Brief Report on Project Proposal

Smart Governance in School Education

Sarva Shiksha Abhiyan
Chittoor District
ANDHRA PRADESH
"Samkalpam”
The Way Forward" IT Initiative in School Education

“e-Governance to me is easy, effective and efficient governance”

Shri. Narendra Modi, Hon’ble PM, Govt. of India
In Andhra Pradesh, 60 thousand schools with 73.37 lakh children and 2.86 lakh teachers are functioning among which 4.0 lac children in 5009 schools and 16,000 teachers are from Chittoor district.

Administering such a vast department with multifarious facets and monitoring the academic standards is really a wild goose chase.

- Such as data handling related to schools, students and teacher attendance, OSC, MDM programme implementation, procurement of basic amenities such as drinking water, toilets etc.

For the celerity of e-governance in the department of education, an innovative geo-tagged mobile application has been developed.

This app provides deep visibility of the actual situation at school level and for the need base analysis for future requirements and future planning.

This solution aims at providing better governance in the department with accuracy, transparency and accountability.

Thanks to the advancement of the implementation of e-governance.
Before Deployment, a District Initiative Programme "Samkalpam" was conducted in all the Primary, Upper Primary and High Schools in the district. The following are the shortfalls identified in the Education Survey:

- 20% of Irregularity in Children Attendance
- Most of Teachers not maintaining Year Plan or Unit Plan
- Implementation of Innovative Activities is not up to the mark
- Usage of Teaching Learning Material is low
- Class Work Notes Corrections, Home work notes correction practice is less
- Lack of Effective usage of Libraries
- Poor community involvement in the academic activities
- Low Knowledge & usage of IT in Mandal Administration

The challenge lies in giving obvious information that is to be understood by a common man. Another challenge is the flexibility of the app in as per the changes from time to time.
Objectives

- Fact Finding in Schools
- Tracking Accurate Statistics in School Status viz.,
- Tracking Actual Children attendance in Schools
- Working of Teachers – 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
- Implementation of Mid Day Meal Programme
About App

“An Real Time Geo-tagged Application along with Data Collection Fields with Pictures which functions in all Smart Phones”

&

“Real time Reports by a Web Based Tool for viewing instantly to create necessary decision and plans by the Administration”

www.eschoolmonitor.in
The Cluster Resource

Persons working in CRCs visit the schools along with Installed App in His/Her Mobile Phones. Gathers and submit the data of required information as per the fields designed in the App. The App will instantly send the Data to Web Server along with GPS Co-Ordinates and Photographs.

How App Works ...?
Solution Implemented

- A Mobile Application which is Geo-Tagged was developed with data capturing fields with Photographs.

- The App was loaded with data of Clusters and Schools Attached to Cluster.

- Teacher and Physical Facilities viz., Drinking Water and Toilets.

- The application was used by Cluster Resource Persons who are deployed for monitoring of Schools.

- On an average 15 to 20 Schools will be under one CRC jurisdiction.

- At present 351 Cluster Resource Persons are working in Chittoor District.
Mobile Screen Shots
Mobile Screen Shots
Capturing Geo Location of CRPs
School Report Card


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

Photos Captured

% of Children Attendance :- 85.71%

% of Teacher Attendance :- 100.00%

% of Meal Taken :- 100.00%

Toilet Condition :- Good

Drinking Water Ordinary
**Coverage of Targeted Population**

### Schools

- **Primary Schools**: 3959
- **Upper Primary Schools**: 481
- **High Schools**: 569
- **Total**: 5009

### Teachers

<table>
<thead>
<tr>
<th>Schools</th>
<th>Sanctioned</th>
<th>Working</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>8435</td>
<td>6818</td>
</tr>
<tr>
<td>Upper Primary</td>
<td>2809</td>
<td>2289</td>
</tr>
<tr>
<td>High Schools</td>
<td>7238</td>
<td>6892</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18482</strong></td>
<td><strong>15999</strong></td>
</tr>
</tbody>
</table>

### Enrollment

<table>
<thead>
<tr>
<th>Classes I to X</th>
<th>Boys</th>
<th>Girls</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government</td>
<td>189134</td>
<td>198375</td>
<td>387509</td>
</tr>
</tbody>
</table>
# PRE-DEPLOYMENT SCENARIO AND POST DEPLOYMENT BENEFITS

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

Mid day meal

- Pre Deployment Scenario (Manual Reports)
- Post Deployment Scenario (App Reports)
Solution Helped

• Resulted in tremendous feedback from the stakeholders of the SSA – students, parents, teachers and School Management Committee (SMC) members.

• Enhanced the vital parameters of accountability, transparency, quality and performance in the system.

• Galvanized the unique and exclusive programme of “Sankalpam” in Chittoor district (Grading of schools depending on their performance and quality; and selection of meritorious schools, faculty and students for awards). It has bolstered the aspects of quality teaching, performance of teachers guided by responsibility factor, grasping levels of students, and activity-based learning in the classrooms.

• Improvement in the attendance of students and teachers as well; apart from addressing the various problems related to toilets, drinking water facility, mid-day meal scheme in the schools.

• Helped in close monitoring of schools with increased student, teacher accountability, providing quality and nutritious food through Mid day meals programme, proper functioning of toilets and availability of safe drinking water in Schools.

• Increased children attendance, reducing irregularities, in turn decreasing dropout rates. It help in improving accountability in proper utilization of funds.
Specific Focused Monitoring

- By viewing various MIS Reports, the Mandal Level and District Level Officers visiting schools by monitoring 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 the catchment area
  - Thereby, schools having certain lapses were rectified through focused monitoring by different levels of Officers

Key Learning of the Project

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

Swatcha Bharath - Swatcha Vidyalaya

- Accurate Monitoring of Functionality of School Toilets
- Accurate Progress on Construction of School Buildings
Action’s taken

- Conducted Review Meetings with Mandal Educational Officers and Cluster Resource Persons on the reports generated.

- The MEOs are instructed to visit the schools specifically where
  - The Children Attendance and Teacher Attendance are poor
  - B and C Grade Schools
  - Improper Implementation of Mid Day Meal Programme
  - Poor Maintenance of Toilets and Drinking Water

- Conducted subject specific trainings to Teachers working in the Schools where the grade of School are B and C.

- Conducted Discussions in CRC Meetings with all the Head Masters about
  - Grade of School
  - Difficulties identified in Children Learning
  - Measures to Improve Teacher and Student Attendance
  - Teaching Techniques to improve Classroom Learning Process

Visit to Irregular Attendance Child Home

Motivating Parents of Out of School Child for enrolling into school
Objectives

The Recycle kit is designed to capture students’ interest and increase their understanding of essential science content as it pertains to the waste we generate and how we handle it. Recycle is designed to help eighth graders achieve the following outcomes:

- Identify types of waste generated by human activities.
- Become familiar with ways to deal with various types of waste material (hazardous and not).
- Develop an awareness of the responsibility of all groups, large scale producers and smaller scale consumers, to protect our environment through the correct handling of waste.

Exhibition and Issued Awards

The Material developed by Children were exhibited at Mandal Level and Selected Best Material to exhibit at District Level.

The District Level Exhibition was conducted on 23rd Jan 2015. The District Collector attended the programme and selected Best Exhibits

Issued Prizes and Awards to Best Exhibited Children and Head Masters
Cost Effectiveness

- Project was designed in such a way that, it is implementing 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.
Short CV of the Producer

• Sri. Siddharth Jain, IAS.,
  Chairman, SSA &
  District Collector,
  Chittoor

Future Road Map

• Child wise Performance Tracking by developing an android app
  • Class Wise
  • Subject Wise and
  • Competency Wise

• Developing “Digital UDISE” Unified District Information System for Education with all School Data along with Teachers information.

• Extending App based data posting by Head Masters at School points through Tablet PCs.

• Development of Digital Classrooms

• Smart Teacher and Smart Student
“Transparency is the key to good governance & e-governance is the only effective way of transparent governance”

- Sri.N.Chandra Babu Naidu. Honorable CM, Andhra Pradesh
THANK YOU