

Preface

Smart Virtual Classroom 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. The technology allows participants to communicate with one another, view presentations or videos, interact with other participants, and engage with resources in work groups. All the transmitted content, lectures and knowledge are being recorded and stored at the Data Centre in real time, as they happen, and hence Smart Virtual Classroom allows the accessibility of content post being delivered. This is an added benefit for those who want a quick refresher, or perhaps did not fully understand at the first time. The project will enable the school teachers to reach at far locations without physical presence and on the other hand empower the student to be taught by subject expert sitting at far end. The Identified DIETs will act as a mentor where specialized faculty will take the lecture and those lectures / teachings can be beamed live to the far end schools in an interactive manner over the internet.

The key benefits of the project are mentioned as below: -

- Bridging the digital gap between urban & rural education.
- Improving the quality of education to students from remote/rural part of the project states.
- Addressing the need of specialized teaching staff at remote/rural location and hence, bridging the shortage of teachers in rural Schools.
- Providing a single cross-state ICT enabled knowledge sharing platform for training & skill development and hence bridging the skilling gap.

Education and Research Network of India, or ERNET India, is an autonomous scientific society under the Ministry of Electronics and Information Technology, Government of India. ERNET India not only 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 India has developed a great network over the years, that provides numerous services to the education and research community.

The North Eastern Council is the nodal agency for the economic and social development of the North Eastern Region which consists of the eight States of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura. The North Eastern Council is the funding agency of the project.

Under this project, ERNET India has established Smart Virtual Classrooms in 75 Schools & 4 DIETs in 3 aspirational districts of Assam (i.e. 12 Schools in Barpeta, 11 Schools in Dhubri and 9 Schools in Goalpara) and 1 aspirational district of Sikkim (i.e. 43 Schools in West Sikkim). **के. मोजेस चलाई,** आई. ए. एस. सचिव

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GOVERNMENT OF INDIA NORTH EASTERN COUNCIL MINISTRY OF DEVELOPMENT OF NORTH EASTERN REGION NONGRIM HILLS, SHILLONG - 793003

Dated: 23rd April, 2021



MESSAGE

Dear Friends,

As we are aware, North Eastern Region (NER) of India covers the eight States namely Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura. North East Region has captivating blend of natural beauty, rich cultural heritage and abundant natural resources. In order to grow together, it is essential to work together and share knowledge.

North Eastern Council (NEC) is a statutory organisation entrusted with the role in promoting economic and social development of the North Eastern Region which also covers areas in digitization of education which is the need of the hour. Imparting quality education to the children of NER requires availability of quality teachers.

NEC with guidance of MDoNER (Ministry of Development of North Eastern Region) is taking steps to bridge this gap by initiating a key program called "Tele-Education-Technology Enabled Teaching".

In phase I, the Tele-Education program is being implemented in 4 Aspirational Districts of our region. Tele-Education Project aims to install and commission Smart Virtual Classrooms (SVC) in 75 schools and 4 DIETs of NER along with a conferencing ICT infrastructure at National Capital Region. This project will help to bring a convenient and virtual access of quality teachers to various schools of this region.

Here, I would like to encourage the students, teachers and nodal officers to make the best use of this opportunity by utilizing this infrastructure in best possible manner. With the help of Smart Virtual Classrooms, the students of our region in these schools would be able to learn from the best teachers of NER, virtually. I would like to impress upon State Education Departments to also utilize this infrastructure for conducting regular classes, objective based lectures, virtual workshops, exhibitions, vocational trainings, other virtual school events.

I would like to appreciate all the stakeholders and respective project members from NEC, ERNET India, State Education Departments, Nodal Officers and teachers of Assam and Sikkim, who have worked and collaborated for the successful installation and commissioning of this project.

Wishing you all, Happy Teaching and Happy Learning!!

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1.1 Project Brief

Project

Introduction of

In line with the vision of Digital India programme launched by Hon'ble Prime Minister, Smart Virtual Classrooms are being established in schools and DIETs of 8 north Eastern States in a phased manner under the funding support of North Eastern Council (NEC), Govt. of India.

Smart Virtual Classroom 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. DIETs/Schools can act as a mentor where specialized faculty can take the lecture and those lectures / teachings can be beamed live to the far end schools/DIETs in an interactive manner over the internet.

After various meetings, presentations and discussions, it was decided to implement the Tele-Education Facility by establishing Smart Virtual Classroom in 75 Schools & 4 DIETs in 3 aspirational districts of Assam (i.e. 12 Schools in Barpeta, 11 Schools in Dhubri and 9 Schools in Goalpara) and 1 aspirational district of Sikkim (i.e. 43 Schools in West Sikkim) in phase 1. The remaining Schools of NE States will be covered in a phased manner after the approval of North Easter Council (NEC).

A list of DIETs along with the schools from the mentioned 4 aspirational districts were provided to ERNET India by North Eastern Council based on availability of project pre-requisites. In the cases where the required pre-requisites are not found to be available during preliminary preparations, the North Eastern Council through State Education Department is ensuring the availability of requisite Internet connections at Schools and DIETs. The total number of targeted schools in the project is 75 Schools and 4 DIETs.

The project will enable the school teachers to reach at far locations without his/her physical presence and on the other hand empower the student to be taught by subject expert sitting at far end. The Identified DIETs will act as a mentor where specialized faculty will take the lecture and those lectures / teachings can be beamed live to the far end schools in an interactive manner over the internet and also gets recorded.

The use of modern Video-Audio & ICT Technologies will also improve the quality and effectiveness of education. This will also enable students and teachers to take advantages of the resources, distributed in different schools. It is also important to enable distance education & e-learning environment through live video streaming & playing of education video content over network to benefit large number of students in the remote and backward regions of the country.

This would also enable off-line access of classroom teaching at any later stage over the network through accessing the content from central recording server subject to the installed storage capacity of the recording server. This statewide infra would also help addressing the teacher shortage issue and ensure quality education delivery across the state / country on demand. ntroduction of Project

The key benefits of the proposed project are mentioned as below: -

- Bridging the digital gap between urban & rural education.
- Improving the quality of education to students living in remote/rural part of the project states.
- Addressing the need of specialized teaching staff at remote/rural location and hence, bridging the shortage of teachers in rural Schools.
- Providing a single cross-state ICT enabled knowledge sharing platform for training & skill development and hence bridging the skilling gap
- Increasing the accessibility to education by making it available from anywhere and at anytime.

1.2 Ministry of Development of North Eastern Region (MDoNER)

The Department of Development of North Eastern Region (DoNER) was set up in 2001 to coordinate the developmental efforts in the North Eastern Region (NER). It was converted into a full-fledged Ministry in 2004. It is the only Ministry with a territorial jurisdiction. Ministry of DoNER aims to give focused attention to address the special needs of the NE region. It coordinates with various Ministries/Departments primarily concerned with development activities in NER. However, respective Ministries/ Departments remain responsible for implementation of programmes in their respective fields. The Ministry implements various schemes, including schemes of Non-Lapsable Central Pool of Resources (NLCPR) that has been restructured as North East Special Infrastructure Development Scheme (NESIDS) and Special Packages through State Governments of NER and some Central Ministries.

The Ministry of Development of North Eastern Region is responsible for the matters relating to the planning, execution and monitoring of development schemes and projects in the North Eastern Region. Its vision is to accelerate the pace of socioeconomic development of the Region so that it may enjoy growth parity with the rest of the country.

1.3 Funding agency- North Eastern Council (NEC)

The North Eastern Council (NEC) was established in 1971 initially as an apex level advisory body aimed at securing a balanced and coordinated development, and facilitating effective co-ordination among seven States of North Eastern Region. Subsequent to the amendment of NEC act in December, 2002 Sikkim was added as eighth Member State, and NEC was mandated to function as a regional planning Body for the North Eastern Region (NER). The Council comprises of Governors and Chief Minister of Constituent States and three members nominated by the president. Through various schemes, the NEC, in conjunction with the Central Government and the constituent States seeks to translate into reality the aspirations of the people of the region as encapsulated in the NER vision 2020 Document, which articulates the broad goals for the development of the North Eastern Region. Since its inception, the NEC has funded the construction of 10,900 kms of roads, installation of 694 MW of power generating capacity and laying of 9200 kms of transmission and distribution lines, apart from the improvement of infrastructure of various airports in the region in collaboration with the Airport Authority of India. Besides, NEC has also assisted and promoted many iconic institutes such as Regional Institute of Medical Sciences, Imphal, North East Police Academy, Shillong, North Eastern Electrical Power Corporation Ltd, Shillong, B Barooah Cancer Institute, Guwahati, North East Indian Region Institute of Paramedical and Nursing Sciences, Aizawl, North East Space Application Centre, Shillong, etc. As a Resource Centre for the NE States, the NEC is also mandated to enable the states and implementing agencies to properly plan and execute projects, promote research and innovation and to provide strategic policy vision for the NE Region.

1.4 Implementing Agency- ERNET India

Education and Research Network of India, or ERNET India, is an autonomous scientific society under the Ministry of Electronics and Information Technology (MeitY), Gol. ERNET India not only 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 India has developed a great network over the years, that provides numerous services to the education and research community.

ERNET India is the nationwide terrestrial and satellite network with point of presence located at the premiere educational and research institutions in cities of the country. ERNET India'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, further to keep pace with the developing technology and enhancing innovation, ERNET India focuses in research and development in newer areas like Internet of Things, Virtual Reality, Augmented reality(AR) & Artificial Intelligence (AI)etc.

Being an exclusive registrar for Domain Services for education and research under .in registry- edu.in, res.in and ac.in. 5457 academic domains during the year and Total 14663 domains have been registered. ERNET India is also registering वद्या भारत (Vidya.Bharat) domains.

As we know, worldwide mode of Education is witnessing transcending transformation towards digitization and use of various technologies. Tele-education is no more a luxury, but a way of education which utilizes all forms of digital contents and delivers best of breed lecturers to the far flung areas using internet. A similar and extremely successful project which was funded by Ministry of Electronics and Information Technology (MeitY), Government of India has been envisaged, successfully implemented and operated by ERNET India. The concept of technology enabled teaching and learning through an online two-way interactive learning system is called Smart Virtual classroom. The implemented Smart Virtual Classroom successfully improved the quality of education, addressed the need of specialized teaching staff at remote/rural location and provided a single cross-state ICT enabled knowledge sharing platform for training & skill development of educationist / teachers. ERNET India established Smart Virtual Classroom facilities in 3204 Govt. owned/controlled schools plus 50 DIETs in Himachal Pradesh, Gujarat, Rajasthan, Tripura, Haryana, Andhra Pradesh and Tamil Nadu. The above project has been successful in conducting 20,016 sessions, benefiting 70,77,600 students and training 65,092 teachers across 3204 Schools and 50 DIETs till March 15, 2021.

ERNET India has always been in a sincere endeavor to find alternate means of connectivity solutions for the places where the connectivity has not been implemented or unsuccessful due to various challenges such as difficult terrain, River/ Railway tracks between the sites, frequent fiber cuts etc. In pursuit of exploring the alternative solutions, ERNET India has established a pilot R&D project based on free space optical communication technology (FSOC Technology) to provide high speed network connectivity between Kohima Secretariat and Kohima Science College, Nagaland. In research and development aptitude, ERNET India has been carrying out research activity on LiFi jointly with IIT Madras. Under this project, indoor LiFi Multi user testbed was setup to carry out experiments to study coverage range, optical power received at different coordinates, outage analysis at different distances in both Line of Sight (LoS) and Non Line of Sight (NLoS).

ERNET India as part of global project collaboration with APAN (Asia Pacific Advanced Network) Asi@Connect initiative, had actively participated in Cyber Performance Phase-I activity. Under this project, ERNET India had participated in the tech-culture fusion platform including training programs and Cyber Performances with 6 beneficiary countries, namely India, Vietnam, Malaysia, Bangladesh, South Korea and Pakistan. Subsequently, Cyber Performance Phase-II has been initiated for focusing production and broadcast of multinational cultural contents created by the beneficiary nations to document/broadcast aspects of local culture, history, ethnography, agriculture, health, musical and theatrical performance jointly with 5 beneficiary nations namely India, Bangladesh, Malaysia, Pakistan and Nepal.

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2.1 About the Smart Virtual Classroom

Smart Virtual Classroom 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. The technology allows participants to communicate with one another, view presentations or videos, interact with other participants,

and engage with resources in work groups. All the transmitted content, lectures and knowledge are being recorded and stored at the Data Centre in real time, as they happen, and hence Smart Virtual Classroom allows the accessibility of content post being delivered. This is an added benefit for those who want a quick refresher, or perhaps did not fully understand at the first time.

2.2 Major components of Smart Virtual Classroom

A smart virtual classroom needs to have students, teachers and shared video conferencing environment. Hardware components of the Smart Virtual Classroom are:-



- During an on-going session, the instructor can take class or share anything at the desktop and same will be reflected to all the participants through video conferencing software at their electronic interactive board.
- Professional desktop comes under this category which is connected with the internet and all activities done on white board are shared on

Teacher at DIET can view and interact with all the participants from all

Teacher at School can also view and interact with all the participants

All sessions will be shared through video conferencing solution.

from all schools/ DIETs through video conferencing software.

schools through video conferencing hardware codec.

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1.Computing

- 2.Video Conferencing
- - Polycom RealPresence Group 700 System i.e. Video Conferencing hardware Codec is ideal for Smart Virtual Classrooms, offering extreme video collaboration performance and flexibility.

Schools/DIETs can share their content from Desktop via projector on to the electronic interactive whiteboard during the sessions and the same will be visible to other Schools/DIETs through video conferencing

3.Codec

4.White Board & Projector

solution.

5.Camera

- The Polycom PTZ camera at DIET comes with manual-focus, electronic pan, tilt, and zoom (EPTZ).
- The Logitech webcamera at school captures the complete view of Smart Virtual Classroom.



 Under this category online UPS (Uinterrupted power supply) comes which is connected with all the equipments for continuous power supply. The UPS used in this project gives power backup of 1 hour.

2.3 High Level Solution Architecture of the Project



Diagram representing Tele-Education: Solution Architecture

The project will enable the school teachers to reach at far locations without physical presence and on the other hand enable availability of expert faculty. District Institute of Education & Training (DIET)/ Block Institute of Education & Training (BIET) locations in a district/ block will act as a mentor where high / professional quality equipment will be installed which can also be used as a studio for smart teaching by specialized faculty and those lectures / teachings can be beamed live to the other schools primarily in that district as well as in the adjoining areas.

- The architecture of this project is based on video conferencing based solution which uses the standard H.323 / SIP protocols for end to end / multi-party calls.
- DIET is connected to school through central infrastructure via internet. DIETs are equipped with hardware based Video Conferencing device & other hardware based electronic teaching aid equipments.
- Schools are equipped with Software based Video Conferencing application & other hardware based electronic teaching aid equipments.
- A central Infrastructure has been created that hosts MCU, scheduling s/w, Recording/ Streaming Solution for enabling storage of live sessions, offline access and multi-party conferencing.
- DIETs dial / connect to central infrastructure through internet which forwards call to schools and similarly when schools dial / connect to DIET, call is forwarded to corresponding DIET through central infrastructure via internet.

2.4 Benefits of Smart Virtual Classroom

- Schedule can be flexible, according to the needs of both teacher and students.
- Class duration is easily extendable, instructor and student time permitting.
- Schedule extra classes at your convenient time.
- Students can be a heterogeneous group, even global, with a variety of non-intersecting (and perhaps conflicting) social circles and customs.
- Student composition may vary greatly in age, profession, and academic background.

• Classes can be technology-driven and learner-centric, with the teacher as a facilitator. Teachers have better teaching tools to effectively engage learners. Virtual classrooms allow students more freedom to create experiment, explore and steer the class. This freedom can produce improved student performance.

• Modern teaching tools are used, such as multimedia, animation, 3D modeling, virtual, etc.

• Learning environment can be stimulating and fun. Moderation tools allow the teacher to easily control the class, just in case things get out of hand!

• Teachers and students collaborate online via audio, video, and text chat.

• It's easier to work with different learner types. Divide a single virtual classroom into breakout sessions, and let students of different levels work at their own pace, while the teacher moderates and facilitates.

• Easier to involve multiple teachers, and to bring in guest speakers from anywhere in the world.

• Classes are recorded, including audio, video and even screen. Students can review the instructor's exact explanation and methods, and administrators can review both the instructor's and students' performance.

• This feature is very useful, especially for absent students, who can review the recordings later and understand the concepts elaborated by the professors. Moreover, the students can also refer to the recordings for revision purpose, at their convenience.

• Professionals can take classes from home, anytime (even late nights or early mornings). Technology Based Training (TBT) yields a time savings of 35-45% over traditional classroom instruction.

- No travel costs. Teach and learn from anywhere.
- Virtual Classroom is green teaching, saves paper, and any other such costs.
- Classes conducted in virtual classrooms are comparatively cheaper, as much as 80%.

3.1 Roles and responsibilities of Schools/DIETs

- The nodal officer appointed of school/DIET by state authorities will be responsible for security of assets and also for functioning of Smart Virtual Class Room facility on an on-going continuous basis.
- School/DIET will devise its own procedures for orderly functioning of installed infra to ensuring optimum utilization thereof by the schools. While extending the facilities at selected schools, there will be no discrimination of any kind whatsoever amongst various sections of the community. School/DIET may, however, prescribe such procedures as are intended to impose reasonable restrictions on the exercise of any right for utilization of facilities at these schools in the interest of the general public
- School/DIET will bear all day-to-day recurring expenditure such as electricity, water, telephone charges, internet connectivity charges, stationary and Air conditioners if any for the up-keep of the ICT equipments.
- School/DIET will ensure that no levy in any form (fees or charges) is being imposed for the use of Virtual smart classroom infrastructure provided under this project.
- It is the sole responsibility of School/DIET to ensure the availability and upkeep of project prerequisites like electricity, electrical earthing and requisite internet connectivity.
- School/DIET is responsible for creating the monthly teaching schedule and further conduction of regular classes as per the schedule. They are also responsible to ensure that Students must attend the Smart Virtual Classroom lectures.
- School/DIET is responsible to prepare the content for taking Smart virtual classroom lectures.
- School/DIET is responsible to ensure the optimal utilization of the installed Smart Virtual Classroom infrastructure.
- The access to the facilities provided at project locations shall be fully secured by the School/DIET. The facility shall also be managed on a day to day basis by the School/DIET through personnel specifically trained for functioning of the technical equipment installed at School/DIET.
- School/DIET is responsible to ensure orderly functioning and optimal & objective based utilization of the installed Smart Virtual Classroom infrastructure. School/DIET is also responsible to provide necessary support required to ERNET India during the project period.
- School/DIET is responsible to provide required infrastructure support to the ERNET India for orderly functioning of project site. The infrastructure support includes interalia, adequate and smooth power supply and also provisioning of electric cabling upto the equipments in the smart classroom, ensuring uninterrupted raw power supply and earthing of all the electric points to ensure due protection to the sensitive and expensive equipment installed at School/DIET, deployment of suitable person, and security of the premises and the equipments installed therein, as also providing adequate security to the personnel managing the location and to the end users.
- School/DIET is responsible to assist ERNET India or its authorized vendor and shall extend all possible support for timely and successful implementation of the project.

- School/DIET is responsible to ensure availability of requisite infrastructure, provision of adequate security and due protection against any unlawful or immoral use thereof and will also devise the procedures for ensuring that the site remain safe and is not put to any immoral or unlawful usage. School/DIET shall indemnify the ERNET India for any loss resulting due to non-adherence of the same.
- School/DIET is responsible to provision the appropriate project pre-requisites identified by ERNET India like minimum 200 sq. feet. Classroom (properly roofed, cemented wall and flooring, proper white wash, acoustics, with at least a fan in the classroom, proper light/bulb, no water leakage and proper decorum), electricity, suitable electrical earthing for SVC equipments at all power sockets, 2 Mbps dedicated Internet at Schools, 2 Mbps dedicated leased line Internet at DIETs, etc.
- School/DIET is responsible for any type of coordination in respect of electricity, earthing, Internet connectivity, etc. for rectifying the issues if occurs during the project period.
- School/DIET is responsible to ensure that equipment installed in the school/DIET must not be tampered with in any manner without prior approval and due consent of ERNET India. Any tampering or un-authorized access to these equipments may lead to ceasing of warranty clauses.
- School/DIET is responsible to ensure that DIETs/Schools should prepare the monthly session plan and will share the same with their respective schools and ERNET India team in advance.
- School/DIET is responsible to schedule those sessions as per the monthly sessions plan and conduct regular curriculum-based classes. The School/DIET may also plan to include special objective-based classes like IIT-JEE/NEET preparation classes, other competitive exams preparation classes, digital literacy and computer awareness classes, carrier counselling classes, Skilling & its advantages, Science labs, social awareness and health awareness classes like awareness for Dengue, Awareness towards digital payments, Disaster management, E-waste management, Promoting Swachh Bharat Abhiyan, Yoga classes, Human rights related lectures, etc.
- School/DIET is responsible to prepare digital content for taking regular lectures/classes through Smart Virtual Classrooms.
- School/DIET is responsible to arrange or join any special events through Smart Virtual Classrooms in case if any central/state authority would seek to talk to students or to propagate some special messages/communication to Schools & DIETs like any launch program, Swachhta Awareness, Digital awareness, etc.
- School/DIET is responsible to ensure to follow all Do's and Don'ts best practices to be prescribed by ERNET India time to time during the project period in Smart of Smart Virtual Classrooms.

4.1 Smart Virtual Classroom Layout at DIET:



List of equipments supplied at DIETs:

- 1. PTZ Camera
- 2. 2 way Active Wall-mount Speaker
- 3. LED Screen
- 4. Electronic Interactive Whiteboard
- 5. 8-Port Unmanaged Switch
- 6. Collar Microphone
- 7. Remote Control
- 8. Monitor
- 9. Online UPS with Batteries
- 11. CPU
- 13. Omni Directional Microphone
- 14. Video Conferencing Hardware Codec
- 15. Short-throw Projector

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4.2 Lis	t of	equipment	setup	at DIET
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Item Description	Make	Connected to
1. CPU & TFT	Acer M200 B350	 UPS for power input. CPU and TFT are connected through VGA Cable. Interactive Board through USB. DVI to Video Conferencing Machine Projector through HDMI Cable Mouse and Keyboard via USB and speaker though 3.5 mm Audio Port. LAN Cable for Internet.
2. Speaker	Zebronics VA200	UPS for Power InputCPU through 3.5mmAudio port.
3. Display Screen LED-40"	Samsung DC43J	• UPS for power input and to Video Conferencing Machine through DVI at Video Conferencing Machine end - HDMI at LED screen end.
4. Video Conferencing Device	Polycom Group 700 Series	 Connected to UPS for power input. Connected to LAN port for internet connectivity. Omnidirectional Mic connected to Codec. LED through HDMI port at LED end and DVI port at Video Conferencing Machine end. EagleEye Camera connected to Codec through HDCI Cable.

5. Electronic White Board	Brio Touch Ceramic SR90	• CPU through USB cable.
6. Short-throw Projector	Acer S1388WHN	Connected to UPS for power input.CPU through HDMI cable.
7. Online UPS with batteries 1 KVA	Uniline GL-1000VA	• AC Mains for power input and Output of UPS is given to System, Monitor, Projector, LED, Codec
8. Collar Microphones	Sennheiser EWDI- ME2-NH-NT	 UPS for power input Video Conferencing Device through Audio Jack
8. Collar Microphones 9. 8 Port Unmanaged switch	Sennheiser EWDI- ME2-NH-NT TP Link TL-SF1008D	 UPS for power input Video Conferencing Device through Audio Jack UPS for power input Networking distribution

4.3 Description of Equipment supplied at DIET

4.3.1 Desktop- Make ACER: Model- Veriton M200 B350



Desktop & System unit

The desktop is used to share content to the white board. Users can make presentations on the desktop and directly share it with the students using white board. The system unit is the core of a computer system. Usually it's a rectangular box placed on or underneath your desk. Inside this box are many electronic components that process information. Almost every other part of your computer connects to the system unit using cables. In the front there is power ON/OFF buttons using which you can TURN ON/OFF your system unit. The cables plug into specific ports (as shown in the below picture) at the back of the system unit.



1. Power Socket for electricity supply to CPU

2. Fan internal hardware in CPU for minimum heat

3. Mouse Socket to connect mouse

 Keyboard socket to connect Keyboard
 DVI Socket to connect Video conferencing machine 6. VGA Port for Monitor

7. HDMI port to connect monitor, projector etc

- 8. USB port
- 9. Ethernet Socket
- 10. MIC point
- 11. Speaker point
- When you turn ON CPU, login with username and password which you can request from your respective Nodal Officer, to make it functional.
- Other important parts are monitor, mouse, key board and speakers.



4.3.2 Electronic Interactive Whiteboard: Model- Brio Touch

Ceramic SR90

We are using Brio Interactive white boards in this project to make learning more attractive and interesting. Interactive Whiteboard Software enables you to combine multimedia contents and various files with your lesson consistently. An easy-to-reach intelligent pen tray holder enables the start-up of software by picking up the intelligent pen. Two colour pens (black and red), an eraser and a pointer are provided for convenient operation on the Brio Interactive whiteboard. White is mounted on wall connected to computer through USB cable.

Electronic Interactive Whiteboard features

- Writing: User can write and draw with pens or fingers or any non-transparent object directly on the display panel and show the written information instantly during a presentation. The surface also support normal marker writing and can remove the writing with eraser without any shadow.
- Annotation: The user can operate and annotate over any format files including .ppt, .doc, .xls, .avi, .mpeg, .jpeg, etc.
- Touching: In working mode it can be a high precision touch Interactive White Board. User can use their fingers or a wand as a mouse to click and drag directly on the display panel.
- Touch Recognition: The electronic interactive whiteboard can recognize touch of a single-finger, multiple fingers, double click, left click and right click.
- Hot lcons: Hot icons are present on the both sides of the board; these icons can be used on either side of the board. They are used to do function within the annotation software.
- Smart Pen tray: The user can change the colour of the pen from the pen tray. The colour is automatically detected from the sensors.
- Display Panel: The board has a high gain and high contrast display.
- Energy Conservation: Power consumption is less than 0.5W. There isn't a need for any independent power supply.

Electronic Interactive Whiteboard Calibration

The strokes on the electronic interactive whiteboard should coincide with actual ones, so calibration is needed for proper functioning of the electronic Interactive White Board. This need to be repeated every time when system is restarted. The electronic Interactive whiteboard needs to be calibrated for the following situations.

- It is used for the first time.
- Electronic Interactive Whiteboard software has been reinstalled or updated.
- The position of the electronic Interactive whiteboard or projector is changed.
- Computer connected to the electronic Interactive whiteboard is changed.
- Computer's resolution ratio or refresh rate is changed.
- Calibration deviation caused by other reasons.

Calibration Process

- Connect all necessary devices and make sure the electronic Interactive Whiteboard service program has been automatically launched once the Computer's power is on. If not, click "one touch" software and run the White Board service program. It will take a few seconds for the program to load.
- 2. Adjust the projection angle and make sure the projection area is within the White Board display area.
- Left click on the electronic Interactive Whiteboard program icon at the bottom right of the screen and you will see the following: Click "Calibrate" and the calibration screen will be displayed.
- 4. Touch the centre of the flashing "+" with the electronic Interactive Whiteboard pen tip.

Notes

- Wrong calibration may lead to the electronic Interactive whiteboard not working properly and this requires recalibration.
- Pressing "ESC" during calibration can cancel the current calibration operation.
- Red light appears on Left hand bottom corner of electronic Interactive Whiteboard when it is passive
- Blue light appears on Left hand bottom corner of the electronic Interactive Whiteboard when it is active.
- Calibrate through pen only.

Screen Keys/ Hot Keys

Screen keys, also known as hot keys, are the icons found on both the sides of the White Board. If the whiteboard is set with hot keys and the 'one touch' software is not running, you can run ONE TOUCH by tapping one of the hot keys.



4.3.3 Short Throw Projector: Model- Acer S1388WHN

Port Details

- 1. VGA Ports used to connect with CPU
- 2. Serial Ports
- 3. Audio Jacks

- 4. Video Jack
- 5. Ethernet Socket
- 6. HDMI port
- 7. Power socket

In this project we are using S1388WHN model of Acer make. This device is used for projection of any live or stored content on the white board screen. It is mounting on the roof of the room projecting towards white board and connected with Desktop through HDMI/VGA cable. It comes with a remote control for operating its various functions. Although doesn't require day to day setting, it is once set for all.

- 1. To use Projector always ON / OFF only through Remote, Separate button for ON and OFF.
- 2. After ON you can see blue light after 1 minute.
- 3. To Select Source, press HDMI button on remote.
- 4. Auto adjust for resolution
- 5. Zoom OUT / IN for extra clarity of the view.
- 6. After switching OFF from remote, wait for orange light to become stable (1 minute) then power off the switch.
- 7. Check the Lamp Hours usage from the settings last menu.



Details of buttons

- 1. Source: Select source HDMI
- 2. ON and OFF button- ON and OFF only through Remote.
- 3. Scroll UP
- 4. Scroll down
- 5. Laser light- button used for pointing
- 6. Zoom OUT / IN button for extra clarity of the view
- 7. Freeze Button to still the image on the screen
- Remote operates from Front and Back side. There is also option for this setting to change. Default it is Front/Back enabled.
- When you turn ON / OFF projector it takes 1 minute to perform action. Please check the indicator and wait for a while.

4.3.4 Online UPS with batteries-- Uniline GL-1000VA



- An Uninterrupted Power Supply (UPS) is an Electronic device that keeps the Computer and other equipment attached to it operational when the primary power source is lost, for at least a short duration. It also provides protection from power surges. In this project Greenline model of UNILINE with four batteries is being used providing one hour power backup based on the condition that the batteries are fully charged. Display button to display the current settings.
- By pressing the power button once, Voltages are displayed, Load is displayed in percentage.
- By pressing the power button twice, Ampere is displayed.
- To switch off, long press the power button till the beep is heard.

• Light Indicators

Bye-pass Mode: One orange light glows (When there is no power). Input – Output: Two green light glows (When there is power and UPS is online).

• Charging: One orange light glows (indicating Battery is charging), Beep sound with interval, there is no power and UPS battery is discharging.

4.3.5 Zebronics Speakers VA200









Speakers ensure that Students can audible to the whole class and no one misses out on important points by Teacher.

Follow these step-by-step instructions to attach speakers to your computer

- Step 1: Ensure that the computer is turned off.
- Step 2: Plug the speakers into the power socket.
- Step 3: Locate the 3.5mm jack connected to the cable at the back of the speakers. You'll use this plug to attach them to your computer tower.
- Step 4: On the back of the computer tower are a number of small, round, colour-coded sockets. The one to plug your speakers into is usually green. It may also be marked with a headphones symbol or be labelled 'Audio out'.
- Push the jack into this socket firmly to get a good connection. But don't continue pushing if you meet any resistance the socket is attached to the sound card on the computer's mother board, and if you push too hard, you could damage it.
- Step 5: In some speaker set-ups, there's an additional 'subwoofer', a larger third speaker that provides bass sounds. Before plugging this in, find out if your sound card can support multiple speakers. If it does, follow the colour coding on the back of the tower as you connect the jacks plug the green jack into the green socket, the black jack into the black socket and so on.
- Step 6: Turn on your computer and speakers and adjust the volume control. Your computer is probably set to play a small tune when it's turned on. If you now hear it, you'll know that the speakers are on and working. But don't worry if you don't hear it.

- Step 7: The computer should recognise the addition of speakers to your system and will respond accordingly. Possibly it will say 'New driver detected' and run through a short set-up process. You'll need to click 'Yes' to allow it to make the appropriate changes.
- Step 8: To test that your speakers are working, play something you know has a soundtrack. Pop a CD or DVD in the DVD drive or watch a clip on YouTube. You may also notice that sounds now occur when simple functions are carried out – for example, a noise when you click a button or open a window or when an email arrives.

4.3.6 Sennheiser Collar Mic EWD1-ME2-NH-NT



The microphone which is suitable for both speech and instrument miking applications.

- High speech intelligibility
- Easy attachment on clothing
- Mini jack for bodypack transmitters from evolution wireless series, AVX, Speech Line Digital Wireless, XS Wireless

4.3.7 8-Port unmanaged Switch TP Link TL-SF1008D



- 8 10/100Mbps auto-negotiation RJ45 ports.
- Green Ethernet technology saves the power up to 60%
- IEEE 802.3x flow control provides reliable data transfer.
- Plug and play, no configuration required.

4.3.8 Computer Table

auipment setup



Good quality wooden table with finished surface of size: 4 ft L x 2 ft W x 2.5 ft H with iron rode legs & arms. Table should have sliding tray for keyboard & mouse. Provision for CPU & UPS should be separately available in the table.

NOTE: Refer to **section 6.3** of this manual for the details of Video Conferencing Equipments i.e. LED Display Screen, Polycom RealPresence Group 700 Video Conferencing Hardware Codec, PTZ Camera, Microphone supplied at DIET.

5.1 Smart Virtual Classroom Layout at School:



List of equipments supplied at Schools:

- 1. Short-throw Projector
- 2. 2 way Active Wall-mount Speaker
- 3. Web Camera
- 4. Electronic Interactive Whiteboard
- 5. Monitor
- 6. Handheld Microphone
- 7. CPU
- 8. Online UPS with Batteries

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Item Description	Make	Connected to
1. CPU & TFT	Acer M200 B350	 UPS for power input. CPU and TFT are connected through VGA Cable. Interactive Board through USB. DVI to Video Conferencing Machine Projector through HDMI Cable Mouse, Keyboard and speaker though USB Cable. LAN Cable for Internet
2. Speaker	Zebranoics VA200	UPS for power inputCPU through USB port.
3. Electronic White Board	Brio Touch Ceramic SR90	• CPU through USB cable.
4. Short-throw Projector	Acer S1388WHN	UPS for power inputCPU through HDMI cable.
5. Online UPS with batteries 1 KVA	Uniline GL-1000VA	• AC Mains for power input and Output of UPS is given to System, Monitor, Projector, LED, Codec
6. Full HD Web Camera	Logitech C930e	CPU through USB port
7. Handheld Microphones	Sennheiser XS-1	CPU through Audio Jack
8. Computer Table	_	Keyboard TrayMouse TrayDrawer

5.3 Description of Equipment supplied at School

5.3.1 Desktop- Make ACER: Model- Veriton M200 B35



Desktop & System unit

The desktop is used to share content to the white board. Users can make presentations on the desktop and directly share it with the students using white board. The system unit is the core of a computer system. Usually it's a rectangular box placed on or underneath your desk. Inside this box are many electronic components that process information. Almost every other part of your computer connects to the system unit using cables. In the front there is power ON/OFF buttons using which you can TURN ON/OFF your system unit. The cables plug into specific ports (as shown in the below picture) at the back of the system unit.



1. Power Socket for electricity supply to CPU

2. Fan internal hardware in CPU for minimum heat

3. Mouse Socket to connect mouse

4. Keyboard socket to connect Keyboard5. DVI Socket to connect Video conferencing machine

- 6. VGA Port
- 7. HDMI port to connect monitor, projector etc
- 8. USB port
- 9. Ethernet Socket
- 10. MIC point
- 11. Speaker point
- When you turn ON CPU, login with your given username and password to make it functional.
- Other important parts are monitor, mouse, key board and speakers.



5.3.2 Electronic Interactive White Board: Model- Brio Touch

Ceramic SR90

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- 4. Video Jack
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Details of buttons

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5.3.4 Online UPS with batteries-- Uniline GL-1000VA



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- To switch off, long press the power button till the beep is heard.

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5.3.5 Zebronics Speakers VA200



Front



Speakers ensure that Students can audible to the whole class and no one misses out on important points by Teacher.

Follow these step-by-step instructions to attach speakers to your computer

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- Step 8: To test that your speakers are working, play something you know has a soundtrack. Pop a CD or DVD in the DVD drive or watch a clip on YouTube. You may also notice that sounds now occur when simple functions are carried out – for example, a noise when you click a button or open a window or when an email arrives.

5.3.6 Full HD Web Camera Logitech C930e



School

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oment

USB connection to PC

C930e supports H.264 with Scalable Video Coding (SVC) and UVC 1.5 encoding to minimize dependence on computer and network resources to produce remarkably clear video at all times.

5.3.7 Sennheiser Handheld Mic XS-1



XS 1 has been designed for users who appreciate simplicity, upfront vocal presence in the mix, and no complications. This versatile new microphone provides professional live sound for those getting started, rejection and silent mute switch for flexibility and control. XS 1 comes in an all-metal housing and therefore is a reliable companion on any stage.

5.3.8 Computer Table



Good quality wooden table with finished surface of size: 4 ft L x 2 ft W x 2.5 ft H with iron rod legs & arms. The table has a sliding tray for keyboard & mouse. Provision for CPU & UPS should be separately available in the table.
6.1 About Video Conferencing Solution

- The Centralized control system is established in Delhi at ERNET India'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.
- All internal & external calls lands on the Centralized control system.
- For external calls, the calls initiated from the DIET locations lands on WAN port of DMA edge installed at Centralized control system through internet and then forward it through LAN port to DMA core installed at Centralized control system. After that DMA core forwarded the call to MCU (RMX Server Polycom) bridge installed at Centralized control system to collab all the participants.
- All users are created on Realpresence manager(RPRM) by admin.
- All VMR (Virtual Meeting Room) are created on DMA Core.

6.2 Video Conferencing Solution at DIET

ERNET India has established Video Conferencing Solution at 4 DIETs across Sikkim and Assam. Out of total 4 DIETs, 1 DIET is in Sikkim and 3 DIETs are in Assam. All four DIET locations are equipped with Smart Virtual Classroom Setup (RealPresence Group Series 700).RealPresence Group Series 700 comprises of technologies for the transmission of audio-video signals by users in different locations, for communication amongst people in real time.

6.3 Equipment Supplied for Video Conferencing at DIET:

6.3.1 LED Display screen-43" Samsung



Video Conferencing Solution



Under the project Samsung LED DC43J is installed at each DIET location and is used for video conferencing interaction. This LED gets power supply through UPS and is connected with video conferencing machine. It is operated through remote control. Some important features of remote are given below.



Remote's frequently used buttons details.

- 1. ON
- 2. OFF
- 3. Mute
- 4. Volume
- 5. Main menu

6.3.2 Realpresence Desktop Client

- Polycom RealPresence Desktop is an easy-to-use video collaboration app that provides HD quality audio, video and content sharing for PC users. Unlike similar proprietary applications, RealPresence Desktop is standards based and extends your organization's existing video-enabled network, giving end users the same high quality experience from within the office or while on the road.
- User's from school need to download a software application of Polycom

6.3.3 Polycom RealPresence Group 700

The Polycom RealPresence Group 700 solution is designed to be integrated into larger meeting rooms, training rooms, classrooms, and other workspaces that have more complex requirements. Such rooms demand additional flexibility in video, audio and content collaboration, and often need to be closely coupled with other room components for a fully integrated experience.

Product Specification of Polycom RealPresence Group 700

This package is consists of the following equipments:

• RealPresence Group 700 codec

Polycom PTZ Camera

- RealPresence Group Microphone Array
 - rophone Array Remote control
 - Rack (19") mounting ears

Cable bundle

6.3.3.1 Polycom RealPresence Group 700 Codec



Ports in RealPresence Group 700 codec:

• 2 x HDCl

olutio

Conferencin

Video

- 2 x RealPresence Group microphone array input ports (supporting a total of 4 microphone arrays)
- USB headset support
- 2 x HDCI (camera)
- 3 x HDMI

- 2 x RCA line-in
- 3 x HDMI 1.4
- 1 x YPbPr component
- 1 x dual RCA composite
- 1 x VGA
- 3 x HDMI 1.3
- 3 x VGA

6.3.3.2 Polycom RealPresence Group 700 Remote Control



You use the remote control to place calls, adjust the volume, zoom the camera, navigate screens, and select options. The RealPresence Group systems and the EagleEye cameras have infrared receivers. You can control your RealPresence Group system by pointing the remote control toward the RealPresence Group system or the EagleEye camera (if connected). You might need a special cable to connect an SDI camera to the system to receive infrared signals from the remote control. For more information about the cable, contact Polycom support

6.3.3.3 Polycom RealPresence Group 700 PTZ camera



The Polycom PTZ cameras are completely digital with a 4k sensor designed to work with

RealPresence Group Series systems. These cameras support 1080p60 resolution and are available with either 12x or 4x zoom capabilities. Polycom PTZ camera Producer uses innovative facial-tracking algorithms to accurately frame all room participants, or focus on the person speaking—whichever you prefer, eliminating the "bowling alley" view that is all too common in video calls.

6.3.3.4 Polycom RealPresence Group 700 Table Top Microphone



Solution

Conferencing

/ideo

For a more immersive feel, Polycom offers the highest performance speaker tracking experience, transmitting facial expressions and body language for higher impact and more productive video collaboration

6.4 How to login in Video Conferencing Hardware Codec at DIET:



Step 1:

Press the Power button of Polycom RealPresence Codec.

Upon pressing the Power button of Polycom RealPresence Codec, the video conferencing system starts to boot up.



Step 2: Automatic Login

After the boot up completion of Video conferencing system, the user will get automatically logged in to VC system at DIET using pre-configured settings. Upon the successful login, the adjacent screen shall appear.

6.5 How to join in a Video Conferencing room for the session at DIET:



Step 1: Place a Call (Audio/Video) After selecting 'Place a call' icon, you can place a call using three options:







1.1 Keypad: Navigate to the 'Keypad' icon, dial in the desired number and place the call using VC.

1.2 Contacts: Navigate to the 'Contact' icon and type in the desired contact's name.

A list of contacts containing the typed word will appear on the screen.

Choose the desired contact from the list to place the call.

1.3 Recent Calls: Navigate to the 'Recent Calls' icon and select the desired contact to place the call.

6.6 Understanding the Status Icons in Video Conferencing Hardware Codec at DIET:



Home Key

Once you press Home Key on remote, you will get back to the Home screen of the VC .



Content Icon

Navigate using remote and click on 'Content' icon, Visual Board option will appear. This is an additional feature in case you connect any additional peripheral devices.





Visual Board

By selecting Visual Board you can see the screen.

Menu Key

Menu Key allows you to navigate between the following options: Camera Navigation, Camera off, Mute and Volume.



Camera Navigation

By using the Camera Zoom IN Zoom out key we can see Full screen. You can adjust camera by using + & - Key on the remote. Also, you can adjust right, left, up and down by using Navigation keys.



Volume Key

By pressing the Volume Key on the remote we can adjust the volume of the system for voice and video call as shown in the image.



Mute Key

Mute key allows the user to mute and unmute during an on-going session.

6.7 Sharing Content via Video Conferencing Hardware Codec at DIET:



Step 1:

Connect to a conference call to share the content.



Step 2:

After connecting the call, press "Up Arrow Key" via using polycom remote, a new tap sections open. Using "left arrow key" in remote, press 'content' tab shown at left corner of the screen.



Step 3:

Press the "content" tab and your content will be shown to the far end participants.

6.8 Video Conferencing Solution at School:

ERNET India has established Smart Virtual Classrooms in 75 Schools & 4 DIETs in 3 aspirational districts of Assam (i.e. 12 Schools in Barpeta, 11 Schools in Dhubri and 9 Schools in Goalpara) and 1 aspirational district of Sikkim (i.e. 43 Schools in West Sikkim). All 75 School locations are equipped with a software based conferencing client called RealPresence Desktop (RPD) Client. The Acer desktops provided at schools as a part of Video Conferencing solution have been installed with RPD Client also known as Soft Client.

6.9 How to login and share content via Video Conferencing RPD Client at School



Step 1:

Click on this (RPD) icon on your desktop screen.

You will find this icon on your desktop's home screen as RPD client has been pre-installed on all of the desktops provided with the VC Solution.



Step 2:

Enter your login credentials. You can request for User Name and Password from your respective Nodal Officer (NO).



Step 2: Click on 'Place a Call' After you login, the adjacent screen appears showing the following options: 1. Place a Call 2. Connect to Room

6.9.1 Place a Call

After clicking on 'Place a Call', there will be four different options, three of them allows the user to join a video conferencing session while the fourth one allows the user to chat during an on-going session.



1. Placing a call via Keypad

Step 1: Navigate to the keypad icon.

Step 2: Enter the meeting id in the space provided.

Step 3: Click on 'Call'





Process Kallware: Toking

2. Placing a call via 'Recent Calls'

Step 1: Navigate to the 'Recent Calls' icon.

Step 2: Click on the desired contact to place the call.

3. Placing a call via 'Contacts'

Step 1: Navigate to the 'Contacts' icon.

Step 2: Type in the desired contact's name. A list of all the contacts having the typed word would appear on the screen.

Step 3: Click on 'Call' to place the call.



4. Chat

Step 1: Navigate to the 'Chat' icon.

Step 2: Click on 'Add' icon to type the name of the participant the user wants to chat with.

Step 3: Select the desired contact's name to start the conversation with him/her.

6.9.2 Content Sharing via Video Conferencing RPD Client

After a call has been placed, the user will be able to view the following screen. In order to share the content with the connected participants, perform the following steps:



Step 1: Click on the 'Menu' icon located at the bottom right of the screen. The menu icon opens a vertical tool bar on the right of the screen.



Step 2: Click on the 'Content Sharing' icon.

The content sharing icon is located at the bottom of vertical tool bar and just above the menu icon.



Step 3: Click on the 'Desktop 1' to share the contents.

Upon clicking on 'Desktop 1' there'll be a list of contents that the user can share. He/she can choose what to share with the participants.



The following screen appears once the content sharing starts. A green banner will appear on the screen once the content starts to share, you can stop sharing content by clicking on 'Stop'.

6.10 Understanding the status icons of Video Conferencing RPD client at School



Hide/Un-Hide Self View

The user can click on hide the self view, and click on it again to un-hide it.

Hiding Self view allows the user to accommodate multiple screens when there are more participants in a session.



Pause my Video

The user can click on 'Pause my Video' icon to stop sharing his/her video and click on it again to start sharing it.



Mute/Un-Mute

The user can click on 'Mute' icon to stop sharing his/her audio with the participants and click on it again to start sharing it.



Volume

The user can increase and decrease the volume during a session with the Volume toggle bar.

End Meeting Click on end meeting once the session is completed.

01:19:44

01:29:0



Call Setting

Allows the user to choose a video device to join in a meeting and to choose audio input like microphone and video output device like speakers/headphone in a meeting.



Keypad

To use DTMF code in a meeting, click on keypad icon. DTMF codes are generally defined on call controlling server (Polycom MCU) and provides role to the user to use different actions like to hold a call, start recording etc.

Far End Camera Control

User can control the camera of end point using 'Far-end' camera control feature



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Select Contact

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Far End Camera Contr

Allows the user to chat with a participant during an on-going session.

Step 1: The user needs to click on the 'Add' icon at the top right corner.

Step 2: The user then needs to enter the participant's name with whom they want to chat.



Step 3: The user can now start a conversation with the participant by typing message in the space provided.

7.1 Introduction to the Project Portal

A project portal has been created to facilitate the easy usage of SVC infrastructure including but not limited to scheduling new sessions, view the recordings of previous (historical) sessions, etc. It also would be used to monitor the usage of SVC infrastructure. The different types of users can be created using this portal who can then use the portal and infrastructure based on their roles and responsibilities. The roles and responsibilities of the users can be updated using this project portal. The URL address of the portal is http://necsmartclass.svc.ernet.in. Once, the user enter the given URL address, the following page will open:



7.2 Hove Step 1: Na Image: Contract of the step image: Contract of the

7.2 How to login into the Project Portal

Step 1: Navigate to the 'Login' button and click on it.

Step 2: Now the user will enter the credentials to be provided by their respective DIETs'/Schools' Nodal officer.

R	User Login	×	+			-	٥	×
÷	\rightarrow C	A Not secure nec	smartclass.svc.ernet.in/Lo	jin/UserLogin		0 v 🕁	Θ	:
				Sign In I SKM_WESKM_S_31_0031 Image: Comparison of the second	Ergot Pasaword			

Each user's access privilege is defined based on the 'role' selected by the user. For e.g., upon logging in as a **School User, the following dashboard will open.**

≡	ERNE						2	8 Welcome	Sardong S	iS Sikkim 👻
€	New Session Sessions History	Dashboard	Subject Search Subject	F	rom Date	To Date		Sessions	11	C Refresh
0	Upcoming Sessions Recorded Sessions	Subject				Teacher				
10 +	Shared Documents New Asset	Maths -4 Testing -0 Science -7				badal				
•	New Asset Go	Ergenta -0 5 10	10			BISHAL Mc: Rahal Mongo Chow finith Rahal Rahal Rahal Rahal Krz				
						Class				

7.3 Understanding the Homepage

Once, the user logs in, he/she lands on the homepage which is broadly divided into two parts:

1. Actions' Menu: Provides functionalities around sessions, upcoming sessions, recorded sessions, shared documents and assets.

2. Dashboard: Provides the details of number of sessions conducted per subject by the respective teachers.

7.3.1 Understanding the Actions' Menu

The actions' menu is located on the left side of the homepage. After the user logs in, it provides the user with various functionalities related to sessions, upcoming sessions, recorded sessions, shared documents and assets.

7.3.1.1 New Session

Use 'New Session' menu to schedule new session in the portal.

Step 1: Fill the 'New Session' form for which the instructions are given below:

State: It will be auto selected as you logged in as a state user.

You can only select **DIET** from the list which is under the selected state.

Here you will see the different fields, those marked with "*" are compulsory fields:

Session: Here you need to provide the name of session which you are scheduling.

Description: A short description about session can be provided here.

Class: You need to specify the class for which the session is being scheduled.

Subject: The subject regarding to this session should come here.

Teacher: Name of the dedicated teacher will be entered in this field.

Topic: the topic covered in the session will be entered.

From: The session start timings should be provided here.

To: The session end timings should be provided here.

Session Detail							
State* Si	ikkim	~	Diet	DIET Gyalshing Sikl	kim	~	
Session* Sc	Science Seminar 10th Mr. Rahul		Description	A seminar is to be conducted. Science States of Matter			
Class* 10			Subject*				
Teacher Mr			Торіс				
From [*] 16	5-Mar-21 05:00	0	то•	16-Mar-21	06:00	©	
Districts* 1	selected	•	Schools*	Select		•	
Share Webcast Link 🗹			Auto Recording	2			

Step 2: Districts: Select the district name here.

New Session				÷
Session Detail				
State*	Sikkim	✓ Diet*	DIET Gyalshing Sikkim	
Session*	Science Seminar	Description	A seminar is to be conducted.	
Class*	10th	Subject*	Science	
Teacher	Mr. Rahul	Торіс	States of Matter	
From*	16-Mar-21 05:00 C	D To*	16-Mar-21 06:00 O	
Districts*	1 selected	- Schools*	Select -	
Share Webcast Link	Q Search S	Auto Recording		
	Select all Imphal West			

Step 3: Schools: The name of schools to join this session should be selected here.

New Session								
Session Detail								
State*	State* Sikkim 🗸		Diet*	DIET Gyalshing Sikkim		~		
Session*	Science Seminar			Description	A seminar is to be cor			
Class*	10th			Subject*	Science			
Teacher	Mr. Rahul			Торіс	States of Matter			
From*	16-Mar-21	05:00	0	To*	16-Mar-21	06:00	0	
Districts*	1 selected		-	Schools*	Select		•	
Share Webcast Link	Z			Auto Recording	Q Search		8	
	巴 Schedule				Select all Bongten SS Sardong SS Langang SS		_	

Share Webcast Link and Auto Recording options will be shown as auto selected always. You can manage both check-boxes accordingly.

Click on schedule button to create a session and session will be save in the Sessions tab.

7.3.1.2 Sessions History

Use 'Sessions History' menu to view the history of sessions in the portal. This menu represents the previous sessions in a highly detailed and structured manner.

After clicking on Session History, the user can view the history of sessions here:

Sessions Histo	ry					Search			c	+ New Se	ssion		
🦚 🖹 🖨 🎯 🏷	≞ Q ⊞ Ø %			View All			\$	Select Cu	stom Vi	ew	÷	Custom Vie	w
Session	Description	Conference Room No	Conference Room	Start Date	Start Time	End Date	End Time	State	Class	Subject	Teacher	Торіс	W lir
XYZ	DCS	1144	Sardong SS	26-Mar-21	11:00	26-Mar-21	12:00	Sikkim	6th A	Science	XYZ	SOLUTION	Y€
ABC	event	1144	Sardong SS	25-Mar-21	11:37	25-Mar-21	12:38	Sikkim	4 Th	Maths	nitish	statics	Ye
chemistry semin		1144	Sardong SS	24-Mar-21	14:00	24-Mar-21	15:00	Sikkim	10th	Science	badal	atom	Υe
TRIGNOMETRY		1144	Sardong SS	25-Mar-21	13:00	27-Mar-21	15:00	Sikkim	10th	Maths	BISHAL	1.1	Ye
Science Seminar		1144	Sardong SS	23-Mar-21	14:12	23-Mar-21	15:13	Sikkim	10th	Science	Mr. Rahul	Newton's Law	Ye
Science Seminar	A seminar is to be conducte	1144	Sardong SS	16-Mar-21	17:00	16-Mar-21	18:00	Sikkim	10th	Science	Mr. Rahul	States of Matter	Υe
Science Seminar	A seminar is to be conducte	1144	Sardong SS	16-Mar-21	05:	16-Mar-21	06:	Sikkim	10th	Science	Mr. Rahul	States of Matter	Y€
Science Class	Science Class	1141	DIET Gyalshing Sikkim	15-Mar-21	15:55	15-Mar-21	15:56	Sikkim	10th	Science	Rahul Sir	States of Matter	Ye
							40.00		40.1				

Understanding the functionalities of the 'session History' page:

Search: Use the search option on the top right corner to search from the entire table.

Move columns: To move a column, drag and drop its column header in between columns.

Show hide columns: This option allows user to Hide/Un-hide the desired columns and rows. Use the eye icon on the left to show or hide columns.

Export to excel: This option allows the user to export the data in an excel format.

Start text wrap: Turn wrap text on to show the cell content if it overflows the column boundary.

Zoom: Use the zoom option to compress content on the table.

Reset column width: Reset the column width to a standard fixed width or return to your settings. This option is very useful in quickly viewing some columns on the right which are not visible in your preferred settings.

Full Screen: Click on the full screen icon to view the table on full screen, press escape to return to the default view.

7.3.1.3 Upcoming Sessions

Use 'Upcoming sessions' menu to view the upcoming sessions in the portal.

≡	ERNE
+	New Session
***	Sessions History
0	Upcoming Sessions
V	Recorded Sessions
	Shared Documents
+	New Asset
Ţ	Assets

upcoming s	Sessions					•
T Filters				March 2021		
Tag	Search text	• • Tuesday	0	Science Seminar	Science	View Participants
Presenter	Select -	16 Mar	Sardong SS	School	 10th Class Mr. Rahul 	
Туре	Select 👻	05:00 PM 06:00 PM			States of Matter	
Class	Select -					
Subject	Select 👻					
From	Date					
То	Date					
	🖕 OK 😂 Clear					

7.3.1.4 Recorded Sessions

Use 'Recorded Sessions' menu to view the recorded sessions in the portal.

≡	ERNE
+	New Session
	Sessions History
0	Upcoming Sessions
Ċ	Recorded Sessions
	Shared Documents
+	New Asset
₽	Assets

State user can see all the sessions which were scheduled by the DIET users and School users of his/her own state in sessions.

Recorded S	essions				Ť
▼ Filters			March 20	021	
Tag Presenter Type	Select	Friday 26 Mar	xyz School Sardong SS	 Science 6th A Class XYZ SOLUTION 	View Participants
Class Subject From	Select Select Date	Image: Provide with the second seco	TRIGNOMETRY School	 Maths 10th Class BISHAL 1.1 	View Participants
То	Date	• • Thursday 25 Mar	ABC School Sardong SS	 ❷ Maths ■ 4 Th Class ▲ nitish ■ statics 	View Participants

Project Portal.

7.3.1.5 Shared Documents

Use 'Shared Documents' menu to add folders and files in the portal that can be viewed by other users above you in the hierarchy. This feature increase accessibility of content by the user from different location and sharing of the content with the fellow users.

User Documents

Root : >

Follow these steps to upload a document on the portal:

Step 1: Click on 'New Folder' to create a folder.

Step 2: Enter the details here i.e. the name and description of the folder.

User Documents		_
Root : >	Folder Details	×
	Name [*] C Diet Folder	
	Description	
		I Done

Step 3: The user needs to click twice on added folder to add files under folder. e.g.: If you want to add files under C Diet Folder then you need to double click on that folder and can add files.

er Documer	ts			🗅 Add File	🗅 New Folde
oot : >					
		i <>			
	KSchool Folder	C Diet Folder	L School Folder	J School Documents	

Step 4: Click on Add file button to add files:

You can upload files up to 10 Mb in size.

Supported file formats are: .docx, .pdf, .xls, .xlsx, .csv, .jpg, .jpeg, .png, .gif.

User Documents		🗅 Add Eile 🗅 New Folder
Root : > C Diet Folder >		Û

Step 5: Browse, upload and click on done button after the file has been added.

er Documents	
File Details	×
Name* Doc	
File Choose File ALL Data.xls	
67 Dor	one
id Dor	one

This is how it's going to look once a new file has been added.

User Documents	🗅 Add File	C New Folder
Root : > C Diet Folder >		
Doc		

Step 6: You can go back by clicking on the directory path link, here 'Root'
User Documents

7.3.1.6 New Asset

Use 'New Asset' menu to add new assets and 'working' and 'not working' status of those assets in the portal.

- 🛱 New Session
- Bessions History
- Upcoming Sessions
- Recorded Sessions
- Shared Documents
- New Asset
- 🖵 Assets

Follow these steps to perform the 'New Asset' function:

Step 1:Enter all the required details as follows:

• Location type will be either Diet or school

Location Asset				
👪 Asset Detail				
Location Type*	DIET ~	Site Location*	Select 🗸 🗸	
Serial No*	Serial No	Asset Name*	Asset Name	
Working Status*	Working ~	Version	Version	
Make	Make	Model No	Model No	
Asset Description	Asset Description	OEM	OEM	

Step 2: Site Location will be available on the behalf of location type.

• When you select diet in location type:

Location Asset				(
👪 Asset Detail				
Location Type*	DIET ~	Site Location*	Select V	
Serial No*	Serial No	Asset Name*	Select DIET Gyalshing Sikkim DIET Goalpara Assam	
Working Status*	Working ~	Version	DIET BARPETA Assam	
Make	Make	Model No	Model No	
Asset Description	Asset Description	OEM	OEM	
	E Save			

• When you select School in location type:

Location Asset				•
Asset Detail				
Location Type	School ~	Site Location*	Select V	
Serial No*	Serial No	Asset Name	Select Bongten SS Sardong SS	
Asset Description	Asset Description	OEM	Langang SS Middle Geyzing SS Mangalbaria SSS	
Working Status*	Working ~	Version	KRIPASALYAN SSS DARAMDIN SAWALIGOAN SS ZOOMSS	
Brand	Brand	Model No	G.S.S.S. KAMLING Govt. Sr. Sec. School, khanisirbong	
	음 Save		LUNGCHOKSS G.S.S.S CHOTASAMDONG Gerethang Sr. Sec. School DHUBRI GIRLS' ACADEMY (HIGH) BIDYAPARA GIRLS HIGH SCHOOL BIDYAPARA BOYS' H.S SCHOOL	

After filling all the details, click on save button.

7.3.1.7 Assets

Use 'Assets' menu to view the 'working' and 'not working' status of assets in the portal.

≡	ERNE
+	New Session
	Sessions History
0	Upcoming Sessions
,	Recorded Sessions
	Shared Documents
+	New Asset
₽	Assets

After saving/adding new asset, user can view the 'working' and 'not working' asset status here in the 'Assets' menu.

Assets									Search		۹	+	New Asse	t
🥠 🖹 ≑	0 5 =	ର୍ 🎟 🛿	5		View	All	~		Select Cus	stom View	~	Ä	Custom Vie	ew
Serial No	Asset	Location Type	Ŧ	Conference Room	Status	I	Description			OEM	Model	No	Version	
12345	Speaker	DIET		DIET DHUBRI Assam	Working		2 way active waln	nou	nt speaker	ZEBRONICS	va 200			
Demo 1	Mouse	DIET		DIET Gyalshing Sikkim	Not workin	ıg				iball	891		567	
Demo	Keyboard	DIET		DIET Gyalshing Sikkim	Working					iball	345		123	

You can edit and make inactive assets from the action menu by clicking on the particular asset.

Assets				:=	Search	Q 1	New Asset
ø 🖈 🕏	ē ° 5	ର୍ 🎟 🛛 🍾	View	All ~	Select Custom View	~ /	Custom View
Serial No	Asset	Location Type Conference Room	Status	Description	OEM	Model No	Version
12345	Speaker	Select Action x	Working	2 way active walmo	unt speaker ZEBRONICS	va 200	
Demo 1	Mouse	Edit im	Not workin	ng	iball	891	567
Demo	Keyboard	Make Active	Working		iball	345	123

7.3.2 Understanding the Dashboard

The following dashboard represents the number of sessions conducted by each teacher and subject-wise & class-wise distribution of number of sessions conducted so far at a particular location.

7.3.2.1 Subject

Under the 'Subject' heading, the viewer can view horizontal bar graph representing the subject-wise distribution of number of sessions conducted so far at a particular location.

sing -0 ence -6 gish -0	afing -0 6 grah -0 6 0 5 10	Maths	-4		
ence 6 glish 0	ience	osting -0			
nglish —0	ginh —0 0 5 10	lence	-6		
Constraint Pression	0 5 10	nglish —0			
0 5 10		0	5	10	

7.3.2.2 Teacher

Under the 'Teacher' heading, the viewer can view a pie chart representing the number of sessions conducted by each teacher.

Teache	r
	 badal BISHAL Mr. Rahul Myoc Chow nitish Rahul Sir

Project Portal.

7.3.2.3 Class

Under the 'Class' heading, the viewer can view a vertical bar graph representing the class-wise distribution of sessions conducted so far.

	Class	
 10th		4 Th

7.3.2.3 Filters

The following filters located at the top of the dashboard allows the user to filter his/ her search according to their respective requirement.

Subject: This filter allows the user to narrow down his/her search according to the subjects.

From and to: These filters allows the user to narrow down his/her search according to the time at which the session was conducted.

Sessions: This tab shows the total number of sessions conducted after applying the filters.

					2	Welcom	e Sardong S	S Sikkim 👻
	Dashboard	Subject Search Subject	From Date	To Date		Sessions	10	C Refresh
\mathbf{O}								
0								

8.1 Before the Session

- Once you enter the Smart Virtual Calssroom clean all ICT hardware equipment gently, without disturbing cables.
- Check your mail ID using your User name and password to check sessions/ meetings scheduled for you.
- Go to the classroom and turn on the UPS, Desktop and all other equipments setup in classroom which you are going to use.
- Clean all sides of Interactive white board gently before setting calibration
- Calibrate the Interactive white board as explained in the manual.
- Ensure web cam camera is on.
- Ensure the internet connection is on and is not shared with others for high speed
- Get ready with your contents as per the given schedule.
- Timely log in to video conferencing session using your login credentials.
- Check the audio and video are working properly; do a trial/dry run.

8.2 During the Session

- During session listen to presenter silently.
- Ask questions where ever necessary.
- Share your contents when needed.
- 'TURN ON' your MIC only when it is your turn to speak.
- Maintain discipline in classroom.
- Teachers should arrange systematic question-answer session for students.

8.3 After the Session

- Remember to log out from video conferencing session.
- Properly shut down the Desktop.
- Turn off all the equipments setup in classroom.
- Lock the classroom for security purpose.

9.1 Dos

- 1. Keep your user name and password given to you, safe and secure.
- 2. Smart virtual classroom should be locked for security purpose.
- 3. Always keep the Mains power supply to UPS ON for charging of the batteries even if your classroom is closed.
- 4. Periodically check all port/cable connections, Battery installed in Remotes of all equipments and UPS batteries.
- 5. Ensure proper lighting in the room for better image quality.
- 6. In the Smart Virtual Classroom keep the Interactive white board dust free.
- 7. Always properly log out from the video conferencing software when session in over.
- 8. Keep your Mobiles on Silent mode in the Smart Virtual Classroom during session.
- 9. Always properly shut down your Desktop and other equipments after use.
- 10. Keep your Smart Virtual Classroom clean and dry for better performance of equipments.
- 11. Teachers should arrange systematic question answer session for students.
- 12. Focus on the classroom conversation and activities.
- 13. Before starting of the class session, stop sharing of the internet for better performance of the conferencing.
- 14. Always record important session for future reference.
- 15. Always avoid direct eye contact with the light coming from the projector.
- 16. Wiring in the Smart Virtual Classroom should be appropriate and hidden.
- 17. Always handle the equipments with care.
- 18. Very gently clean all sides of Interactive white board before using it.

9.2 Don'ts

- 1. Do not tell your password and user name to anyone.
- 2. Never leave your classroom un-locked when not in use.
- 3. Do not turn off the Mains power supply to the UPS as it might result in UPS providing poor backup when there is no mains power.
- 4. Do not allow lose connections in the equipments as it might cause problems during usage. Do not keep leaking batteries in Remotes as its discharging chemicals will damage the remote.
- 5. Do not set up a virtual class room in a dark place as it will lead to poor visibility
- 6. Do not expose your Interactive white board, LED Screen display and or other equipments to dust, direct sunlight or moisture as it might lead to electric shock and fire.
- 7. Do not leave your conferencing session logged in after the session is over.
- 8. Do not use mobile phones or other gadgets during the session as it will create disturbance.
- 9. Do not leave your equipments turned on when they are not in use.
- 10. Do not litter in your Smart Virtual Classroom as it might harm the hardware components of the classroom.
- 11. Do not avoid the question answer session of your classroom as it is very necessary for skill development.
- 12. Do not indulge in other activities while the session is going on.
- 13. Do not use other websites or pages while the session is going on as it will lead in poor internet connectivity.
- 14. Do not leave the classroom while some important session is going on.
- 15. Do not look directly at the light coming out from the projector as it may cause temporary blindness.
- 16. Do not pull the wiring or scratch the wiring of the Smart Virtual Classroom.
- 17. Do not throw or scratch or drill or drop the equipments.
- 18. Don't apply pressure while cleaning the Interactive white board surface as it can cause damage to the board.

9.3 Basic Troubleshooting

1. Not able to connect a call and showing the status as "Offline"?

- Check the LAN cable is properly connected.
- Internet modem is switched on.
- Check the status of the connectivity of LAN on the task bar at right lower corner of the screen. If shows crossed red mark then cable is unplugged, plug it.

• If the connections are properly done then the problems may be from internet provider side. In that case contact your internet provider.

2. Video is not displayed on the Screen?

• Please check the video source through remote of LED display screen. It may be due to wrong selection of Input. Select right input source.

• Your video settings may be incorrect.

• Your camera connector might be loose, please re-insert the connector and check again.

• Your video may be locked by administrator so contact the Helpdesk 1800 102 1182 or email at support.ernet@intecinfonet.com

3. Audio is not audible?

- Your speakers might be powered off, please switch "ON".
- Your audio settings may be incorrect.
- Your speaker connector might be loose, please recheck the connectivity.
- Your video may be locked by administrator so contact the Helpdesk 1800 113 233 or email at support.ernet@agmatel.com

4. Question: Video and Audio both are not working?

• Refer to the above given steps.

• If the issue is still not resolved please contact the help desk 1800 113 233 or email at support.ernet@agmatel.com

5. Not able to view the content on projector screen?

• Check the Projector input power. The cable should be properly connected and Green LED indicator should be in steady state.

- Check Projector settings.
- Check Projector's connectivity to CPU. It should be connected properly.

• If the issue is still unresolved then contact the 1800 113 233 or email at support. ernet@agmatel.com

6. Not able to operate the Interactive white board?

• Check for the red LED indicator on the left side bottom corner. Otherwise unplug the USB cable and plug it properly on the rear side of the CPU.

• When you move the pen or your finger you will observe the change in colour of the LED indicator. It will change from red colour to blue colour.

• Remove pen tray connection and connect Interactive white board USB cable direct to CPU. Then check Interactive white board is working or not, if it is working, problem can be in pen tray.

• If the issue is still unresolved then contact the Helpdesk 1800 113 233 or email at support.ernet@agmatel.com

7. Pen of Interactive white board is not pointing at the desired location on White Board?

• It may be problem of calibration, although calibration of Interactive white board is a one-time activity and needed only when position of Interactive white board is disturbed.

• If required you can adjust the calibration.

8. Entire system "shuts down" automatically?

• Check for input power supply to the UPS and make sure that power supply is ON.

• Check for the output power supply of the UPS and ensure that the UPS is ON.

• Check the duration of Main Power as 8 hours are required to charge the UPS batteries.

• If the issue is still unresolved then contact the Helpdesk 1800 113 233 or email at support.ernet@agmatel.com

9. No display on LED display screen?

- Please check if the LED display screen is powered "ON".
- Please select the "Input source" from remote as "HDMI".
- Check LED display screen connections.

• Even after above steps it is unresolved then contact the Helpdesk 1800 102 1182 or email at support.ernet@intecinfonet.com

10. Display on LED screen is erratic?

- Power off the LED display screen for 30 seconds then try operating again.
- Make sure the wall outlet is working well.
- Even after above steps it is unresolved then contact the Helpdesk 1800 102 1182 or email at support.ernet@intecinfonet.com

11. Remote Control Malfunction?

- Replace the remote control batteries.
- Clean the upper edge of remote control (transmission window)
- Check the battery terminals.

• Even after above steps problem remains unresolved then contact the Helpdesk 1800 113 233 or email at support.ernet@agmatel.com

12. TFT monitor is blank and power indicator light blinks continuously?

- On your computer check Power and Signal cable.
- Check whether TFT monitor is using its power management system
- Move the computer's mouse or press any key on the keyboard.
- Even after above steps problem remains unresolved then contact the Helpdesk
- 1800 113 233 or email at support.ernet@agmatel.com

13. Interactive white board pens are not working?

• Check for the pen tray connections, if they are loose tighten them.

- Check and clean pen tray sensors.
- Please check if the proper driver is installed.
- Check the Interactive white board is properly calibrated.

• If still not resolved then contact the Helpdesk.1800 113 233 or email at support. ernet@agmatel.com

14. Projector is ON but not working?

- Check whether the cable is connected to the source PC.
- Check in the Display property of PC that the display output is on Projector Port.
- In remote, check for the HDMI source is selected and if not, then select it.

• If still not resolved then contact theHelpdesk.1800 113 233 or email at support. ernet@agmatel.com

15. There is Variation in projection colour from Projector?

• Check the HDMI cable.

• If still not resolved then contact theHelpdesk.1800 113 233 or email at support. ernet@agmatel.com

16. LED Display screen video / Audio not working?

• Check cables are connected properly.

• Check whether audio is not muted from the controller (Endpoint Device / Desktop Application)

• If still not resolved then contact the Helpdesk 1800 102 1182 or email at support. ernet@intecinfonet.com

17. Not able to share the content during conference?

- Check connections.
- Check for the share button if it is OFF. Please turn it ON.

• If still not resolved then contact the Helpdesk 1800 102 1182 or email at support. ernet@intecinfonet.com

18. How can I correct the issue of working pen with variations?

• You can recalibrate the Interactive White Board settings.

19. If we cannot see some calibration points correctly and projection is out of Interactive white board display?

• The Projector is not adjusted properly and needs to be adjusted.

20. If interactive white board is working but pen is not working?

• Open the pen tray and check for the sensors, they may be dusted, need to be cleaned.

• If Pen tray sensors are disturbed/ damaged or burnt, then change the pen tray. Call Helpdesk 1800 113 233 or email at support.ernet@agmatel.com

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Signup

21. What if video conferencing software installed in my desktop is not working?

• You can download it from your project portal as explained in section 5.6.

22. If display of projector is reverted?

. Go to MENU button then select installation, there are two options one for front table top and second for ceiling. Select ceiling option and press 'OK' button.

22. How to download, setup and configure Video Confereing RPD Client at School

All the systems provided under SVC infrastructure comes with pre-installed RPD Client, however, in case the user wants to install it on a separate computing device not provided under the SVC infrastructure he/she can follow these steps:

Step 1: Follow this link to download the software: http://necsmartclass.svc.ernet.in

act Ernet india Home × + ← → C act necsmartclass.svc.ernet.in								- * *	5 ()	×
Support.emet@intecinfonet.com	D: +1800 102 1182						🗈 Login / S	ignup		Î
Korth Eastern Cour Government of Inc	II Digital India Power To Empower	Home About	Dashboard	Recorded Sessions	News/Session	Quick Links Gallery	Contact	t Us		
				Real Presence	Desktop Client	Downloads				
		>	_	Miscellaneous	ai	Knowledge Link				

👷 Ernet india | Home

After clicking on the RPD icon, the following dialog box will appear.

Step 4:Click on next.

Step 5: Select 'I accept the terms in the license agreement' and then click on next.

Step 6: Click on 'next' again.

🛃 Polycom	RealPresence Desktop - In	stallShield Wizard	ł	×
Destinati Click Nex	on Folder It to install to this folder.			
Ø	Install Polycom RealPresence C: Users Wilesh \AppData \Lou	e Desktop to: CallPolycom RealP	resence Desktop\	
InstallShield -		< Back	Next >	Cancel

Step 7: Install the software by clicking on install.

Polycom RealPresence Desktop - InstallShield Wizard	×
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back.	Click Cancel to
InstallShield	
< Back Install	Cancel

Step 8: Once the software is installed, click on the Finish tab.

InstallShield Wizard Completed
The InstallShield Wizard has successfully installed Polycom RealPresence Desktop, Click Finish to exit the wizard.
☑ Launch Polycom RealPresence Desktop
< Back Finish Cancel

Step 9: Configuration

For registered users they will select enterprise and for non-registered users they will select individual but this a 30 day free trial license for individual category.

	Polycom RealPresence Desktop
	Login
Open	
Open file location	
Add to archive	Enterprise Enter your email address, server address, and sign-in credentials. Your
Add to "Polycom RealPresence Desktop.rar"	systems administrator will configure many of the settings for you.
Compress and email	
Compress to "Polycom RealPresence Desktop.rar" and email	Individual
💱 Run as administrator	
S Share with Skype	
Troubleshoot compatibility	
Pin to Start	
Edit with Notepad + +	
Scan with Windows Defender	
Pin to taskbar	
Restore previous versions	
Send to >	
Cut	
Сору	
Create shortcut	
Delete	
Rename	
Properties	Enter

Step 10: You will need to enter the e-mail id in this step.

🕞 Polycom RealPresence Desktop		– 🗆 ×
	Enterprise Sign-In	
	Email: robin@svc.ernet.in	
	Cancel	

Step 11: User will need to provide the server name here. Server: videogk.svc.ernet.in

Polycom RealPresence Desktop				- 🗆 ×
	Enterprise Sign-In			
		Server: videogk.svc.ernet.in		
	Cancel		Next	
9.4 FAQs

1. How will one get information about my schedule session?

Ans: You will get information about your schedule session through email send by the Presenter/DIET or login through the portal.

2. What if I forget the password or user name or both given to me for portal?

Ans: You need to contact the Helpdesk 1800 102 1182 or email at support.ernet@ intecinfonet.com for resetting your username and password.

3. What if I miss a session or class?

Ans: You can download any session or class from 'library'

4. What if I am left with some unanswered question during a session?

Ans: You can wait for next class or you can go to the room of that participant directly to interact with him and ask your queries.

It is better to prepare your possible questions before your session. Or you can also go to the recorded session.

5. What if any equipment or hardware get damaged or stolen?

Ans: You need to report immediately to School authorities and the Helpdesk. Kindly refer to roles and responsibilities of School/DIET.

6. What is the central helpdesk number, how I shall contact them?

Ans: 1800 113 233 or 1800 102 1182 or email at support.ernet@agmatel.com or support.ernet@intecinfonet.com

9.5 Annexure

- CODEC Coder-Decoder
- RPD Realpresence Desktop Client
- RPRM Realpresence Resource manager
- VMR Virtual meeting room
- DMA Distributed Media Application
- UPS Uninterruptible Power Source
- HDMI High-Definition Multimedia Interface
- LAN Local Area Network
- WAN Wide Area Network
- MCU Multipoint Control Unit
- USB Universal Serial Bus
- HDCI High Definition Camera Interface
- TV Television
- CPU Central processing unit
- TFT Thin Film Transistor
- VGA Video Graphics Array
- DVI Digital Visual Interface
- LED Light-Emitting Diodes
- AC Alternating current
- KVA Kilovolt-Ampere
- CD Compact Disc
- DVD Digital Versatile Disc

9.6 Project Help Desk

For issues related to the following products, contact on the details given below:

- 1. CPU & TFT
- 2. Speaker
- 3. Electronic White Board
- 4. Projector
- 5. Collar Microphones
- 7. 8 Port unmanaged switch
- 8. Computer Table
- 9. Online UPS with batteries
- 10. Full HD Web Camera
- 11. Handheld Microphones



Bank Knowledge

For issues related to the following products, contact on the details given below:

- 1. Display Screen LED-40"
- 2. Video Conferencing Device
- 3. Software VC Application

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For Video Conferencing	
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Support.ernet@intecinfonet.com necsmartclass@eis.ernet.in	



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