"e- school Monitor"

"Smart Governance in School Education"

Sarva Shiksha Abhiyan
Chittoor District
Andhra Pradesh

BRIEF OVERVIEW OF THE PROJECT

Information Technology (IT) is said to be the technology of 21st century. There has been a huge growth in the field of information technology. Traditionally IT was used only to provide the back office support to organizations. Nowadays it plays a strategic role in organizations supporting many business functions and also shapes new strategies in organizations. The IT field has also been introduced in the field of governance called "E Governance". This IT based E governance has also been introduced in the field of education.

The Department of Public Instruction, also called as the Department of School Education is one of the largest and oldest departments of the State Government. In Andhra Pradesh, there are 60 thousand schools with 73.37 Lakh Children and 2.86 lakh teachers in all management schools within the fold of the department. Sarva Shiksha Abhiyan is the joint initiative of Government of India to achieve the goal of Universalization of Elementary Education in the State within a time frame.

In Chittoor District of Andhra Pradesh, there are 5009 Schools functioning under Government, Mandal Parishad, Zilla Parishad and Municipal Managements with 4.0 Lakh Children and 16,000 teachers working.

Managing the administration of such a vast department with multifarious facets has been a real challenge. Collection, compilation and consolidation of data relating to schools, students and teachers in large numbers, falling under various categories such as; Primary, Upper Primary and High Schools and information relating enrolment, attendance of students and teachers, out of school children, implementation of mid day meal programme, basic facilities (drinking water and toilets), has been a stupendous task.

"e-School Monitor" a geo tagged innovative Mobile Application was developed along with instant real time MIS Reports in the website www.eschoolmonitor.in. This system provides deep visibility to governing bodies at School Level to analyze actual situation and gear up for future requirements. On the other hand E-School Monitor solution in the field of educational sector has changed the way administration is being done now. The solution incorporates whole data and processes of an educational Institution into a unified system, making the process uncomplicated, well-organized and error proof. The solution is designed to make the system user-friendly, time saving and cost saving also. Many of them are flexible enough to adapt to the changing educational environment efficiently and quickly

Thanks to the advancement of technology and implementation of e-Governance initiative & it has become possible to streamline the administration of the department and can aim at providing better governance in the department, with accuracy, speed and transparency.

CHALLENGES FACED BEFORE DEPLOYMENT OF THE PROJECT

Over the past decade there has been e-government initiative in the country at national state and district level. Some of them are highly successful and are implemented across the country and some of them are not successful. Hence there is a need of taking a holistic view towards the entire e-governance initiative across the country.

The success of e-governance plan highly depends on the awareness about the programme. Therefore the Government of India disseminates the information about the e-government plans.

Implementation of e-governance has changed the way of living of the people in many countries. However, in Education Department, the implementation of e-governance is little difficult because of its developing status. The government agencies find lot of difficulties in the smooth implementation of e-governance in Education Department because, the Head Masters, Mandal Educational Officers, Teachers and Cluster Resource Persons who are Academically Sound are very poor in having Computer Literacy and using IT related Projects, thereby, it needs capacity building for every programme which involves budget and lack of interest in certain employees to implement e-governance projects

Majority of the MEOs, Head Masters and Cluster Resource Persons are not having Android Mobile and also not updated with day to day technology. They bound for only Teaching subjects in their area of professionalism, they can hand write n-number of reports manually no matter, how much time it will get and how much loads of paper can write.

OBJECTIVES OF THE PROJECT

According to Graham Balfour "Educational administration is to enable the right pupils to receive the right education from right teacher, at a cost within the means of the state under conditions which will enable the pupils best to profit by their training."

The concept of educational administration may not be totally different from what we are familiar with in the concept of administration. Education at different levels has its objectives; the most important of the objectives that cut across all the levels of education is teaching and learning.

There are some lapses in Education System for which we have to track the actual statistics real time for proving better administration in the functioning of the school to produce educated and enlightened human beings who would be able to contribute positively to the development of the society.

The Major Objectives of the project are…

- ❖ Fact Findings in the Schools
- ❖ Accurate Monitoring by Cluster Resource Persons engaged for School Monitoring.
- ❖ Tracking Accurate Statistics in School Status viz.,
- ❖ Tracking Actual Children attended Schools
- ❖ Teachers Working – Actual Attendance
- ❖ Identification of Out of School Children / Never Enrolled
- ❖ Status of Drinking Water and Toilets
- ❖ Proper Utilization of funds and Balances in SMC Accounts
- ❖ Mid Day Meal Programme Implementation

SALIENT FEAUTURES OF THE APP

A Mobile Application with Geo-Tagged was developed with needy data capturing fields along with Photographs. The App was loaded with data of Clusters and Schools Attached to Cluster, Enrollment, Teacher and Physical Facilities viz., Drinking Water and Toilets.
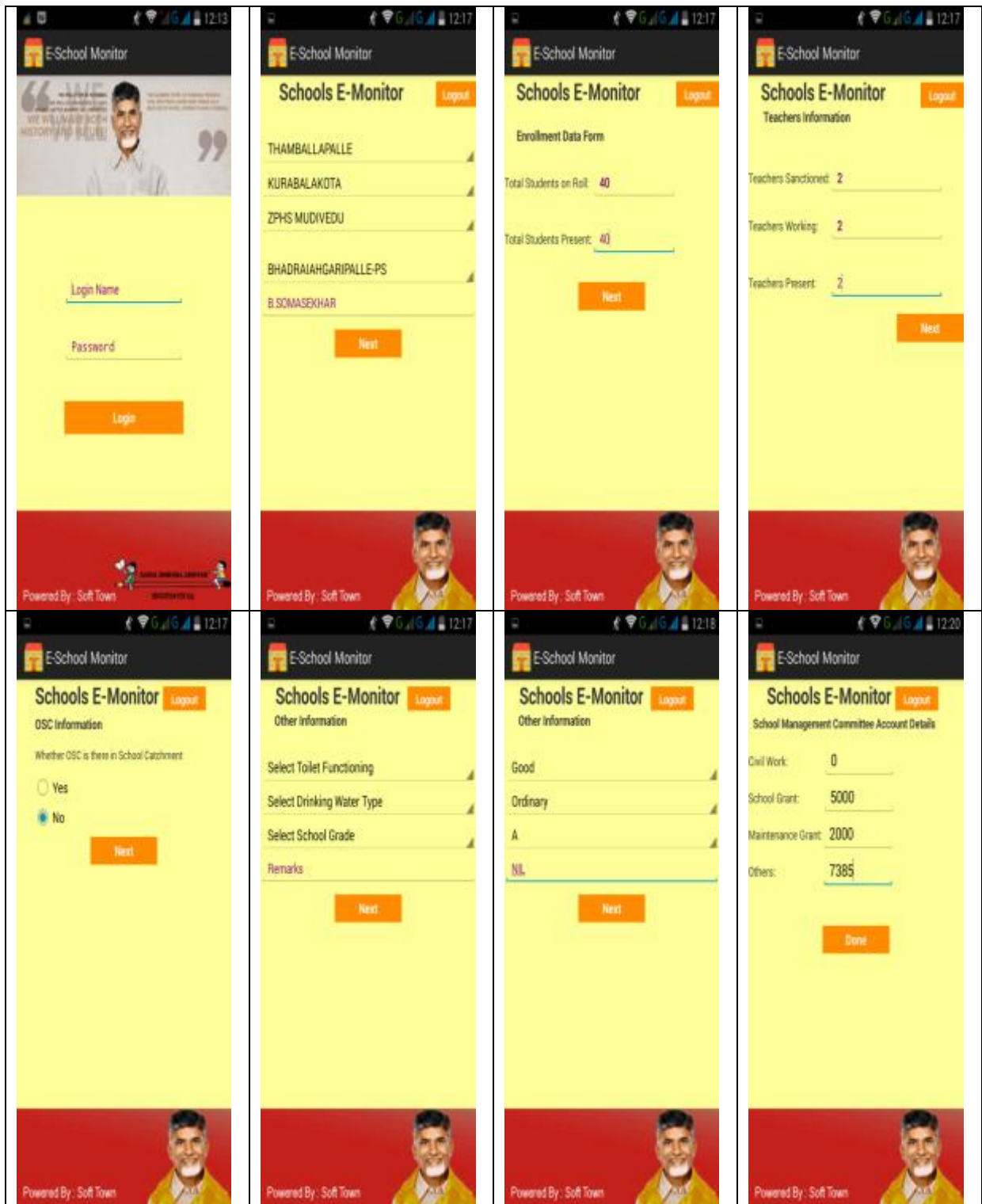
The application developed was used by Cluster Resource Persons who are deployed for monitoring of Schools. They will be located at Cluster Resource Centers and monitors the Primary, Upper Primary and High Schools in the catchment area of Cluster Resource Center. In an average 15 to 20 Schools will comes under one CRC jurisdiction.

Totally 351 Cluster Resource Persons are working in Chittoor District.

PROGRAMME WAS LAUNCHED ON 5TH NOV, 2014 BY HON'BLE CHIEF MINISTER OF ANDHRA PRADESH

Finally, the Cluster Resource Person captures Picture of School Prayer, Best Practices, Toilet and Drinking Water Photos etc., **most importantly pics like bad toilets maintenance, poor drinking water facilities and bad buildings etc.,**

Time Stamp

Capturing of Geo Location

School Report Card

Report Card – GALLAVARIPALLI-PS – 2015-07-27 10:31:52

District : CHITTOOR	**Constituency : PALAMANER**
Mandal : PEDDAPANJANI	**Cluster : CRC ZPHS NELAPALLI**

School Grade – B+

Students Status

Total Students	21
Students Present	18

Teachers Status

Teachers Sanctioned	1
Teachers Working	1
Teachers Present	1

Facilities

Toilets Condition	Good
Drinking Water	Ordinary

Out of Schools

Dropouts	0
Never Enrolled	0

School Management Committee

Civil Works	Rs.0
School Grant	Rs.0
Maintenance Grant	Rs.0
Other Grant	Rs.752
Total Grant	Rs.752

Mid Day Meals Details

Children Taken Meal	18
Implementing Agency	Self Help Group
Meal served as per menu	Yes
Kitchen Shed Available	Yes
Remarks	NIL

DETAILS OF COVERAGE OF THE TARGETED POPULATION

a. Schools

a.	Primary Schools	:-	3959
b.	Upper Primary Schools	:-	481
c.	High Schools	:-	569

= **5009**

b. Teachers

Schools	Sanctioned	Working
Primary	8435	6818
Upper Primary	2809	2289
High Schools	7238	6892
Total	**18482**	**15999**

c. Enrollment

Classes I to X	Boys	Girls	Total
Government	189134	198375	387509

COMPARISION OF THE PRE-DEPLOYMENT SCENARIO AND POST DEPLOYMENT BENEFITS. EXPLAINING HOW THE SOLUTION HELPED.

By implementing this solution, factual figures are found out in terms of Enrollment, Teacher Attendance, Children Attendance, Funds Position and Implementation of Mid Day Meal Programme

Pre Deployment Scenario (Manual Reports)	Post Deployment Scenario (App Reports)
Children Attendance :- 98%	Children Attendance :- 83%
Teacher Attendance :- 98%	Teacher Attendance :- 86%
Toilet Maintenance :- There is no particular assessment for recording Maintenance of Toilets at School Level	**Toilet Maintenance in Schools**
	Excellent :- 2.5%
	Good :-77.9%
	Average :-17.7%
	Poor :- 1.6%
Drinking Water Facilities :- There is no particular assessment for recording Maintenance of Toilets at School Level	**Status of Drinking Water in Schools**
	Purified :-14.5%
	Ordinary :-85.2%
Quality Grading – Child performance	**Quality Grading – Child performance**
A+ :- 11%	A+ :- 0.1%
A :- 33%	A :- 7.3%
B+ :- 32%	B+ :- 75.9%
B :- 14%	B :- 15.8%
C :- 11%	C :- 0.9%
Mid Day Meal Information	**Mid Day Meal Information**
% of Children taking meal :- 92%	% of Children taking meal :- 80%
% of Schools serving meal as per menu :- 100%	% of Schools serving meal as per menu :- 98.1%
% of Schools not serving as per menu :- 0.00	% of Schools not serving as per menu :- 1.9%

OUTCOMES OF THE PROGRAMME

Created Awareness
- Oriented all Mandal Educational Officers and Cluster Resource Persons about the actual status found through usage of App Vs conventional manual reporting system. Discussed about gaps in reporting system and percentage of false reporting by Head Masters.
- All Head Masters, MEOs, CRPs and other Field Level Monitoring Staff were made aware of any discrepancies in reporting which can easily be identified by using the e-school monitoring mobile app.

Major Outcome
- Increased Genuineness in reporting system from gross root level.

Specific Focused Monitoring
- By viewing various MIS Reports, the Mandal Level and District Level Officers visiting schools specifically in the following areas.

  - Irregular Attendance of Children and Teachers
  - Poor Drinking Water and Toilet Facilities
  - Improper implementation of Mid Day Meal Scheme
  - Huge Balances in School Management Account
  - Schools having Out of School Children in catchment area

- Thereby, schools having certain lapses were rectified through focused monitoring by different levels of Officers

KEY LEARNING FROM THE PROJECT

- Implementing Technology in Education Sector will provides accurate Monitoring and School Wise Focused Improvement in terms of Quality, Attendance and Physical Facilities.

NOTE ON THE COST EFFECTIVENESS OF THE PROJECT

- Project was designed in such a way that, it is implemented with minimum usage of funds.
- An amount of Rs.95,000 (Ninety Five Thousands only) spent for development, maintenance of App and Website.
- No further budget released for this purpose.

THIRD PARTY EVALUATION

- Third Party Evaluation will be conducted shortly by DIET / D.Ed / B.Ed., Students.