# CLIx Newsletter

CONNECTED LEARNING INITIATIVE

*Winner of the 2017 UNESCO - King Hamad Bin Isa Al-Khalifa prize for* ***Use of ICTs in Education***

An initiative seeded by TATA TRUSTS

Led by TISS and Massachusetts Institute of Technology


## Voices from the Field


*David Lalremruata,*
*Field Resource Coordinator,*
*Mizoram*

### My CLIx Experience

Although there are some problems here and there, rollout has been going on regularly as usual in the schools. With the help of the FRC's (Field Resource Coordinator), teachers from different schools gained more knowledge about the modules and grew more confident about it, which resulted in having roll outs on different subjects on their own even when the FRC's were not present. Apart from the existing 30 schools, the new schools who attended the TPD Training also showed great interest in CLIx. They are eager to implement the CLIx project in their own schools and can't wait to receive the servers so that they can start implementing the project. Some schools even started some activities which can be done outside the lab. Activities such as, Rolling Ball from Motion (Science), Paper Cup from Sound (Science), Tangram from Shapes (Mathematics) were done by the newly selected schools.

Now that the Education Department has started to distribute the infrastructure, the existing 30 schools as well as the newly selected 70 schools are motivated by it. With the new infrastructure, there is more work to do regarding the lab maintenance and to set up labs where CLIx intervention has not happened. Having said that, it is a pleasure for the CLIx Team, Mizoram to do such things as it gives/brings motivation to all the schools. Though a lot of work is to be done, the team in Mizoram is more than enthusiastic to carry out the activities and looks forward to it. It is expected that the CLIx intervention will be better than the year before and a better outcome can be seen especially from the newly selected 70 schools.

Government of Mizoram

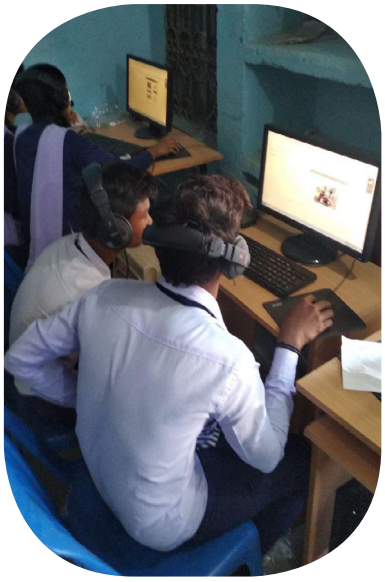
Current Status of MIZORAM

| SCHOOLS | TEACHERS | STUDENTS |
|---|---|---|
| 30 | 154 | 4400 |


*संजीव सिंह,*
*फील्ड इंटर्न,*
*क्लिक्स,*
*धमतरी*

### विद्यालय में कार्य करने की रणनीति

आमदी स्कूल में क्या करना है और क्या हो रहा है यह मुझे क्लिक्स के पुराने सदस्यों से पता चला। अकादमिक वर्ष 2018-19 में स्कूल स्तर पर क्लिक्स का कार्य प्रारंभ नहीं हुआ था। विद्यालय में जाने के बाद मुझे पता चला कि जो शिक्षक प्रशिक्षण में गए थे वह कक्षा 9 को इस वर्ष नहीं पढ़ा रहे हैं जिसके कारण से क्लिक्स की कक्षा विद्यालयों में संचालित नहीं हो पाई। मैंने इस विषय में प्रधानाचार्य से विचार विमर्श किया और कहा कि सर पिछले साल यहां इतना अच्छा काम हुआ है। हमारे विचार विमर्श में ये निकल कर आया कि शुरुआती कक्षाओं का संचालन नए शिक्षक जो इस अकादमिक वर्ष में कक्षा 9 को पढ़ा रहे हैं वह पुराने शिक्षकों के साथ मिलकर यदि क्लिक्स की कक्षाएं आयोजित कराएं तो या विद्यार्थियों के अधिगम प्रक्रिया में लाभकारी होगा। उसके बाद से उमाशंकर साहू सर जो कक्षा 9 को विज्ञान और अंग्रेजी पढ़ाते हैं वह विज्ञान और अंग्रेजी की क्लिक्स की कक्षाएं आयोजित कराते रहते हैं।



Current Status of CHHATTISGARH

| SCHOOLS | TEACHERS | STUDENTS |
|---|---|---|
| 47 | 139 | 4680 |

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*मोनिका जनगल ,*
*इंग्लिश टीचर ,*
*सरकार वरिष्ठ माध्यमिक विद्यालय,*
*तस्कोला*

## क्लिक्स: पढ़ने-पढ़ाने की नयी विधा

मैं राजकीय उच्च माध्यमिक विद्यालय, टसकोला में अंग्रेजी विषय की वरिष्ठ अध्यापिका हूँ। शिक्षक बनने के बाद मेरी पहली ट्रेनिंग क्लिक्स कार्यक्रम के अंतर्गत ही हुई है। ट्रेनिंग के दौरान काफी नया सीखने को मिला तथा अंग्रेजी के पढ़ने-पढ़ाने के नए तरीकों के बारे में जाना। हालांकि ट्रेनिंग कार्यक्रम 3 दिन का ही रखा गया, भविष्य में यदि प्रशिक्षण अवधि बढ़ती है तो आशा है और अधिक सीखने का मौका मिलेगा।

मैं क्लिक्स के साथ कुछ माह पूर्व से ही जुड़ी हूँ। अभी तक के मेरे अनुभवों में मैंने जाना कि क्लिक्स बहुत ही अच्छा प्रोग्राम है, जो छात्रों के साथ-साथ शिक्षकों के लिए भी उपयोगी है। सामान्यतः विद्यार्थी अंग्रेजी, गणित तथा विज्ञान विषयों में कमजोर होते है और क्लिक्स इन तीन विषयों को सरल तरीके से बच्चों को सीखाने का प्रयास करता है। क्लिक्स के माध्यम से बच्चों को कंप्यूटर पर पढ़ने और सीखने का अवसर प्राप्त हुआ है, जहाँ बच्चे आनंद लेकर इन विषयों को सीखते है।

सत्यमेव जयते
Government of Rajasthan

Current Status of
RAJASTHAN

| SCHOOLS | TEACHERS | STUDENT |
|---|---|---|
| 101 | 248 | 13,277 |

*Swamy Jadala,*
*Field Technologist,*
*Zilla Karimnagar District,*
*CLIx Telangana*

## Struggle with technology in schools is worth it for students

My typical day as a field technologist starts with calling up the Headmaster of the school and requesting him to get the computer lab cleaned.

When I reach the school, at times, it's not cleaned. It's like the "Swachh Bharath program". In the beginning, I used to clean the dirty labs all by myself but have now started taking help of the students. Over time I have transferred this responsibility of maintaining the computer lab to the students. They've realized their responsibility to keep the computer lab clean. On a day-to-day basis, dealing with these kinds of lab conditions at the government school computer labs can be challenging but I've made my work more fun and less frustrating by working with the students and teachers. I have trained them not only in troubleshooting and hardware issues but also to build their confidence to use the CLIx modules.

I feel that CLIx has given an opportunity to teachers in government schools to explore computers and blend it with their subject teaching. The students are now confident in using computers. The excitement of these students is the motivation not only for me but for all the team members in CLIx.

Current Status of
TELANGANA

| SCHOOLS | TEACHERS | STUDENTS |
|---|---|---|
| 300 | 1,853 | 10,080 |

## Blog of the month

### Extending ICT to the Unreached: A Spectacular Experience
(03.12.18- 04.12.18)

*Gomathi Jatin*,
Associate Professor, Centre for Education, Innovation and Action Research

The visit to four Telangana schools in which a few teachers were trained by CLIx team was an enthralling experience. The ICT know-how about and enthusiasm for CLIx modules among school headmasters, teachers and above all students was truly impressive. Students wanted to learn more through ICT modules and have access to additional educational applications.

CLIx teachers on the move

The Zilla Parishad High Schools at Thippaipally, Sultanpur, LMD Colony and Jaghiapally-

My team's visit to four CLIx schools in the interiors of Telangana on 3–4 December 2018 was overwhelming. I had varied experiences with the schools, each one of them worth sharing. The teachers in these schools, those trained and not trained by the CLIx team, showed keen interest and enthusiasm for implementing CLIx modules for teaching and learning. Students showed remarkable readiness and involvement in trying out these modules and learning with joy.

Smiles are magic: they motivate us

A teacher in one school had recently started work and had no CLIx training, but showed keen interest and had rolled out most of the available modules.

***Read more***

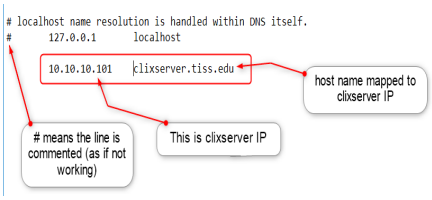
## Tech Assist

### Server-client connectivity: troubleshooting host file entry

In a Local Area Network (LAN) each computer has an unique IP and computers can talk to each other using their IP address. A name given to an IP is called a host name; and, mapping of IPs and hostnames are maintained in the host file.

During the CLIx session we follow the below steps to access modules,
Open the browser, Type URL https://clixserver.tiss.edu, Login, Add buddy and enjoy learning.

In the above, clixserver.tiss.edu is the host name. Therefore, in the school ICT lab, every client computer should have the host name clixserver.tiss.edu mapped to the server IP as shown below:




If mapping is not present then clients cannot connect to the server by typing clixserver.tiss.edu because the computer do not know whose name is it. Therefore, if you are not able to access modules by typing clixserver.tiss.edu in the browser, please check the host file entry.
Below is a link to know how can one check/edit host file in different operating systems:
https://www.howtogeek.com/howto/27350/beginner-geek-how-to-edit-your-hosts-file/

## Research

### Zone of proximal development in the era of connected computers

*Amit Dhakulkar, Rafikh Shaikh, Nagarjuna G*

The zone of proximal development (ZPD) could be a fruitful framework for understanding processes that enable learning in a collaborative environment. How can one create a platform with connected computers which would allow the learners to create a ZPD by design? We discuss design requirements for such a platform and we present two examples to substantiate our arguments.

***Read full Paper***

This section features recent studies in the field of education published by our CLIx team who work in tandem with the Centre for Education,Innovation and Action Research (CEIAR).

## Explore CLIx

**CLIx offerings:** https://demo-clix.tiss.edu/

**Post Graduate Certificate in Reflective Teaching with ICT:**
https://www.tissx.tiss.edu/

**Publications:**
https://clix.tiss.edu/research/publications/

**Releases:**
https://clix.tiss.edu/research/releasesmodules/

**Blogs**: https://clix.tiss.edu/news/

**CLIx in the Media:**
https://clix.tiss.edu/press-room/

# Module: Sound

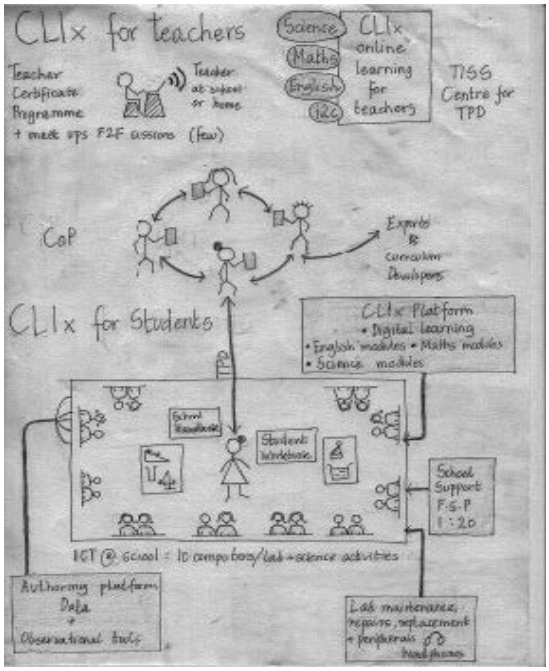
Sound- a phenomenon integrated into our lives, is explored in the module. Production and propagation of sound, and measurement of its loudness and shrillness is investigated through hands-on experience, videos and audio editing software.

**Duration-** 3 weeks/12 periods
**Grade-** 8-9
**Digital tools-** Audacity- Audio editing software
**Developed by-** Eklavya

Sound is vibration

Sounds Around us

## About CLIx




The Connected Learning Initiative (CLIx) is a technology enabled initiative at scale for high school students. The initiative was seeded by Tata Trusts, Mumbai and is led by Tata Institute of Social Sciences, Mumbai and Massachusetts Institute of Technology, Cambridge, MA USA. CLIx offers a scalable and sustainable model of open education, to meet the educational needs of students and teachers. The initiative has won UNESCO's prestigious 2017 King Hamad Bin Isa Al-Khalifa Prize, for the Use of Information and Communication Technology (ICT) in the field of Education.

CLIx incorporates thoughtful pedagogical design and leverages contemporary technology and online capabilities. Resources for students are in the areas of Mathematics, Sciences, Communicative English and Digital Literacy, designed to be interactive, foster collaboration and integrate values and 21st century skills. These are being offered to students of government secondary schools in Chhattisgarh, Mizoram, Rajasthan and Telangana in their regional languages and also released as Open Educational Resources (OERs).

Teacher Professional Development is available through professional communities of practice and the blended Post Graduate Certificate in Reflective Teaching with ICT. Through research and collaborations, CLIx seeks to nurture a vibrant ecosystem of partnerships and innovation to improve schooling for underserved communities.

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