passive Components A/c	15%	29,907	-	-	-	29,907	4,486	25,421	
	Air Pro Gold Router	15%	35,934	-	-	-	35,934	5,390	30,544	
	Attenuator	15%	1,135	-	-	-	1,135	170	965	
	Auto Sensing Switch	15%	9,928	-	-	-	9,928	1,489	8,439	
	Base Band Hub	15%	5,945,841	-	-	-	5,945,841	891,876	5,053,965	
	Beacon Receiver	15%	44,056	-	-	-	44,056	6,608	37,448	
	C Band ODU/LNA/LNB	15%	206,842	-	-	-	206,842	31,026	175,816	
	CISCO Router	15%	25,193,894	-	-	-	25,193,894	3,779,084	21,414,810	
	CISCO Switch	15%	787,859	-	-	-	787,859	118,179	669,680	
	EMS Hardware & Software	15%	480,780	-	-	-	480,780	72,117	408,663	
	High Power Amplifier	15%	1,487,372	-	-	-	1,487,372	223,106	1,264,266	
	Hubs A/c	15%	198,817	-	-	-	198,817	29,823	168,994	
	Interface Convertors	15%	138,511	-	-	-	138,511	20,777	117,734	
	Intrusion Prevention System (IPS) (GIA)	15%	261,356	-	-	-	261,356	39,203	222,153	
	ISDN Modem	15%	1,173	-	-	-	1,173	176	997	
	ISDN Simulator	15%	89,197	-	-	-	89,197	13,380	75,817	
	Modems/Radio Modem (GIA)	15%	915,809	-	-	-	915,809	137,371	778,438	
	Networking Equipments (GIA)	15%	4,215	-	-	-	4,215	632	3,583	
	NMS Hardware	15%	825,869	-	-	-	825,869	123,880	701,989	
	NMS IT Software	15%	784,940	-	-	-	784,940	117,741	667,199	
	Protocol Analyser	15%	194,567	-	-	-	194,567	29,185	165,382	
	Radio Antenna	15%	95,679	-	-	-	95,679	14,352	81,327	
	Radio Link Installation (FA-GIA)	15%	113,522	-	-	-	113,522	17,028	96,494	
	Raid Array/3000 With Controller	15%	128,920	-	-	-	128,920	19,338	109,582	
	Redundant Power Systems (RPS)	15%	41,021	-	-	-	41,021	6,153	34,868	
	SMPS Power Plant	15%	17,780	-	-	-	17,780	2,667	15,113	
	Splitter	15%	11,529	-	-	-	11,529	1,729	9,800	
	Video Encoder	15%	174,958	-	-	-	174,958	26,244	148,714	
	VSAT Antenna	15%	271,588	-	-	-	271,588	40,738	230,850	
	VSAT (SCPC)	15%	1,099,752	-	-	-	1,099,752	164,963	934,789	
	Misc. Electronic Equipment (GIA)	15%	23,859,721	-	-	-	23,859,721	3,578,958	20,280,763	

FIXED ASSETS (GRANT-IN-AID)										(Schedule 4B)
(As per Income Tax Act, 1961)										(Amount in ₹)
2017-18										
S.No.	Particulars	Rate	Opening WDV as at 01.04.2017	Addition During the Year		Deletion/ Adjustments	Total	Depreciation during the year	Closing WDV as at 31.03.2018	
				Before 01.10.2017	After 01.10.2017					
III	Office Equipment (GIA)									
	Air Conditioner(GIA)	15%	1,440,976	-	-	-	1,440,976	216,146	1,224,830	
	DG Set	15%	263,590	-	-	-	263,590	39,539	224,051	
	Misc. Office Equipments(GIA)	15%	1,922,336	-	-	-	1,922,336	288,350	1,633,986	
	Projectors (OHP)	15%	58,363	-	-	-	58,363	8,754	49,609	
	Telephone & EPABX System	15%	470,409	-	-	-	470,409	70,561	399,848	
	UPS & Batteries (GIA)	15%	2,576,210	-	-	-	2,576,210	386,431	2,189,779	
	Video Conferencing Equipment (GIA)	15%	473,374	-	-	-	473,374	71,006	402,368	
	Misc Items (GIA)	15%	128,914	-	-	-	128,914	19,337	109,577	
	Misc. Office Equipments (GIA- Fixed Assets)	15%	24,585	-	-	-	24,585	3,688	20,897	
IV	Office Furniture & Fixtures (GIA)									
	Fittings,Flooring & Partitioning	10%	729,288	-	-	-	729,288	72,929	656,359	
	Furniture & Fixture	10%	3,815,901	-	-	-	3,815,901	381,590	3,434,311	
	Misc. Furniture & Fixture(GIA)	10%	217,862	-	-	-	217,862	21,786	196,076	
	Fittings, Floorings & Partitioning - IITM R P Chennai	10%	2,805,099	-	-	-	2,805,099	280,510	2,524,589	
	Fitting ,Flooring & Partitioning - Bangalore Centre	10%	1,735,494	-	-	-	0	-	0	
	Office Furniture & Fixture (Grant in Aid)	10%	413,150	-	-	-	413,150	41,315	371,835	
	Racks	10%	378,106	-	-	-	378,106	37,811	340,295	
V	Misc. Assets (GIA)	10%	3,138	-	-	-	3,138	314	2,824	
VI	Building A/c (GIA)	10%	13,285	-	-	-	13,285	1,329	11,956	
VII	Land on Lease at Bangalore		50,000,000	-	-	-	50,000,000	-	50,000,000	
VIII	Capital WIP (DMRC)		-	-	-	-	-	-	-	
Total			131,119,570	-	-	1,735,494	129,384,076	11,524,177	117,859,899	

Fixed Assets (Grant In Aid Fire)

(As per Income Tax Act, 1961)

(Schedule 4 C)

2017-18							(Amount in ₹)	
Particulars	Rate	Opening WDV as at 01.04.2017	Addition During the Year		Deletion/ Adjustments	Total	Depreciation During the Year	Closing WDV as at 31.03.2018
			Before 01.10.2017	After 01.10.2017				
Electronics Equipments								
CISCO ASR1002 Chassis 4 Built in GE	15%	878,463.00	-	-	-	878,463	131,769	746,694
CISCO WS-C2960S-24TS -L/ catalyst 2960S	15%	293,945.00	-	-	-	293,945	44,092	249,853
CISCO WS- C3750X-24T-S/ Catalyst	15%	96,433.00	-	-	-	96,433	14,465	81,968
CISCO ES C26960S-24TD-L/ Catalyst Switch	15%	44,525.00	-	-	-	44,525	6,679	37,846
CISCO 1941 Security bundle	15%	291,098.00	-	-	-	291,098	43,665	247,433
VMWare Virtualization Software	40%	307,876.00	-	-	-	307,876	123,150	184,726
CISCO Switch	15%	16,962,881.00	-	-	-	16,962,881	2,544,432	14,418,449
CHECK POINT	15%	3,448,549.00	-	-	-	3,448,549	517,282	2,931,267
CISCO ASR1002 Router	15%	1,377,836.00	-	-	-	1,377,836	206,675	1,171,161
Office Equipments								
Air conditioner	15%	56,403	-	-	-	56,403	8,460	47,943
Misc Office Equipment	15%	60,553	-	-	-	60,553	9,083	51,470
Office Furniture & fixture								
Fittings,Flooring & Partitioning	10%	80,229	-	-	-	80,229	8,023	72,206
Furniture & Fixture (DMRC)	10%	384,612	-	-	-	384,612	38,461	346,151
Capital WIP		-	-	-	-	-	-	-
TOTAL		24,283,403	-	-	-	24,283,403	3,696,236	20,587,166

Intangible Assets

(As per Income Tax Act, 1961)

(Schedule 4 D)

Particulars	Rate	Opening WDV as at 01.04.2017	2017-18		Deletion/ Adjustments	Total	Depreciation During the Year	Closing WDV as at 31.03.2018
			Addition/Adjustments During the Year					
			Before 01.10.2017	After 01.10.2017				
Licenses Fee for ISP	25%	1,265,625		-	-	1,265,625	316,406	949,219
E-Office Implementation	25%	355,427	-	-	-	355,427	88,857	266,570
Domain Registrar Application Programme	25%	-	268,610			268,610	67,153	201,457
TOTAL		1,621,052	268,610	-	-	1,889,662	472,416	1,417,246

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2018

		(Amount in ₹)	
SCHEDULE 5 - CURRENT ASSETS, LOANS, ADVANCES ETC.		Current Year	Previous Year
A	CURRENT ASSETS:		
1	Inventories:		
	a) Stores and Spares	92,875	42,551
	b) Inventories	-	-
	c) Sodexo Coupons in Hand	2,250	30,375
	Total (1)	95,125	72,926
2	Sundry Debtors	126,356,176	119,514,967
	Less Provision for Doubtful Debts (Connectivity)	(80,766,402)	(80,415,587)
	Total (2)	45,589,774	39,099,380
3	Receivables under Earmarked Network Research Schemes		
	a) Amount receivable under Projects (Other than GIA)	75,741,433	13,782,949
	b) Earmarked Network Research Schemes (Schedule 2)	125,911,949	29,537,799
	Total (3)	201,653,382	43,320,748
4	Bank balances with Scheduled Banks		
	a) Fixed Deposit Accounts	1,698,018,193	1,868,573,031
	b) Savings Accounts and Current Account	552,703,851	143,505,800
	Total (4)	2,250,722,044	2,012,078,831
	TOTAL (A)	2,498,060,325	2,094,571,885
B	LOANS, ADVANCES AND OTHER ASSETS		
	Advances and other amounts recoverable in cash or kind or for value to be received:		
	a) Security Deposits	16,853,700	18,168,510
	b) Prepaid Expenses	14,367,758	371,237
	c) Misc. Advance	201,728	42,312
	d) Income Tax Refund Due	61,883,514	52,890,413
	e) Income Tax Deposited and Refund Adjusted Against Various Demands	140,131,633	135,533,535
	f) Amount Receivable from Transit Nodes	506,809	506,809
	g) Advances/ Recoverables	41,604,959	28,599,944
	h) Interest Receivable on IT refund	4,477,890	3,926,118
	i) GST Credits	7,283,094	-
	j) Income Accrued from Subscription VSAT	1,281,507	-
	k) Value Added Tax (VAT) Credit A/c	-	30,485
	TOTAL (B)	288,592,592	240,069,362

Annexure to Schedule -5

(Amount in ₹)

S.No.	SUNDRY DEBTORS (SUBSCRIPTION CHARGES RECEIVABLE FROM USERS)	Current Year	Previous Year
1	AICTE Scheme	4,355,572	4,576,692
2	Dial-up users	2,923,783	3,215,635
3	E-mail Hosting	151,188	75,643
4	Group Connectivity	24,393,278	16,253,231
5	ICAR Scheme	31,157,101	27,552,616
6	Leased Line	14,536,865	15,138,609
7	Leased Line (LAN)	206,614	254,509
8	MPLS	9,527,714	8,346,475
9	Others	157,971	109,726
10	Radio Link	4,722,551	3,085,853
11	SCPC VSAT	624,917	624,917
12	Web Email Hosting	45,399	191,843
13	VSAT	31,533,830	38,850,912
14	Web Hosting	2,019,393	1,190,061
15	CIC GOVT Sr. Sec School	-	8,212
16	Govt Sr School Kmorta	-	40,033
	Total	126,356,176	119,514,967
S.No.	AMOUNT RECEIVABLE UNDER PROJECTS	Current Year	Previous Year
1	Project DGS & D	135,059	135,059
2	Trans Eurasia Information Network(TEIN3)	199,922	199,922
3	Project- ICAR E-Linkage to 200 KVKs	20,989,385	-
4	Proj. SCPC VSAT link at Kavaratti (Lakshadweep)	41,540,728	-
5	GIA Receivable A/c	12,876,339	13,447,968
	Total	75,741,433	13,782,949
S.No.	BANK BALANCES WITH SCHEDULED BANKS ON FIXED DEPOSIT ACCOUNTS	Current Year	Previous Year
1	FDR - Bank of India	52,574,407	264,540,773
2	FDR- IDBI Bank Ltd.	60,125,593	-
3	FDR- Punjab & Sind Bank	1,504,625,808	-
4	FDR- State Bank of India Kashmere Gate	80,692,385	-
5	FDR-Indian Overseas Bank	-	1,604,032,258
	Total	1,698,018,193	1,868,573,031
S.No.	BANK BALANCES WITH SCHEDULED BANKS ON SAVINGS ACCOUNTS	Current Year	Previous Year
1	Bank of India - SB A/c No.2033	869,299	736,398
2	State Bank of India A/c No. 33892412527	540,608,093	134,004,885
3	HDFC Bank A/c no. 00030350008763	1,217,868	1,217,868
4	Bank of India - SB A/c 604810110002285	3,254,522	1,698,224
5	SBI A/C No 36601944510	4,491,916	-
6	SBT A/c No. 67143505116	2,262,153	5,848,424
	Total	552,703,851	143,505,800
S.No.	SECURITY /EMD DEPOSIT	Current Year	Previous Year
1	BSNL bangalore TD	10,000	10,000
2	DMRC Ltd.	15,139,788	15,139,788
3	IIT Madras	1,603,912	1,349,040
4	LIC of India	-	151,642
5	Mahahagar Telephone Nigam Ltd.	100,000	100,000
6	Poonam C Chawla	-	1,418,040
	Total	16,853,700	18,168,510

S.No.	PREPAID EXPENSES	Current Year	Previous Year
1	Repair and maintenance	51,918	10,582
2	Insurance	10,347	-
3	Outsourcing Charges	154,272	-
4	Membership Fee	339,221	360,655
5	WPC License Fees & Royalty for VSAT	13,812,000	-
	Total	14,367,758	371,237
S.No.	MISC. ADVANCE	Current Year	Previous Year
1	Contingency Advance	-	3,000
2	Imprest Advance	18,000	1,987
3	TA Advance	38,403	27,000
4	LTC Advance	135,000	-
5	Temporary Advance	10,325	10,325
	Total	201,728	42,312
S.No.	TDS RECEIVABLE	Current Year	Previous Year
1	TDS on FDR A/c	10,560,781	15,284,106
2	Tds Subscription Charges A/c	2,973,761	533,082
3	TDS Recivable pertains to Prior Period	48,348,972	37,073,225
	Total	61,883,514	52,890,413
S.No.	ADVANCE TO TRANSIT NODES	Current Year	Previous Year
1	CAT Indore	55,439	55,439
2	IIT Chennai	118,381	118,381
3	VECC, Calcutta	268,314	268,314
4	UOHYD Hyderabad	64,675	64,675
	Total	506,809	506,809
S.No.	ADVANCES/RECOVERABLES	Current Year	Previous Year
1	AO(Cash),TEC, New Delhi	800	800
2	Advance to National Internet Exchange of India	1,388,873	938,380
3	Bharti Airtel	25,594	25,594
4	CPF Trust A/c	626,257	6,521,686
5	DOT New Delhi	314,269	314,269
6	Hira Sweet & Restaurant	-	20,060
7	Karnataka Industrial Areas Development Board	691,200	691,200
8	M/s Club Electronics	29,962	29,962
9	Transline Technologies Pvt. Ltd.	37,762	-
10	HCIL Comtel Ltd	10,822,749	1,650
11	Hughes Network Ststem LLC Maryland	24,260,392	18,489,558
12	Matrix Cellular (International) Services Pvt. Ltd.	6,000	6,000
13	National Informatics Centre Services Incorporated	1,552,848	1,526,327
14	National Internet Exchange of India	33,868	1,957
15	Sodexo SVC India Pvt. Ltd.	2,277	-
16	Media Online-Com.(P) Ltd.	7,080	-
17	PERFECT INFO SOLUTIONS PVT. LTD.	12,095	-
18	Perfect Packer and Movers, Bangalore	4,245	-
19	National Informatics Centre Service Inc(Manpower)	1,623,778	-
20	LIC of India	131,642	-
21	Phonomax India	768	-
22	Star Comnet	32,500	32,500
	Total	41,604,959	28,599,944
S.No.	GST Credits	Current Year	Previous Year
1	CGST Credit on Reverse Charge	1,271,880	-
2	CGST Paid on Advance Receipts	2,035,703	-
3	IGST Credit	658,730	-
4	IGST Paid on Advance Receipts	9,198	-
5	SGST Credit on Reverse Charge	1,271,880	-
6	SGST Paid on Advance Receipts	2,035,703	-
	Total	7,283,094	-

**SCHEDULE FORMING PART OF INCOME & EXPENDITURE
FOR THE YEAR ENDED 31.03.2018**

(Amount in ₹)

SCHEDULE 6 - INCOME FROM SUBSCRIBERS		Current Year	Previous Year
1	Services		
	a) VSAT/SCPC	114,372,218	27,218,533
	b) Leased Line	10,761,759	11,853,673
	c) Radio Link	3,304,363	3,732,815
	d) E-mail and Web Hosting	3,568,771	4,309,363
	Total (1)	132,007,111	47,114,384
2	Domain Registration	1,009,551	8,661,640
3	Professional Charges on projects	14,551,162	21,899,723
4	Income From Training	144,000	1,103,365
	Total (1+2+3+4)	147,711,824	78,779,112

Annexure to Schedule 6

(Amount in ₹)

S.No.	Particulars	Current Year	Previous Year
1	<u>VSAT/SCPC</u>		
	a) Subscription Charges - SCPC	39,479,858	3,637,500
	b) Subscription Charges - VSAT	74,892,360	23,581,033
		114,372,218	27,218,533
2	<u>LEASED LINE</u>		
	a) Subscription Charges - Leased Line	9,707,945	10,162,699
	b) Subscription Charges - LAN	167,617	335,000
	c) AMC Charges	134,034	298,947
	d) ALM Charges	269,397	352,427
	e) Income from Backbone Charges	482,766	694,600
	f) One Time Link Installation Charges	-	10,000
		10,761,759	11,853,673
3	<u>RADIO LINK</u>		
	a) AMC Radio Link	2,073,596	-
	b) Subscription Charges	1,197,000	2,745,967
	c) ALM Radio Link	33,767	986,848
		3,304,363	3,732,815
4	<u>WEB HOSTING</u>		
	a) Subscription charges - Standard	3,247,988	4,005,582
	b) Subscription charges - Email	320,783	303,781
		3,568,771	4,309,363

**SCHEDULE FORMING PART OF INCOME & EXPENDITURE
FOR THE YEAR ENDED 31.03.2018**

(Amount in ₹)

SCHEDULE 7 - INTEREST EARNED		Current Year	Previous Year
1	On Term Deposits:		
	a) Bank of India	7,595,097	8,767,557
	b) State Bank of Travancore	-	11,894
	c) State bank of India	373,572	-
	d) Nainital Bank	-	6,367,380
	e) Punjab & Sind Bank	4,625,808	20,782,948
	f) State bank of Hyderabad	-	12,094,139
	g) IDBI Bank	139,548	125,536,170
	Less: Interest Transferred to Projects	-	(23,720,776)
	Net Interest Amount (g)	139,548	101,815,394
	h) Indian Overseas Bank	96,839,430	4,032,258
	Less: Interest Transferred to Projects	(5,215,049)	-
	Net Interest Amount (h)	91,624,381	4,032,258
	Total (1)	104,358,406	153,871,570
2	On Saving Accounts		
	a) Saving Bank Account	19,959,553	1,349,922
	Less: Interest Transferred to Projects	18,550,000	187,555
	Net Interest Amount of Saving Bank Account	1,409,553	1,162,367
	b) Bank of India Saving Plus and Current Account	719,401	2,560,271
	Total (2)	2,128,954	3,722,638
	Total (1+2)	106,487,360	157,594,208

Annexure to Schedule - 7

(Amount in ₹)

Sl. No.	Interest transferred to Projects	Current Year	Previous Year
	On Term deposits		
1	GIA-ICT Centre in 204 Schools of Srikakulam	59,469	81,518
2	GIA-NASSCOM-ERNET Centre of Excellence for IOT	386,331	1,123,687
3	GIA- Setting Up WI-FI Campus Network-Allahabad University	192,143	480,445
4	GIA -VSAT at North Eastern State of the Country	688,945	3,200,207
5	GIA- Ministri of Social Justics & Empowerment	3,878,046	1,046,916
6	GIA - Inform Security Education & Awareness-Ph-II	10,115	37,850
7	GIA- Enabling All School with Smart Classroom	-	14,485,002
8	GIA- Setting Up WI-FI Campus Network- 4 University	-	3,265,151
	Total	5,215,049	23,720,776
	On Saving Accounts		
1	Project- NIXI Setting up of Internet Connectivity	18,550,000	-
2	GIA-ICT Centre in 204 Schools of Srikakulam	-	35,912
3	GIA-IPv6 Training Programme for Staff of Govt./Ministry	-	151,643
	Total	18,550,000	187,555
	Grand Total	23,765,049	23,908,331

**SCHEDULE FORMING PART OF INCOME & EXPENDITURE
FOR THE YEAR ENDED 31.03.2018**

(Amount in ₹)

SCHEDULE 8 - OTHER INCOME		Current Year	Previous Year
1	Misc. Receipts	1,22,10,577	3,94,13,580
2	Misc. Recovery	3,94,035	54,049
3	Prior Period Income	1,70,53,425	40,000
	TOTAL	2,96,58,037	3,95,07,629

SCHEDULE 9 - INCREASE/(DECREASE) IN INVENTORIES		Current Year	Previous Year
a)	Closing Inventories	-	-
b)	Less : Opening Inventories	-	(6,83,124)
	NET INCREASE /(DECREASE) (a-b)	-	(6,83,124)

SCHEDULE 10 - OPERATIVE EXPENSES		Current Year	Previous Year
1	Local Loop Charges	50,319	3,46,223
2	International Gateway Access/Backbone Charges	65,98,323	59,29,029
3	Transit Node Expenses	1,97,031	9,11,001
4	Transponder Lease Charges	4,63,58,682	3,58,72,132
5	WPC Licence Fee	1,10,11,612	78,40,722
6	Hub Management & Repair & Maintenance charges	1,22,74,029	71,72,916
7	Registration charges - Domain	38,56,182	35,31,556
	TOTAL	8,03,46,178	6,16,03,579

Annexure to Schedule - 8

(Amount in ₹)

S.No.	Misc Receipts	Current Year	Previous Year
1	Reversal of provision for Doubtful Debts due to recoveries	-	1,15,10,825
2	Excess Provisions of previous financial years reversed	9,76,894	10,61,139
3	Misc. Recovery towards CPF	8,50,038	65,21,686
4	Recruitment Income	12,711	7,391
5	Recovery towards stock lying with HCL Comnet	-	6,83,124
6	LD Recovered	26,54,216	-
7	Interest on income tax refund	5,51,772	-
8	Tender Fee	1,87,356	1,55,000
9	Other Misc. Receipts	69,77,590	1,94,74,415
	Total	1,22,10,577	3,94,13,580

Annexure to Schedule - 10

(Amount in ₹)

S.No.	Maintenance Charges	Current Year	Previous Year
1	Repair & Maintenance charges	64,17,163	25,28,864
2	Infrastructure Facility- Rack at STPI Bangalore	27,06,866	35,76,632
3	Generator Runing & Maintance Expenses	-	1,36,985
4	NOCC Charges	31,50,000	9,30,435
	Total	1,22,74,029	71,72,916

**SCHEDULE FORMING PART OF INCOME & EXPENDITURE
FOR THE YEAR ENDED 31.03.2018**

(Amount in ₹)

SCHEDULE 11 - ESTABLISHMENT EXPENSES		Current Year	Previous Year
1	Salaries and Allowances		
	a) Regular employee	5,79,30,808	3,52,83,957
	b) Contract employee	99,46,197	1,22,96,165
2	Staff Welfare Expenses	25,44,548	22,38,513
3	Expenses on Employees' Retirement & Terminal Benefits	1,86,50,008	53,28,431
4	Medical Reimbursement to employees	21,40,746	14,18,382
	TOTAL	9,12,12,307	5,65,65,448

ANNEXURE TO SCHEDULE -11

SALARY AND ALLOWANCES

(Amount in ₹)

S.No.	Pay and Allowances- Regular employee	Current Year	Previous Year
1	Pay & Allowance	5,57,12,474	3,42,93,517
2	Children Education Allowance	5,47,200	3,69,000
3	LTC Expenses	16,71,134	6,21,440
	Total	5,79,30,808	3,52,83,957
S.No.	Pay & allowances - Contract Staff	Current Year	Previous Year
1	Pay & Allowance	33,93,038	22,62,254
2	Outsourcing charges-support staff	52,50,992	89,55,338
3	Security Services	13,02,167	10,78,573
	Total	99,46,197	1,22,96,165
S.No.	Expenses on Employees' Retirement and Terminal Benefits	Current Year	Previous Year
1	Provision for Leave Encashment of ERNET India employees	62,00,114	37,69,194
2	Provision for Gratuity of ERNET India employees	1,24,49,894	15,59,237
	Total	1,86,50,008	53,28,431

**SCHEDULE FORMING PART OF INCOME & EXPENDITURE
FOR THE YEAR ENDED 31.03.2018**

		(Amount in ₹)	
SCHEDULE 12 - ADMINISTRATIVE EXPENSES		Current Year	Previous Year
1	Accommodation Charges	3,16,76,563	3,72,40,823
2	Advertisement and Publicity Charges	1,36,073	2,04,563
3	Audit Expenses	35,772	22,340
4	Auditors Remuneration	1,50,000	79,472
5	Bad & Doubtful Debts (Net off Provision no longer required write back of Rs. 10,67,497/-)	6,70,619	-
6	Bank Charges	7,13,607	69,575
7	Books & Periodicals	60,146	36,341
8	Honorarium	-	75,600
9	Meeting Expenses	1,29,962	1,44,156
10	Membership & Subscription Fee	10,25,993	3,24,879
11	Postage & Courier Charges	78,296	33,830
12	Printing and Stationery	11,90,907	4,55,537
13	Misc. Expenses	13,26,586	4,45,009
14	Professional Charges	31,98,039	12,73,731
15	Repairs and Maintenance	3,88,675	2,73,662
16	Recruitment expenses	1,89,507	58,294
17	Registration Charges	50,000	95,121
18	Telephone Charges	8,28,972	9,08,206
19	Training, Seminars, Workshops, Exhibition & Conference Exp	1,31,715	6,65,092
20	Travelling, Conveyance & Taxi Hiring charges	59,64,317	49,26,494
21	Prior Period Expenses	78,16,273	56,32,447
22	Insurance Expenses	18,283	-
23	Research & Development Exp. (LiFi Project Exp.)	1,14,214	-
24	ERNET Project Expenses	2,53,53,200	-
Total		8,12,47,719	5,29,65,171

**Annexure to Schedule - 12
ADMINISTRATIVE EXPENSES**

		(Amount in ₹)	
S.No.	Travelling, Conveyance & Taxi Hiring Charges	Current Year	Previous Year
1	Conveyance Charges	95,291	81,353
2	TA Expenses (Staff & Others) Foreign Tour	22,73,411	15,93,019
3	TA Expenses (Staff & Others) Local	11,92,801	10,04,870
4	Taxi Hiring Charges	24,02,814	22,47,252
Total		59,64,317	49,26,494
S.No.	Professional Charges	Current Year	Previous Year
1	Internal Audit Fee	2,59,747	1,27,723
2	Professional Charges Legal	15,79,342	4,63,937
3	Professional charges (Consultant)	13,25,401	5,71,577
4	Professional Service Charges-IT	-	32,143
5	Security Audit Fee	18,549	61,921
6	Professional Charges Towards CPF Audit	15,000	16,430
Total		31,98,039	12,73,731
S.No.	Accommodation Charges	Current Year	Previous Year
1	Electricity charges - DMRC	23,78,377	21,38,693
2	Electricity charges - LIC	-	1,72,443
3	Electricity charges - Bangalore	76,737	1,23,225
4	Leased for office accommodation - DMRC	1,97,36,766	1,56,39,064
5	Leased for office accommodation at IIT Madras	27,19,772	24,77,278
6	Leased for Office accommodation charges- LIC	-	1,03,03,418
7	Leased for Office Accommodation, Bangalore	31,34,802	32,37,972
8	Water supply charges - DMRC	1,04,312	1,00,366
9	Repair & Maintenance -DMRC	29,62,252	24,54,854
10	Repair & Maintenance Charges -IITM Reserch Park	5,63,545	5,93,510
Total		3,16,76,563	3,72,40,823
S.No.	Misc. Expenses	Current Year	Previous Year
1	Misc. Expenses	2,33,350	95,030
2	Interest on Service Tax	56,917	147
3	Office Expenses	9,33,859	3,21,991
4	Hindi Expenses	67,000	15,294
5	Office Running expense	-	12,547
6	Sales Tax Written Off	4,975	-
7	VAT Written Off	30,485	-
Total		13,26,586	4,45,009
S.No.	ERNET Project Expenses	Current Year	Previous Year
1	Project Exp. - VSAT at NE States of Country	1,31,94,444	-
2	Project Exp. - VSAT SCPC at Kavaratti	1,18,75,000	-
3	Project - Setting up Eduroam Services in India	2,83,756	-
Total		2,53,53,200	*

*** Under Compilation

SCHEDULE - 13: SIGNIFICANT ACCOUNTING POLICIES FORMING PART OF FINANCIAL STATEMENTS

1) Accounting Convention

The Financial statements are prepared on the basis of historical cost convention using accrual method of accounting in accordance with the Generally Accepted Accounting Principles. The accounting policies have been consistently applied by the Society and are consistent with those used in the previous year.

2) Use of estimates

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent liabilities at the date of the financial statements and the results of operations during the reporting year end. Although these estimates are based upon management's best knowledge of current events and actions, actual results could differ from these estimates.

3) Fixed Assets

Fixed Assets are stated at cost of acquisition inclusive of freight, duties & taxes (net of claimable taxes) and all attributable expenditures required to bring the assets to the condition required for its intended use and costs incurred up to the date of putting the assets to use.

Fixed assets are disclosed at cost less depreciation and impairment, if any.

4) Depreciation

- (i) Depreciation is provided on Written Down Value Method, the rates of depreciation prescribed as per Income Tax Act, 1961 are considered as the rates for charging depreciation.
- (ii) In respect of additions to fixed assets during the year depreciation is calculated @ 100% of the prescribed rates as listed in 4(v), if asset is used for 180 days or more and if asset is used for less than 180 days the same is calculated @ 50% of the prescribed rates. No depreciation has been charged on assets sold during the year.
- (iii) The capital assets having the value of less than ₹5,000/- is charged to the income and expenditure account in the year of purchase.
- (iv) Depreciation on the fixed assets acquired through Grant-in-Aid(GIA) is charged to corresponding Capital fund account.
- (v) Rates of depreciation (as per Income Tax Act, 1961) are tabulated below-

S.No.	Category of Asset	Rate of Depreciation
a.	Building	10%
b.	Computer & Accessories	40%
c.	Electronic Equipment	15%
d.	Cables and connectors	15%
e.	Testing Instrument	15%
f.	Office Equipment	15%
g.	Furniture & fixtures	10%
h.	Intangible Assets incl. Software	25%

5) Government Grants for Projects

Network Research Scheme Expenditure out of Grant-in-Aid(GIA) received is accounted for on accrual basis but while issuing the utilisation certificate expenditure is shown on cash basis by reducing the total expenditure by the amount of provisions made which are yet to be paid. This treatment towards UC is in compliance with General Financial Rules, 2017, issued by Ministry of Finance, Govt. of India.

Expenditures incurred on projects is titled as “Network Research Schemes” in the financial statements. Expenditure incurred during the year is shown as contra item in the Income and Expenditure Statement. The unspent amount of GIA pertaining to ongoing Projects is shown as “Earmarked Funds for Network Research Schemes” under current liabilities and the excess amount spent is shown as “Receivables under Earmarked Network Research Schemes” under current assets in the Balance Sheet.

6) Revenue Recognition

S.No.	Income Head	Recognition /Invoicing
(i)	VSAT/SCPC VSAT	Income is recognized as and when services are provided and the invoices are issued. Invoicing is generally done on half yearly basis as per the tariff rates.
(ii)	Leased Line	
(iii)	Radio Link	
(iv)	Web/mail/webmail hosting	
(v)	Domain Registration	Receipts pertaining to domain services are booked as “Income from Domain” after receiving confirmation of users’ details. Pending confirmation of user details, these receipts are credited to suspense account. Balances lying in suspense account at the end of the month are treated as Miscellaneous Receipts (inclusive of applicable taxes). Income is recognized on cash basis for receipts upto Rs.5,000/- per domain registration.
(vi)	ERNET consultancy/ Professional Charges	ERNET Professional charges are billed in the projects as per the project terms and conditions.

Revenue is recognized when no significant uncertainty exists for the ultimate collection thereof.

7) Employee Benefits

- i) Retirement Benefits to employees like Gratuity, Leave Encashment etc are provided based on Actuarial Report for valuation at the end of FY in terms of Accounting Standard (AS) 15 issued by Institute of Chartered Accountants of India.
- ii) Provision for accumulated leave encashment and gratuity benefits to the employees is accrued and computed on the assumption that the employees are entitled to receive the benefit as at the end of each year.

8) Leases

Finance leases, which effectively transfer to the Society substantially all the risks and benefits incidental to ownership of the leased item, are capitalized at the lower of the fair value and present value of the minimum lease payments at the inception of the lease term and disclosed as leased assets. Lease payments are apportioned between the finance charges and reduction of the lease liability based on the implicit rate of return. Finance charges are charged directly against income. Lease management fees, legal charges and other initial direct costs are capitalized.

Leases where the lessor effectively retains substantially all the risks and benefits of ownership of the leased term are classified as operating leases. Operating lease payments are recognized as an expense in the Income & Expenditure Account on a straight-line basis over the lease term.

9) Inventory

- i) Consumables stores are valued at cost.
- ii) Stock in trade is valued at lower of cost or net realizable value.

10) Provisions

- i) Provision towards expenses on ERNET India's account (other than on projects A/c) is recognized when the organisation has a present obligation as a result of past event; it is probable that an outflow of resources will be required to settle the obligation, in respect of which a reliable estimate can be made. Provisions are not discounted to its present value and are determined based on best estimate required to settle the obligation at the balance sheet date. These are reviewed at each balance sheet date and adjusted to reflect the current best estimates.
- ii) Provision towards Bad and doubtful debts is made in respect of current users who have not paid their dues for more than three years and for the users who are not availing the services, provision is made, if dues are outstanding for more than one year.

11) Interest payment under the Projects

On the amounts received in advance interest is paid / provisioned at the rate of saving bank account interest on the following basis:

- i) In case of projects received from Central Govt. Ministry/Department; then interest is provisioned/paid on GIA received unless the underlying contract document specifies otherwise.
- ii) In case of advance received from State Govt./UTs or any other Govt. agency; interest is not paid/provisioned unless the underlying contact document specifically provides for payment of interest.
- iii) In case of projects which are based on purchase/work order and for which no UC is required to be issued; interest is generally not provisioned unless specifically mentioned in the contract document.

12) Utilization of accumulated surplus for the purpose of compliance with provision of Section 11 of the Income Tax Act

The amount of surplus of "Income over Expenditure" is being accumulated over a period of time. Last years' accumulated surplus shall be first utilized to meet the expenses of current year on FIFO basis, balance left out of accumulated surplus is being utilized against the expenses of subsequent years till the time it get fully exhausted up to the expiry of five years.

13) Goods and Services Tax (GST)

GST has been implemented w.e.f. 01.07.2017. Accordingly, GST is charged on the services provided by ERNET India at the rates prescribed under GST Law. Similarly, Input tax credit under GST is also availed as per in the following manner as prescribed under GST Law:-

- i) No credit is being availed on the expenditure incurred exclusively for effecting exempt supplies (As per Notification no. 32/2017 - Central Tax (Rate) & 35/2017 - Central Tax (Rate) w.e.f. 13.10.2017).
- ii) For other services, credit is being availed as per provisions of GST law.

For and on behalf of ERNET India

(Vipin Aggarwal)
Director (Finance)

(Meharban Singh)
Sr. Director &
Registrar &CPO (I/c)

(Dr.Neena Pahuja)
Director General

Place : New Delhi
Dated: 01.08.2018

SCHEDULE - 14: NOTES ON ACCOUNTS FORMING PART OF FINANCIAL STATEMENTS FOR FY 2017-18

1. Undertakings/Guarantees

As on 31.03.2018 there were three bank Guarantees that were outstanding (which were got issued by ERNET India as an applicant):

- i) Two BGs totalling to ₹2.10 crores (Previous Year Three BGs totalling ₹4.10 crores) issued in favour of DoT for performance/ observance of various conditions of ISP license agreement.
- ii) One BG amounting to ₹3,79,66,850/- issued in favour of Ministry of Health and Family Welfare (MoHFW) for executing the Project titled "E-classroom Infrastructure in 50 medical colleges of MoHFW". For any liability arising on this BG we have a corresponding BG amounting to ₹3,61,39,857/- which has been received from M/s Yash Technologies Pvt. Ltd. as a consortium partner for this project.

2. Contingent Liabilities (to the extent not provided for)

- i) Claims against the Society not acknowledged as debts amounting to ₹1,08,86,421/- (as in previous year) (plus interest demanded at rates ranging from 18% to 24%) is towards amount claimed by M/s Wood fun Interiors which is under dispute. ERNET India has also raised a counter claim on M/s Wood fun Interiors amounting to ₹3,88,17,406/- (as in previous year). The matter is under arbitration.
- ii) ERNET India has received provisional demands towards license fee from DOT total amounting to ₹39,77,55,315/- for the FYs 2014-15, 2015-16 & 2016-17. ERNET India does not agree with the demand raised by DOT as the demand raised is in contrary with the terms of Unified License Agreement signed between ERNET India and DOT. The matter has been taken up with DOT vide communication dated 03.07.2018.

3. Physical Verification of Assets

Exercise towards physical verification of assets was done in FY 2014-15 and their reconciliation didn't got finalized till the current FY and, therefore, Physical Verification was again carried out in the FY 2017-18 and the same is yet to be completed. Once the physical verification of assets gets over, the exercise of reconciliation will be carried out.

4. Fixed Assets Acquired from the Grant In Aid

As per the terms and conditions contained in the sanction and release of the Grant in Aid received by the society amounting to ₹59.35 crores, ₹3.48 crores and ₹6.52 crores permanent, semi-permanent assets acquired solely or mainly out of the DIT grant shall be property of the DIT and should not without prior sanction of DIT, be disposed off or encumbered or utilized and DIT will be free to sell or otherwise dispose off assets. Accordingly, these permanent, semi-permanent assets acquired solely or mainly out of the DIT have been shown as "Fixed Assets Acquired from the Grant In Aid" in the financial Statement of the society and corresponding depreciation amount on these assets has also been charged to the respective capital fund accounts.

5. Income Tax

Income Tax Department had raised following demands by denying the claim of exemption of being a charitable institution registered u/s 12AA :

AY	Assessment Order Date	Income Tax Demands (Rs.)	Amount Deposited against demand (Rs.)	Refund adjusted by Department against Demand (Rs.)	Total amount deposited and refund adjusted (Rs.)	Current Status
09-10	21.12.2011	14,88,98,033/-	5,95,55,613/-	84,86,100/- (Refund for the AY 2011-12 Rs 26,33,990/- and for AY 2012-13 Rs 58,52,110/- adjusted)	6,80,41,713/-	Decision of CIT (A) and IT(AT) is in favour of ERNET India
10-11	28.03.2013	8,03,14,300/-	4,01,57,150/-	3,12,60,790/- (Refund for the AY 2013-14 adjusted)	7,14,17,956/-	
11-12	24.03.2014	6,11,15,150/-	Nil	Nil	Nil	Decision of CIT (A) is in favour of ERNET India.
12-13	10.03.2015	3,74,54,690/-	Nil	Nil	Nil	
13-14	30.03.2016	9,66,47,210/-	Nil	Nil	Nil	
14-15	25.11.2016	13,79,06,430/-	Nil	51,49,870/- (Refund for the AY 2015-16 adjusted)	51,49,870/-	
15-16	11.12.2017	23,83,88,430/-	Nil	Nil	Nil	
Total		80,07,15,243/-	9,97,12,769/-	4,48,96,760/-	14,46,09,539/-	

- As a prudence measure, provision amounting to ₹35.60 crores was created in the FY 2012-13 towards tax liability for the AY 2009-10 to AY 2013-14.
- For appeal preferred against the order of Assessing Officer for the AY 2009-10 till AY 2015-16 decision of CIT (A) is in favour of ERNET India. ITAT has also ruled in favour of ERNET India on the appeal of Revenue preferred against the order of CIT (A) for the AY 2009-10 and 2010-11. Therefore, no further provisions have been created from the financial year 2013-14 onwards.
- Appeal effect for the AY 2011-12, 2012-13, 2013-14 & 2015-16 has been given by the department and adjusted from the demand of AY 2009-10, 2010-11 and 2014-15. Further matter is being pursued

with department for giving appeal effect for AY 2009-10, 2010-11 and 2014-15 and for release of refund.

- iv) Further, department has raised demand for interest u/s 234D amounting to ₹19,020/-, ₹39,660/- and ₹27,590/- for the AY 2011-12, 2012-13 and 2015-16 respectively. The same will be dealt with after receipt of details; sought from the department.
- v) On the recommendations of F&A Committee, an agenda item was passed in the EC meeting for taking up the matter by Secretary, MeitY with Ministry of Finance for granting exemption from Income Tax to ERNET India. Accordingly, a letter dated 20.06.2017 was sent by Secretary, MeitY to Secretary, Department of Revenue, Ministry of Finance.

6. Network Research Schemes

- i) Network Research Receipts and Expenditure amounting to ₹33,88,49,900/- (previous year ₹79,12,56,915/-) has been declared as a contra item in the Income & Expenditure Account against the funds received from sponsors for the respective project.
- ii) Balance of funds received for Network Research Schemes which are in progress have been shown in Schedule – 2 in the Balance Sheet.

7. Foreign Currency Transactions

i) Value of Imports

Particulars	2017-18 (₹)	2016-17 (₹)
Capital goods	98,65,546/-*	1,84,89,559/-*

***Note:** Includes advance paid towards capital goods during the financial year. Goods have been received but were yet to be put to use as on the Balance Sheet date.

ii) Expenditure in Foreign Currency

Particulars	2017-18 (₹)	2016-17 (₹)
Membership Fees	10,24,843/-	6,89,347/-
Foreign Travel	7,65,281/-	5,07,487/-
Others	1,11,553/-	-

8. Remuneration to Auditors*

Particulars	2017-18 (₹)	2016-17 (₹)
Statutory Audit Fee	1,50,000/-	1,50,000/-
Certification Fees (TRAI)	55,000/-	85,000/-

*The above fees are exclusive of out-of-pocket expenses and govt. levies.

9. Interest Income

Interest income appearing in Income & Expenditure account is on net basis after adjusting interest credited to the projects.

10. GIA Receivable/Payable

GIA Receivable account and GIA Payable account represent the amount receivable/ payable from the sponsoring Ministry/ authority in respect of completed projects. ERNET India is neither providing any interest on GIA payable nor booking any interest on GIA receivable from the sponsoring Ministry/ authority.

11. Land at Bangalore

In the year 2012, a plot of land admeasuring 5 acres was allotted to ERNET India in Bangalore by Karnataka Industrial Area Development Board(KIADB). As per the allotment letter, ERNET India is liable to pay lease rent at ₹1,000/- per acre per annum and maintenance charges of ₹10,000/- per acre per annum. As signing of lease deed is pending and no demand has been made in this regard by KIADB till date, so ERNET India has not made any provision towards this expenditure; the same shall be booked and deposited as and when demanded.

12. Domain Receipts

Due to some technical glitches, details regarding payments received towards domains registration were interrupted during the year 2017-18 and due to which amount received in bank account earmarked for domain registration receipts was booked as miscellaneous receipts to the tune of ₹70.58 lakhs during the year. ERNET India has ensured GST compliances on these receipts.

13. Provision against Fixed Assets

- i) Provision for Impairment of Fixed Assets totalling to ₹88,63,742/- was made in the FY 2013-14 on the basis of physical verification and impairment study of fixed assets by CA firm carried out in the FY 2012-13. This provision was consisting of (i) for impairment of assets identified but not in working condition with WDV as on 31.03.2012 amounting to ₹12,21,304/- and (ii) for assets not identified having WDV as on 31.03.2012 amounting to ₹76,42,438/-.
- ii) Provision for assets lost in fire amounting to ₹2,39,68,558/- was made in the year 2013-14 on the basis of report of the committee constituted to review the extent of damage due to major fire in ERNET India on 03.07.2013.

Both the above provisions [at (i) & (ii)] are outstanding in the books and shall be settled once the exercise of physical verification of fixed assets and its reconciliation gets over.

14. BSNL charges for Leased Line

As per the past practice BSNL/MTNL charges for leased line to third parties are charged on provisional basis based on last year's demand and adjustment is made on receipt of actual demand note. In case demand note is not received from the service provider, the amount already received from the end user on this account is reflected as current liability in the books of account.

15. Salary to Regular Employees

Till last year, the salary of regular employees was booked for the period March to February. To align the same with accounting policy of accrual accounting, this practice was changed in the FY 2017-18 and the salary has been booked till March, 2018. Therefore, as one time effect in the FY2017-18, the salary has been booked for 13 months (March'17 salary booked as prior period and April'17 to March'18 in current FY) as against for 12 months booked in the previous year which is higher by Rs.45,09,863/-.

16. The figures for the previous year have been re-grouped/ re-arranged wherever necessary to make them comparable with the current period's figures.

Auditor's Report**For and on behalf of ERNET India**

**In terms of our report
of even date annexed
Prasad Azad and Co.
Chartered Accountants
Firm Reg.No. 001009N**

**K.M. Azad
Chartered Accountant
Partner
Membership No.05125**

**(Dr.Neena Pahuja)
Director General**

**(Meharban Singh)
Sr. Director &
Registrar &CPO (I/c)**

**(Vipin Aggarwal)
Director (Finance)**

**Place : New Delhi
Dated : 27.08.2018**

**Place : New Delhi
Dated : 01.08.2018**



Education & Research Network

An Autonomous Scientific Society
under Ministry of Electronics and Information Technology
Government of India

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