

**Assessment of
Computer Aided Learning Program
in Andhra Pradesh**

Field reports from Chittoor and Nalgonda Districts

By

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EVALUATION OF CALP IN ANDHRA PRADESH

1. BACKGROUND

Computer Aided Learning Programme (CALP) envisages deployment of computers as a medium to impact learning competencies and to create an attractive environment in the school. The state government provides computers and the required hardware to schools while Azim Premji Foundation provides CDs designed to aid classroom learning process in specific areas such as mathematics, language and environmental sciences and training to the teachers.

The objectives behind setting up the Computer Aided Learning Centres (CALC) are to improve academic learning levels, attract out-of school children, provide child centric, joyful, interactive, self paced learning, and facilitate improvement of attendance.

In Andhra Pradesh there are 3 types of CALCs –

- **Out of school models** in W. Godavari district where the computers are housed in e-Seva Kendrams to which a few schools are attached with specific timings;
- **Byraju Foundation:** In-school model where the computers are located within the school, and
- **1000 School model** where the CALCs are situated in the high schools - the base schools - and the nearby primary schools (attached schools) make use of the facility for classes 3, 4, 5 children.

The following report is based on field visits made to a few selected CALCs in Chittoor and Nalgonda districts where the programmes was initiated under the 1,000 school model in 2002. In Nalgonda district APTECH has supplied, installed and commissioned computer hardware, software and other equipment where as in Chittoor district EVRON has taken up the same assignment.

2. OBJECTIVE

The main objective of the study was to document the processes in the schools identified as 'good CALCs' and determine factors that differentiate them from the other CALCs. This would provide inputs to replicate their good practices in other schools.

3. METHODOLOGY

The methodology involved visiting the 'good CALCs' and understanding their implementation of the CALP by meeting the stake-holders. This included interviews with the Head Teacher, teachers and YIF, group discussion among the teachers, talking to children and CALC session observations. To provide a comparative perspective a school not in the 'good CALC' list was also visited. The schools were visited in two phases between September 15 and September 30, 2005.

SAMPLE

According to the Technology Initiatives team there are 18 high performing schools and 16 low performing schools in four districts – West Godavari, Visakapatnam, Chittoor and Nalgonda – where CAL is on. Of these, three schools in Chittoor district and six from Nalgonda have been selected for study:

NALGONDA DISTRICT

4.1 School Name: ZPHS, Chityala

This school has strength of 732 students - 396 boys and 336 girls. CAL Programme was launched in the school in 2004 under the 1000 school project. APTECH has supplied, installed and commissioned Computer Hardware, Software and other equipments and also maintain the system. There are 10 computers and one server, all in working condition, to take care of the needs of the students of this school and those of the children of the primary school attached to this CALC. Two APTECH instructors are posted at the Centre to maintain the computers.

Of the 12 rooms in the school one room been provided for CALC. It is well kept and large to accommodate both the computers and the children. There is no power supply problem. UPS can provide supply for 45 minutes but breakdowns are very rare.

Children of classes from 6 to 10 of the ZPHS and classes of 3, 4 and 5 of the primary school are served by this CALC. The primary school is within the premises of ZPHS and as such the children do not have to walk any distance to reach the CALC. A teacher accompanies the children or leaves them at the centre and goes back to the Primary school.

All the 17 teachers of the ZPHS have been given training by the APTECH instructors on Word, Excel, and PowerPoint. But, according to the headmaster and instructors, only 3 teachers are confident of using the skills acquired. But no training was provided on use of APF CDs either to these teachers or to the teachers of the primary school linked to this CALC.

Integration and facilitation support

- Separate time tables have been prepared - 1st period from Monday to Thursday for primary school children; rest of the periods are for ZPHS school children.
- There are 21 CDs available in the lab. CDs are not copied into the systems. As and when the children come to the class the CDs are shown by the instructor.
- Though there are chairs at the centre children prefer to stand and operate the computers.
- The guideline provided for the integration is not seriously followed.
- The primary school teachers do not have the basic knowledge of computers
- Except for the one or two (Chilakapalkulu) the primary school teachers have not seen any of the CDs; so there is no role in the integration of CDs in the classroom curriculum.
- The head teacher is supportive of the programme.

Actual implementation

- During 2004-05, the children were not taken to the CALC. Children said they viewed CDs last year. Two to three children used to work in a group on a computer at a time. Very few children have acquired basic computer skills.
- Children enjoy using the computer but none of them could tell the CD concepts.
- The teachers said that the CDs are useful for Maths.
- There is no system in place for monitoring the CAL programme.
- There was adequate support from the authorities, claimed the teachers.

Records

Registers on the number of children using the computers every day and teachers viewing CDs were maintained last year. The instructor could not show the records being maintained now.

School Summary

CALC functioned well in 2004 but because of pressure of CLIP neglect set in. This came out during the discussions with the teachers in the presence of MRP and BEO.

This researcher talked to class 5 students at the Centre. They said it was their first visit this year. They had no idea about the CD concepts but remembered watching "Chilakapalkulu" last year. Interaction with class 6 students too revealed that they had not seen any CD this year.

A class 3 teacher said there was no coordination between the APTECH instructors and the teachers. The instructors talked rudely with the teachers and did not allow the children to operate the computers. Only 3 to 4 systems were given to the children resulting in 10 to 12 students using one computer. The instructors did not provide any solution to their problems. They kept the CDs with them and did not oblige the teachers.

Because of all these problems, this year, the primary school teachers were not motivated to send the children to the CALC.

There is no community involvement in the programme.

The teachers are not trained on APF CDs. If there is any problem while viewing the CD, the instructor does not respond and will not help them solve the problem. CDs are kept with the APTECH instructors and some times they do not even oblige to give the CDs. According to the statement made by the teacher the CDs should be given to the Primary school. Because of all these problems, this year, the primary school teachers are not motivated to send the children to the Computer lab.

There is no community involvement in the programme.

4.2 School Name: ZPHS, Haliya

This school has strength of 890 students - 517 boys and 373 girls. CAL Programme was launched in the school in 2004 under the 1000 school project. APTECH has supplied, installed and commissioned Computer Hardware, Software and other equipments and also maintain the system. There are 10 computers and one server, all in working condition, to take care of the needs of the students of this school and those of the children of the three primary schools attached to this CALC. Two APTECH instructors are posted at the Centre to maintain the computers.

Of the 10 rooms in the school one room been provided for CALC. It is well kept and large to accommodate both the computers and the children. There is no power supply problem. UPS can provide supply for 45 minutes but breakdowns are very rare.

Children of classes from 6 to 10 of the ZPHS and classes of 3, 4 and 5 of the primary school are served by this CALC. The primary schools are located ½ to 1 km from the ZPHS and either the subject teacher or the class teacher accompanies the children to the CALC.

All the 20 teachers of the ZPHS have been given training by the APTECH instructors on Word, Excel, and PowerPoint. But no information is available on the number of teachers confident of using the skills acquired. Since the teachers were busy with the examinations they could not be interviewed. But no training was provided on use of APF CDs to these teachers. But MRP has trained teachers of one primary school linked to this CALC on the use of CDs.

Integration and facilitation support

- Separate time tables have been prepared - 1st period from Monday to Thursday for primary school children; rest of the periods are for ZPHS school children. Each school gets two days in a month.
- There are 26 CDs available in the lab. CDs are not copied to the systems. As and when the children come to the class the CDs are shown by the instructor.
- Though there are chairs at the centre children prefer to stand and operate the computers as the tables are higher.
- The guidelines provided for the integration are not found in either of the schools. The instructors say it is with the school but the denies this. They have not even seen the guidelines.
- Two primary school teachers have the basic knowledge of computers.
- Teachers of one of the three primary schools have been trained on use APF CDs.
- Except for one (Chilakapalkulu) the primary school teachers have not seen any of the CDs fully; they view the CDs only when they visit the CALC with the children. They have no other free time to view the CDs. So there is no role in the integration of CDs in the curriculum.

Actual implementation

- Of the three primary schools attached children of only one school visit the CALC regularly.
- The instructor spares only one system for the primary school children to view the CDs.
- According to the instructors and the teachers PS children have not acquired basic computer skills; nor could this be observed as there was no power throughout the day.
- Children enjoy using the computer; teachers found the maths CDs useful (Brainstorm, Chaturchar).
- There is no system in place for monitoring the CAL programme.
- There was adequate support from the authorities when needed, claimed the teachers.

Records

Registers on the number of children using the computers every day and teachers viewing CDs are being maintained and are updated.

School Summary

The three attached primary schools were visited.

Of the three, one school is in the SC colony, the other is an Urdu medium school and the third is the Central Primary School, Haliya.

According to the teachers and the instructors, SC colony primary school children are not visiting the CALC because of the distance; In fact, they have not made a single visit. Further enquiries revealed that caste / communal issues were involved. During the visit to the SC colony school, the Headmaster and another teacher were away; only one teacher was available.

The Urdu medium school has only one teacher and she cannot leave the school to visit CALC. Last year she did the children to the CALC but the CDs were not in Urdu. So she feels it is not useful to the children and this year she has not taken children to the CALC.

The only school that is regularly visiting the CALC is the CPS.

But on the day of this researcher's visit there was total power breakdown because of a fault in the transformer but the school was not informed. The children visited the CALC as per the timetable but had to return without watching the CDs.

The CDs are kept in the primary schools. The teacher brings the CD with her. There is no attempt made for the integration of the CDs in the class room. The teachers and the headmaster are unaware of the guidelines and none of them have seen the guidelines. Only two teachers know about the CDs; teachers complained that they are not allowed to watch the CDs in the school. Because of lack of time and availability of the computer they have not been able to view all the CDs.

The APTECH instructor permits only one computer to be used (complaint made by the head master and the teachers of CPS). The instructor, present during the discussions with the teacher, explained that class 6 students while copying the files deleted the CDs from the computer. Since then she was allowing the children to use only one computer. All the children sit and watch while one or two operate the CD.

There is no community involvement.

4.3 School Name: ZPHS, Narketpalli

This school has strength of 601 students - 339 boys and 262 girls. CAL Programme was launched in the school in 2004 under the 1000 school project. APTECH has supplied, installed and commissioned Computer Hardware, Software and other equipments and also maintain the system. There are 10 computers and one server, all in working condition, to take care of the needs of the students of this school and those of the children of the two primary schools attached to this CALC. Two APTECH instructors are posted at the Centre to maintain the computers.

Of the 11 rooms in the school one room been provided for CALC. It is well kept and large to accommodate both the computers and the children. There is no power supply problem. UPS can provide supply for 45 minutes but breakdowns are very rare.

Children of classes from 6 to 10 of the ZPHS and classes of 3, 4 and 5 of the primary school are served by this CALC. The primary schools are located ½ to 1 km from the ZPHS and either the subject teacher or the class teacher accompanies the children to the CALC.

All the 19 teachers of the ZPHS have been given training by the APTECH instructors on Word, Excel, and PowerPoint. But according to the HM only five teachers are confident of using the skills acquired. Three teachers from one of the attached primary schools attached are trained on the use of APF CDs.

Integration and facilitation support

- Separate time tables have been prepared – between 2.30 pm and 3.30 pm on Thursdays and from 11.30 to 12.30 on other week days for primary school children; rest of the periods are for ZPHS school children.
- There are 21 CDs available (16 in the lab and the rest in the school). CDs are copied to the systems.
- Though there are chairs at the centre children prefer to stand and operate the computers.
- The guidelines provided for the integration are followed.
- Primary school teachers of only one attached school have the basic knowledge of computers.
- Except for one or two CDs (Chilakapalkulu) the primary school teachers have not seen the CDs; they view the CDs only when the instructor plays them and if they are at the CALC.
- There is no role of teachers in the integration of CDs in the curriculum.
- The head teacher is supportive of the programme.

Actual implementation

- Of the two primary schools attached children of only one school visit the CALC regularly; two to three children operate the computer at a time.
- Children have acquired basic computer skills;
- Children enjoy using the computer; teachers found the maths CDs useful
- There was adequate support from the authorities when needed, claimed the teachers.

Records

Records on number of children using the computers every day and teachers using and viewing CDs, visitors' book are being maintained and updated.

School Summary

Of the 2 primary schools attached children from only one school visit the CALC. The other primary school availed of the facility last year but has kept away because of the hurdles in reaching the school – of crossing the crowded highway. There was once a near accident. Only one teacher to take care of the 103 students.

There is no community involvement in CAL.

Overall, the CAL concept is broadly understood by the attached primary school teachers. The children are happy and enjoy the CDs. The children want CDs on algebra, profit and loss, games, good manners, Madam Curie, Australia, environment, and stories in Telugu. The teachers are, however, not involved in the process at all.

4.4 School Name: CPS, Atmakur

This school has strength of 264 students - 139 boys and 125 girls.

The CAL Programme was launched in the school in 2004. There is only one computer which is located in the MRC office which is in the school premises. The room is small and can accommodate only 8-10 students. There are not enough chairs and so the children stand and view the CDs.

All the 6 rooms in the school are being used as class rooms; three of them are being demolished as they are 40 years old, in bad shape with the roof leaking. Power supply is irregular – supply lasts 3 to 4 hours on an average. Though there is a UPS teachers do not know how long it can provide power. So if there is a power cut the children do not visit the CALC at all. Also, if the MEO is in the office children are barred from viewing the CDs as it would disturb his work.

Integration and facilitation support

- Teachers are not trained and they do not have an idea of how to open the CDs. There are 22 CDs in the school of which they can open only 6 CDs. They show the 6 CDs to the children at random with no specific plan of integration. They are not even aware of integration, preparation of time table, etc. No guidelines have been provided to the school.
- Teachers have not seen all the CDs. There is no role of teachers in the integration of CDs in the classroom curriculum as they are not trained.
- The head teacher is supportive of the programme.

Actual implementation

The teachers are not aware of the CAL concept. CALP is not happening.

Records

No records are maintained.

School Summary

According to the teachers, the MRP just dumped the 22 CDs in the school and told them to use them. As they were not trained they did not know what to do with them; one teacher who has some computer knowledge sought the help of his friends and could open only 6 CDs.

Just to check, I asked them to show some non-working CDs. When I tried, almost all the CDs were opening. Actually, the teachers did not know the technology. I explained and showed them the technique - to open the CDs and copy to the system and open.

The young teachers are motivated but not trained.

There is no community involvement in the CAL programme.

4.5 School Name: ZPHS, Ramannapet

This Urdu medium school has strength of 373 students - 9 boys and 364 girls. CAL Programme was launched in the school in 2004 under the 1000 school project. APTECH has supplied, installed and commissioned Computer Hardware, Software and other equipments and also maintain the system. There are 10 computers and one server, all in working condition, to take care of the needs of the students of this school and those of the children of three primary schools that had been attached to this CALC last year. Two APTECH instructors are posted at the Centre to maintain the computers.

The CALC is not functioning now (2005) and the three primary schools have been shifted to another school.

Of the 6 rooms in the school one room been provided for CALC. It is well kept and large to accommodate both the computers and the children. There is no power supply problem. UPS can provide supply for 45 minutes but breakdowns are very rare.

There are 10 computers and one server. Children of classes from 6 to 10 of the ZPHS are now served by this CALC.

All the 12 teachers of the ZPHS have been given training by the APTECH instructors on Word, Excel, and PowerPoint.

Integration and facilitation support

CAL is not functioning in 2005.

Records

Records on number of ZPHS children using the computers and the topics taught are being maintained.

School Summary

The in-charge Headmaster, Ms. Annama, was not aware of CAL.

According to the two instructors of APTECH BC Colony Primary School, Girls Primary School, and Girls Upper Primary school had been attached last year. BC colony is 1 km from the school. GPS and UPS are less than ½ km. The schools were not bringing the children to the school. As per the instructor there are no CDs in the ZPHS School. The primary schools have the CDs.

When the near by Girls Primary School was visited, only one teacher was available for interview. According to the teacher the school is now attached to the CPS where there was only one system. So far they had not taken the children to the CPS.

There is no monitoring system in place. In brief CALP is not functioning in Ramannapet.

There is no community involvement

4.6 School Name: ZPHS, Vallikonda

This school has strength of 798 students - 400 boys and 398 girls. CAL Programme was launched in the school in 2004 under the 1000 school project. APTECH has supplied, installed and commissioned Computer Hardware, Software and other equipments and also maintain the system. There are 10 computers and one server, all in working condition. Three primary schools were attached to this CALC. they are ½ to 1 km away from this school. Two APTECH instructors are posted at the Centre to maintain the computers.

Of the 8 rooms in the school one room been provided for CALC. It is well kept and large to accommodate both the computers and the children. There is no power supply problem. UPS can provide supply for 45 minutes but breakdowns are very rare. APTECH maintains the system.

Children of classes from 6 to 10 of the ZPHS have been provided computer exposure so far. In 2005 CAL was not functioning. Both the instructors were absent on the day of visit.

All the 18 teachers of the ZPHS have been given training by the APTECH instructors. But no training was provided on use of APF CDs.

Integration and facilitation support

CAL is not functioning

Records

Teachers could not show records. They were not aware of any record.

School Summary

On the day of visit, Head master K Lakshma Reddy was not present. Quarterly examinations were on and the teachers were busy with invigilation. Three teachers who were available for a chat UPS Mallapalli, UPS Valigonda and BC colony primary school had been attached but none had come this year for CAL. Two schools came last year.

Community is not involved.

CHITTOOR DISTRICT

4.7 School Name: ZPHS, Siddampalli

This school has strength of 340 students - 183 boys and 157 girls. CAL Programme was launched in the school in 2004 under the 1000 school project. EVRON is maintaining the system and two of its instructors are posted here. There are 9 computers and one system is allotted to server network. All the computers are in working condition to take care of the needs of the students of this school and those of the children of the four primary schools attached to this CALC.

Of the 7 rooms in the school one room been provided for CALC. It is well kept and large to accommodate the computers. There is no power supply problem. UPS can provide supply for an hour for four systems but breakdowns are very rare.

Children of classes from 3 to 10 of the ZPHS and classes of 3, 4 and 5 of the primary schools are served by this CALC. The primary schools are situated 1/2 km to 1 km away. A teacher accompanies the children.

All the 7 teachers of the ZPHS have been given training by the EVRON instructors on Word, Excel, and PowerPoint. But, as admitted by themselves none of the teachers is confident of using the skills acquired. No training was provided on use of APF CDs either to these teachers or to the teachers of the primary school linked to this CALC.

Integration and facilitation support

- Separate time tables have been prepared – every day computer classes are held between 9.30 am and 11.30 am and periods are allotted to each school as per the time table. Each school gets a chance twice a month.
- There are 18 CDs available in the lab.
- Though there are chairs at the centre children prefer to stand and operate the computers.
- Though the teachers are not integrating the CDs with the classroom curriculum there is an inbuilt system of integration. The guideline have been provided and a plan is made at the beginning of the year on what CDs should be viewed by the children – classwise and subject wise. Accordingly the instructor executes the plan.
- The primary school teachers do not have the basic knowledge of computers; nor have they seen the CDs relating to their subjects.
- The community is not involved in the programme.

Actual implementation

- Children are allowed to use the computers themselves (without teacher facilitation). At a time 5-6 children work in one group on a computer. The other children wait either watching or doing some other work.
- Very few children have acquired basic computer knowledge (switching the computer on/off, using the mouse, going to the folder of CDs, etc). They all enjoy using the computer and are learning from the programme.
- The children said that the Maths CDs are useful while the teachers found the English CDs also useful.
- DEO and other officials visit the centre regularly.
- There is no system in place for monitoring the CAL programme.
- There was adequate support from the authorities, when needed.

Records

Records are being maintained.

School Summary

The previous headmaster who has retired was proactive and took a personal interest in CAL. The school had not been selected under the 1000 school project but when the nearby Kalepalli school that had been selected declined it for security reason the HM made efforts and got it sanctioned to this school. The present headmistress also takes interest in the CAL programme.

Time table for the computer system is prepared by the government and there is class-wise, subject-wise CD viewing plan for all the children. As per the plan the

On the day of our visit 5th class children were viewing the CD on profit and loss, a topic not covered in the class. Teachers of attached primary schools are not trained and hence have no idea on curriculum integration.

4.8 School Name: ZPHS, Vanamaladinne, Punganur Mandal

This school has strength of 397 students - 209 boys and 188 girls. CAL Programme was launched in the school in 2004 under the 1000 school project. EVRON is maintaining the system and two of its instructors are posted here. There are 9 computers and one system is allotted to server network. All the computers are in working condition to take care of the needs of the students of this school and those of the children of the 6 primary schools attached to this CALC. Four speakers need repairs.

Of the 5 rooms in the school one room been provided for CALC. It is well kept and large to accommodate the computers. There is no power supply problem. UPS can provide supply for 45 minutes for four systems but breakdowns are very rare.

Children of classes from 3 to 10 of the ZPHS and classes of 3, 4 and 5 of the primary schools are served by this CALC. The farthest primary school is 1/2 km away. A teacher accompanies the children.

All the 7 teachers of the ZPHS have been given training by the EVRON instructors on Word, Excel, and PowerPoint. But none of the teachers is confident of using the skills acquired. No training was provided on use of APF CDs.

Integration and facilitation support

- A biology teacher from the ZPHS helps in maintaining the computers.
- Separate time tables have been prepared – every day computer classes are held between 10 am and 11.45 am and periods are allotted to each school as per the time table. Each school gets a chance twice a month.
- There are 23 CDs available in the lab and all of them have been copied into the system, according to the instructors. All the CDs are working well.
- Though there are chairs at the centre children prefer to stand and operate the computers.
- Though the teachers are not integrating the CDs with the classroom curriculum there is an inbuilt system of integration. The guideline have been provided and a plan is made at the beginning of the year on what CDs should be viewed by the children – classwise and subject wise. Accordingly the instructor executes the plan.
- The primary school teachers do not have the basic knowledge of computers; nor have they seen the CDs relating to their subjects.
- The community is not involved in the programme.

Actual implementation

- Children are allowed to use the computers themselves. At a time 4-8 children work in one group on a computer. The other children wait either watching or doing some other work.
- Many children have acquired basic computer knowledge. They all enjoy using the computer and are learning from the programme.
- The children said that the Maths CDs are useful while the teachers found the science CDs also useful.
- MRP and other officials visit the centre regularly.
- There is no system in place for monitoring the CAL programme.
- There was adequate support from the authorities, when needed.

Records

Records are being maintained and updated.

School Summary

According to the primary school teachers the children are enjoying the CDs and are learning better than in the class. For example, the primary school teacher said, the place value are better understood through CD by the children. Similarly many of the concepts in mathematics that are difficult to explain are easily understood by the children here.

In the afternoon in the group discussions with the teachers and the headmaster, it emerged clearly that the CDs are very useful.

There is no sustainability plan in the school.

CAL is functioning satisfactorily

4.9 School Name: ZPHS, Puthalapattu, Chittoor district

This school has strength of 858 students - 463 boys and 395 girls. CAL Programme was launched in the school in 2004 under the 1000 school project. EVRON has provided training to the 18 teachers for 30 minutes each for 30 days. There are 9 computers and system is allotted to server network. All computers are in working condition to take care of the needs of the students of this school and those of the children of the three primary schools attached to this CALC. Two EVRON instructors are posted at the Centre to maintain the computers. A maths teacher helps them.

Of the 8 rooms in the school one room been provided for CALC. It is well kept and large to accommodate both the computers and the children. There is no power supply problem. UPS can provide supply for 45 minutes but breakdowns are very rare.

Children of classes from 6 to 10 of the ZPHS and classes of 3, 4 and 5 of the primary school are served by this CALC. The farthest primary school is situated $\frac{1}{2}$ km from the ZPHS and as such the children do not have to walk any distance to reach the CALC. A teacher accompanies the children to the centre.

All the 18 teachers of the ZPHS were given training by the EVRON APTECH instructors on Word, Excel, and PowerPoint for 30 minutes daily for 30 days. But none of them are confident of using the skills acquired. But no training was provided on use of APF CDs.

Integration and felicitation support

- Time table is prepared for the use of computers by different classes and attached schools and it is followed. Every day periods are allowed from 9 a.m. to 11-30 a.m. and each school will get a chance twice a month.
- 23 CDs available in the computer lab as per the instructor; all of them have been copied into the system and all the CDs are working well.
- None of the primary school teachers has the basic computer knowledge; they have not viewed their subject CDs.
- Though the teachers are not integrating the CDs into the classroom curriculum there is an inbuilt system of integration in this school. The guidelines are prepared and a plan is made in the beginning of the year on what CDs and what topics should be viewed by the children – class-wise, subject-wise and CD-wise. Accordingly the instructor executes the plan.
- Community is not involved in the CAL programme.

Actual implementation

- Children are allowed to use the computers themselves; at a time 5 to 6 children in a group work on a computer at a time.
- Many children have acquired basic computer knowledge. Children enjoy using the computer and are learning from the programme.
- Children say the Maths CDs are very useful.
- Teachers found the Maths, English and Science CDs useful.
- MRP and other officials visit the centre regularly.
- Adequate support is available from the authorities when needed.

Records

Registers and records are maintained and updated.

School Summary

The Headmistress is proactive and takes interest in the CAL programme. She was not happy with an EVRON instructor and got him replaced by a lady instructor.

There is no coordination between the EVRON instructors and the school teacher. Training programmes were conducted during the vacation for 8 members @ Rs 300-500 per person. But no records are available.

5 Overall Conclusions

Nalgonda district

- CAL is part of the 1,000 school project initiated by the AP government in 2002. APTECH has supplied, installed and commissioned computer hardware, software and other equipments and to provide computer education as per the government syllabus. Each school has two APTECH instructors to teach the children. There are 10+1 systems in the computer lab which is situated within the school premises. Of the 6 CAL schools visited five are ZPHS and one Central Primary School.
- The number of primary schools attached to ZPHS schools varies from one to three.
- Teachers of only two attached primary schools, Narketpalli and Haliya, are trained on APF CDs. These are the only two primary schools that are sending the children for CAL. These children can relate to the CD content and want more CDs on various subjects.
- None of the teachers have seen all the CDs or at least the CDs relevant to their subject.
- There is no systematic integration of CDs to the classroom curriculum.
- There is no coordination and cooperation between the primary school teachers and the APTECH instructors.
- APTECH instructors are not allowing the children to use all the systems.

Chittoor District

- Some of the typical issues raised in CAL programmes elsewhere - like timetable preparation, periods to be allotted, how to integrate etc. - does not exist in Chittoor where it has already been standardized and systematized in all the schools visited.
- There is good convergence/liaison between the CAL and the educational functionaries.
- The concept of integration has not percolated down up to the primary teacher's level. They are not trained on CAL and as such are not aware of the integration aspect of CAL. They are mechanically accompanying the children to the Computer Labs to view the CDs. There is no emotional involvement of the teachers in the programmes.
- Withdrawal strategy/sustainability strategy have not been worked out by the schools.
- No revenue generation activities taken up by the schools.
- EVRON instructors have conducted training on off-school days but no records are maintained.

Suggestions that emerged during the discussions with the teachers:

- CDs need to be changed every year.
- There should be more CDs.
- They do not want the combined CDs.
- Syllabus-wise CDs should be provided.
- English CDs should be made available.
- Subject teacher concerned should accompany the children to explain the concepts.

Children's suggestions:

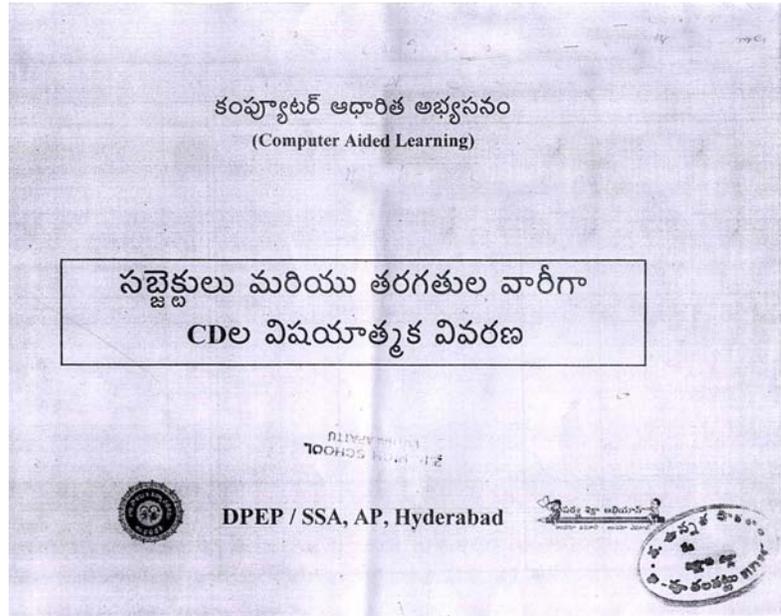
More CDs on Algebra, Maths, Science, Games, Good manners, Environment, etc are needed

ANNEXURE

List of schools attached to the ZPHS Schools in Chittoor

<i>Sl No.</i>	<i>Schools Attached</i>	<i>Classes covered</i>	<i>Strength class 3-5</i>
1	ZPHS-PUTHALAPATTU		
1	<i>Puthalapattu</i>	3,4,5	136
2	<i>Vaizireddy palli</i>	3,4,5	93
3	<i>Samanatham</i>	3,4,5	14
2	ZPHS-CHITTOOR (RURAL)-Siddampalli		
1	<i>Kannikapuram (PS)</i>	3,4,5	58
2	<i>Perumalkandiga (PS)</i>	3,4,5	58
3	<i>LB Puram, Bandapalli (PS)</i>	3,4,5	56
4	<i>Siddampalli (PS)</i>	3,4,5	47
3	ZPHS-PUNGANUR(m)-Vanamaladinne		
1	<i>Vanamaladinne (PS)</i>	3,4,5	56
2	<i>Basivinayanipalle (PS),</i>	3,4,5	41
3	<i>Kondam Doddi</i>	3,4,5	25
4	<i>MekanaJamana palle,</i>	3,4,5	12
5	<i>Appiganipalle</i>	3,4,5	5
6	<i>Eduru</i>	3,4,5	44

Guidelines & Time table – specimen copy



Title: 9. Brain Storm		Subject: గణితం		Classes: III, IV		D Title: 9. E		
Content Index	Objectives	Classes	Contents that can be Mapped			Remarks	Content Index	
			Unit(s) Name	Lesson (S)	Topics covered in CD			Month
దాగుడు మూతలు	యత్నంతోపి సిద్ధాంతం తో కార్డుల (మూస ఉన్న) ను తీస్తూ కూడికలు చేస్తారు	III & IV			3, 4 తరగతులకు సంబంధించిన కూడిక, భాగాహారాలు, చిన్న సంఖ్యలను గుర్తించటం లాంటివి ఆటల రూపంలోగలవు	ఉపాధ్యాయుడు సూచనలన్నింటినీ గమనించి విద్యార్థులు ఇంకా సృజనాత్మక సమస్యలను పొందించడంలో దోహదపడవలయును	అం వై పె	
రంగు డబ్బాలు	రంగులను గుర్తించుటకు ఏకాగ్రత మరియు త్వరితగతిన ఆట ఆడుట	III	మేకలెన్ని కార్డుల - మొత్తమొక ఎవరికెన్ని			జూన్ ఆగస్టు సెప్టెంబర్	అ స స	
టీప్పు క్రుక్క	భాగహారం చేయడం						అంకరిక్త ముద్దం	స స స
పదాలతో తమాషా	అక్షరాలను క్రమపద్ధతిలో అమరికపై విస్తృత పదాలు వాటిని గుర్తించి బొమ్మలకు కలుపుట	IV	పంకలనం - వ్యవకలనం			జూలై	సంగీతం గుండు	స స స
తైమండ్ రమ్	పెద్ద సంఖ్యలు, చిన్న సంఖ్యలు చేర్చుకోవడం భాగహారం మరియు బరువుల మీద ఆవగాహన							

**ZPHS, PUTHALAPATTU
CAL PROGRAMME**

S.No	Name of the school attached	Class covered	No. of students	No. of groups	No. of systems	Day/date of visit	Time From-To	C.D.Name
1	Puthalapattu,Vajjireddypalli	3	32	2	10	02/09/2005	10-00 to 11-30	Brain Storm
2	Puthalapattu	4	39	2	10	08/09/2005	10-00 to 11-30	Brain Storm
3	Puthalapattu,Vajjireddypalli	5	50	2	10	09/09/2005	10-00 to 11-30	Brain Storm
4	ZPHS, Puthalapattu	6	41	2	10	12/09/2005	10-00 to 11-30	Brain Storm
5	ZPHS, Puthalapattu	6	46	2	10	13/09/2005	10-00 to 11-30	Brain Storm
6	UPSchool, Samanatham	4,5,6	11	2	10	14/09/2005	10-00 to 11-30	Brain Storm
7	Puthalapattu,Vajjireddypalli	3	32	2	10	15/09/2005	10-00 to 11-30	Brain Storm
8	Puthalapattu	4	39	2	10	16/09/2005	10-00 to 11-30	Brain Storm
9	Puthalapattu,Vajjireddypalli	5	50	2	10	17/09/2005	10-00 to 11-30	Brain Storm
10	ZPHS, Puthalapattu	6	41	2	10	19/09/2005	10-00 to 11-30	Brain Storm
11	ZPHS, Puthalapattu	6	46	2	10	20/09/2005	10-00 to 11-30	Brain Storm
12	UPSchool, Samanatham	4,5,6	11	2	10	21/09/2005	10-00 to 11-30	Brain Storm
13	Puthalapattu,Vajjireddypalli	3	32	2	10	22/09/2005	10-00 to 11-30	Ravi's Dream
14	Puthalapattu	4	39	2	10	23/9/2005	10-00 to 11-30	Ravi's Dream
15	Puthalapattu,Vajjireddypalli	5	50	2	10	24/09/2005	10-00 to 11-30	Ravi's Dream
16	ZPHS, Puthalapattu	6	41	2	10	26/09/2005	10-00 to 11-30	Ravi's Dream
17	ZPHS, Puthalapattu	6	46	2	10	27/09/2005	10-00 to 11-30	Ravi's Dream
18	UPSchool, Samanatham	4,5,6	11	2	10	28/09/2005	10-00 to 11-30	Ravi's Dream
19	Puthalapattu,Vajjireddypalli	3	32	2	10	29/9/2005	10-00 to 11-30	Ravi's Dream