A REPORT OF
CAL & Non CAL Schools
IN PURBA MEDINIPUR

সর্বশিক্ষা অভিযান

সবার শিক্ষা, সবার উন্নতি

Conducted by :

Research and Evaluation Intervention
Sarva Shiksha Mission
Purba Medinipur : : Tamluk

ACKNOWLEDGEMENT

INTRODUCTION

The Computer Aided Learning (CAL) program creates an environment, where learning and assessment is fun and the opportunities to learn is equitable among the rural and urban children. The CAL program is covering the classes VI to VIII to attract and retain children and also in the process, enhance the quality of learning by making "Learning Play", "Assessment Fun" and "Equal knowledge for all".

The main objective of the CAL programme is to attract the children, retain them in the schools and to improve the quality of the education through animated multimedia based educational content.

These programs will benefits students more than one ways, such as

- It will improve the IT literacy in the rural areas particularly and will go a long way in removing the digital divide in the state

- Improve the interest of students in school studies and thus increase school attendance and better performance in examinations
- It will improve the teaching process with the integration of the IT in the class

- Improve student and teacher learning and productivity

OBJECTIVES OF THE PRESENT STUDY

The present study sets the following objectives for itself

To examine the learning achievement between CAL and NON-CAL schools

METHODOLOGY

The project was carried out using the following tools, sample and statistical methods.

TOOLS USED :

A questionnaire containing various items with two response options was used as the tool for collecting data. The questionnaire was designed in such a manner so that it covers different angles of learning achievement.

SAMPLE

We have undertaken a sample survey technique where units (i.e. school) picked up randomly. 50 schools were selected as the sample for the study. Out of this 50 schools, 25 were CAL schools and rests were NON-CAL schools. In a school, the persons like Headmaster/Headmistress or the computer teachers are taken into consideration.

LOCALITY :

The study was conducted on 50 schools from the different blocks in Purba Medinipur.

DATA COLLECTION PROCEDURE :

At first, our investigators approached the individual [mainly Headmaster/Headmistress] and explain the purpose of the project. When the individual accepted to respond to the questionnaire, his/her answer was recorded in a master table.

Features of selected CAL and NON-CAL schools

We have selected 25 CAL and 25 NON-CAL schools under the Block of Purba Medinipur.

RESULTS

Direct effect on school for CAL Activity just earlier year of receiving Computer & Up to date of the visit 2009-2010

CAL Schools (out of 25 schools)

- Increase in average attendance of students : 20
- Increase in average attendance of teachers : 21
- Conception of the students for using the computer : 22
- No. of students said Classroom teaching were effective : 20
- No. of students said teachers' involvement in classroom process has increased : 21
- No. of students said teachers' motivation in teaching Process has increased : 21
- Effect on result has increased (within school between the student : 23

Attitudinal change for using the computer

- Students clear conception in subject : Yes 20, No 5
- Teachers interest in teaching has increased : 23
- Regularly has increased: 19
- Increase involvement of School M.C. members :Y6,N-19

Perception

- The Teachers use the computer as a TLM in class   : 14
- Students participation in class were attentive   : 22
- Benefitted by those educational CDs   : 8
- Quality of the Educational CDs   : Good-9, Bad-16
- The students' attention in class has increased   :22
- The students' interest in subject has increased   : 20
- The students' interest in regular attendance of school has increased   : 16
- No. of students said classroom transaction motivates him in subject   :17
- Educational CDs has increased interest of students towards their subjects   : 11
- Quality of the educational CDs   : Good - 13 Bad 12

- ❖ The Parents are aware of the activities introduced in school : 11
- ❖ According to Parents, the interest of their child's interest has increased for attending the school regularly   : 10
- ❖ According to Parents, there are positive effects in their child's result   :10
- ❖ Acc. to Parents, teachers' attendance has increased   : 11
- ❖ According to Parents, quality of the Educational CDs   : 9

According to M.C. Members

- Increase students enrolment in school   : 11
- Increase students attendance in school   : 12
- Increase involvement of the parents in school   : 9

- Increase attendance the Teachers' in school :   Y- 13 , N-12 Teacher used the computer in classroom teaching - 12
- Educational CDs used in the classroom :   Y-14 , N 11
- Committee monitored the programme :   Y-14 ,N 11
- Computer Aided Learning is effective in classroom Teaching-learning process, changing capacity in School environment   : 11

FOR NON-CAL SCHOOLS(out of 25 schools)

- Increase in average attendance of students   : 9
- Increase in average attendance of teachers   : 8
- Conception of the students for using the computer   : 11
- No. of students said Classroom teaching were effective   : 12
- No. of students said teachers' involvement in classroom process has increased   : 9
- No. of students said teachers' motivation in teaching Process has increased   : 11
- Effect on result has increased (within school between the student)   : 9

Attitudinal change for using the computer

- Students clear conception in subject : Yes 10 , No 15
- Teachers interest in teaching has increased : 11
- Parents conception for sending the child at school regularly has increased: 9
- Increase involvement of School M.C. members :Y-11 ,N-14

Perception

- The Teachers use the computer as a TLM in class : 08
- Students participation in class were attentive : 14
- Benefitted by those educational CDs : 08
- Quality of the Educational CDs : Good-08, Bad-17
- The students' attention in class has increased : 12
- The students' interest in subject has increased : 11
- The students' interest in regular attendance of school has increased : 13
- No. of students said classroom transaction motivates him in subject : 12
- Educational CDs has increased interest of students towards their subjects : 11
- Quality of the educational CDs : Good 9, Bad 16
- The Parents are aware of the activities introduced in school : 09
- According to Parents, the interest of their child's interest has increased for attending the school regularly : 11
- According to Parents, there are positive effects in their child's result : 9
- Acc. to Parents, teachers' attendance has increased : 11
- According to Parents, quality of the Educational CDs : 10

According to M.C. Members

- Increase students enrolment in school : 11
- Increase students attendance in school : 10
- Increase involvement of the parents in school : 09
- Increase attendance the Teachers' in school : Y- 11 , N- 14
- If the teacher used the computer in classroom teaching- 8
- If the Educational CDs used in the classroom : Y-7,N 18
- If the committee monitored the programme : Y- 11 ,N 14
- Computer Aided Learning is effective in classroom Teaching-learning process, changing capacity In School environment : 10

ANALYSIS AND INTERPRETATION

In this chapter we will analyze and interpret about the learning achievement among CAL and NON-CAL schools.

CAL Schools :

The result shows that introduction of computer has increased the attendance of students and teachers in the schools. Students get more clear conception while studying their subjects by using computer. Most of the students belong to CAL school opine that their classroom teaching is more effective after the inclusion of computer. Teachers are becoming more involved with the classroom process. Their motivation level has increased. Data revels that attitudinal changes are taking place for using computer. Most of the students get clear conception of the subjects. The awareness among the parents is increasing day by day. But involvement of the M.C members is far from satisfactory. Regarding the perception of students and teachers, positive impact of Computer Aided Learning has been observed. According to Managing Committee members, computer aided learning has not been able create so much interested among students as well as teachers.

NON CAL Schools :

Introduction of computer has not been able to increase the attendance of students and teachers in the schools to a great extent. Students can get more clear conception while studding their subjects if it is used in classroom regularly. Involvement of the teachers in the classroom is far from satisfactory. There is scope for increase in motivation level. Data revels that using of computer fails to improve the attitude to a great amount. The awareness among the parents are increasing but at a very slow pace. M.C members' involvement has increased. The perception of students and teachers for NON-CAL school has been observed as it is found in CAL school. Managing Committee members opine that computer aided learning has created interest among students as well as teachers but lot of scopes are there of improvement.

From the above analysis, we see that regarding learning achievement, CAL schools are comparatively in a better position than NON-CAL schools, although there is huge scope of improvement if we use the computer in proper way.Students' attendance increase more in case of CAL schools than NON-CAL schools. Besides this, in case of student's attention, better picture observed for CAL schools than NON-CAL schools. Both CAL schools and NON-CAL schools informed that that quality of the educational CDs should be improved.

CONCLUSION

Now we will summarize the objectives and findings of our study. The main objective of our study is to make a comparative study of learning achievement between CAL and Non-Cal school. We have seen in most of the CAL school, Computer Aided Learning has created a positive influence on enhancing achievement of learning in the schools. Nearly more than $2/3^{rd}$ of schools show that attendance of students and teachers have increased. Classroom teaching becoming more interesting and both student-teacher interaction are taking place. Introduction of computer has not been able to increase the attendance of students and teachers in the schools to a great extent for Non-Cal schools. Involvement of the teachers in the classroom for Non-Cal schools is far from satisfactory. There is scope for increase in motivation level in this category of schools. Data revels that attitudinal changes are taking place for using computer in the CAL schools where as it fails to improve the attitude to a great amount for Non-Cal schools. The awareness among the parents is increasing day by day for CAL schools but the same for Non-Cal schools is increasing at a very slow pace. Most of the students get clear conception of the subjects by using the computer aided learning. The M.C members' involvements are not up to the mark both for CAL and Non-Cal schools. The perception of students and teachers for Non-Cal school has been observed in both CAL and Non-Cal schools. Role of Managing Committee members/ Headmasters/Headmistress in bringing awareness among the teachers, parents and students regarding the Computer Aided Learning is far from satisfactory level. There is huge scope of improvement in these fields.

LIMITATION OF STUDY :

The study is based on only 50 schools in Purba Medinipur. Hence no generry.alized conclusion can be derived from this study.

Due to short span of time it has not been possible to complete the work satisfacto

SCOPE OF FUTURE STUDY :

Keeping in view some of the limitations of the study being outlines above we may suggest some of the lines of approach trough which future research can be carried for more comprehensive and elaborate study on learning achievement between CAL and NON-CAL schools. Lastly, in the context of increasing emphasis on computer aided learning throughout the country, the proper role computer in the field of school level education may be studied.

SUGGESTION AND RECOMMENDATION:

Some of the suggestions to eradicate the problem of computer aided learning in schools faced by the investigators and school staff:

\#   The government should provide more computer sets financial help to accomodaqte better.

\#   There should be concerted efforts of government for spreading the awareness among the parents about the importance of computer inteching and learning

\#   Immediate attention should be given to provide subject oriented CDs

\#   Efforts should be taken for training to existing teachers and other staffs and exchanging information and integrating knowledge by complementing the efforts of agencies dealing with computer aided learning.