6P Approach to School education through ICT - A Byrraju model

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School education programs in rural India

— Byrraju way

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Hyderabad, India
“Poverty is the greatest form of violence in the world”

- Mahatma Gandhi
VISION

To create a
World-class platform for
holistic, sustainable
rural transformation
VALUES

Involving People

Applying Knowledge

Making Things happen
HOLISTIC

VLPE
Village enterprises
Products & Services
Rural BPOs

Community Involvement
Women Empowerment
Sports & Culture
Leadership Development
Village Visioning

Healthcare
Primary
Secondary
Telemedicine
HIV
Hypertension
Diabetes
School Health

Livelihoods
Market Linked Skills
Manufacturing
Services
Agri

Education
Primary
Secondary
Adult literacy

Environment
Drinking Water
Sanitation
Waste Management

Infrastructure
Rocks
Sewage
Bandwidth
Indian Education System

Nursery
LKG
UKG

Primary
Std. 1 - 5
[Age 6-10]

Secondary
(High School)
Std. 6 - 10
[Age 11-15]

Higher Secondary
Class11 to Class 12
[Age 16-17]

Graduation and Post Graduation

Upper Primary
Std. 1 – 7
[Age 6 – 12]
Impact on students

- Role models within the community
- NGOs
- Community
- Parents
- Teachers
- Government
BYRRAJU FOUNDATION

North Star: To provide high quality educational facilities to rural children studying in Government Schools adopted by Byrraju Foundation (referred to as “Model Schools”) at par with the best city schools.

Strategy: Public Private Partnership Model
Model School
(GOVERNMENT SCHOOLS ADOPTED BY BYRRAJU FOUNDATION)

- No. of Villages Adopted: 199
- No. of Schools Adopted: 294 (Model schools)
- No. of Children: 68,000
- No. of Teachers: 2000 (1680 teachers trained)
- No. of Programs Operational: 21 programs
- Partnerships: 15 alliance partners
Model School Framework

- **Hard Infrastructure facilities**

- **Soft Assets** (Teaching / Learning / extra curricular facilities)

- **Collaboration Platforms**

- **Overall Quality Improvement**
Model School Framework

Vision for Collaboration Platforms

- Ongoing partnership with government
- Active involvement of Teachers / MEOs / DEOs / District Collector, PTA, SEC, Gram Vikas Samithi (GVS)
- Regular community support to school in terms of resources
- Alliances with like minded NGOs / Educational Agencies / Donor Agencies etc.
- City – Village School Partnership
- Sharing and Adoption of Best Practices
- Develop the school as a community learning centre
EDUCATION PROGRAMS

Primary Education

- Computer aided learning [CAL]
- IBM Kidsmart
- ICT Summer Training
- Child Friendly School Initiative

Secondary Education

- Workshop - Teacher Training
- Ashwini Interactive Programs
- Lessons Through TV
- Science Club
- Science Laboratory
- Question Bank
- GE life skills
- BYTES
Ashwini

Workshop

Lessons Through TV programs

ICT in Education

IBM

Kidsmart

Ashwini

CAL program

Computer training

IBM Computer training
6 Point approach

- Pedagogy
- Participation
- Practicals
- Programmes
- Posters
- Power Point Presentations
Pedagogy

Participation

Practicals

Programs

Posters

PPTs

6 P approach
PEDAGOGY

• Teaching methodology
• Effective delivery
• Blackboard teaching
• Work shop series and teacher training
PRACTICALS

• Designing of experiments and models.
• Demonstration of experiments/models to explain science and mathematics concepts.
POSTERS

• Attractive posters for explaining science concepts.
• Will be useful as pedagogical tools by teachers while explaining in the classroom.
POWER POINT PRESENTATIONS

- PPT’s are made with animations to enable students to understand the content better through attractive visuals using the computers provided.
PROGRAMMES TELECAST

- Science content from the curriculum is telecast using simple presentations, interesting narrations, animations, involving students.

- Programs are recorded and transmitted via dedicated “Educational channel - Mana TV” to all the adopted and non-adopted schools across the state.
PARTICIPATION

• Student volunteers from colleges will give additional help to the needy students.

• Teacher volunteers also give guidance and support.
Value Addition by Byrraju Foundation

- Research in teaching methodology [6 point approach]
- Virtual delivery
- Special school programs
- Independent assessment and evaluation
- Merit scholarships [BYTES]
- Participation in State and District level Task Forces
- Policy making facilitation

Developing a replicable and sustainable School improvement model
Value Addition by Byrraju Foundation

- Building strong linkages between the school and community
- Alliance partners network / Synergy Creation
- Funding / Fund Mobilization
- Project management
- School improvement plans
- Ombudsman / Advocacy role
- Onsite support to the teachers
BYTES

[BYrraju Talent Examination and Scholarship]

Means cum Merit

BYTES

Persons with disability

General category
DETAILS OF BYTES

1] **Certificate of merit**
   - All the 50 “BYTES SCHOLARS [BS]” will be given certificate of merit.

2] **Educational tours**
   - All the BS will go on educational tour once a year.

3] **Projects**
   - All BS are encouraged to take up projects.

4] **Other activities**
   - All the BS are encouraged to participate in the quiz competitions and all other competitive expositions.
## Alliance Partnerships

<table>
<thead>
<tr>
<th>Name of the Alliance Partner</th>
<th>Area of Collaboration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government of AP/Rajiv Vidhya Mission</td>
<td>Special Support to our Model Schools</td>
</tr>
<tr>
<td>Azim Premji Foundation</td>
<td>Content and Teacher Training</td>
</tr>
<tr>
<td>IBM Foundation</td>
<td>Hardware, Software and Content</td>
</tr>
<tr>
<td>Microsoft</td>
<td>Teacher Training and Software</td>
</tr>
<tr>
<td>Center for Environment Education</td>
<td>Environment Awareness Program and Summer Camps</td>
</tr>
<tr>
<td>UNICEF</td>
<td>Content and Processes, Quality Improvement</td>
</tr>
<tr>
<td>State Resource Centre, AP</td>
<td>Digitized Content</td>
</tr>
<tr>
<td>Stanford Centre for International Development</td>
<td>Joint Research Study on Effectiveness of Technology Intervention in Model Schools</td>
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<tr>
<td>International Youth Foundation (GE life skills)</td>
<td>Content on soft skills</td>
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<tr>
<td>International Literacy Institute</td>
<td>Content in local language</td>
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<tr>
<td>Play for Peace</td>
<td>Games for Team Building</td>
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<tr>
<td>Community</td>
<td>Participation and Monitoring of Model School Program</td>
</tr>
<tr>
<td>Sri Pavani Seva Samithi</td>
<td>Value Education</td>
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</tbody>
</table>
Vision for Overall Quality Improvement

**Outcome Metrics**

- 100% enrollment in all adopted schools
- Less than 2% drop out rates per year
- ≥ 90% pass at 10th class board exam with ≥ 50% students getting ≥ 70% marks
- Student attendance ≥ 95%
- ≥ 80% scores in Hard Infrastructure / Soft Assets / Collaboration indices

DEVELOPING A REPLICABLE AND SUSTAINABLE SCHOOL IMPROVEMENT MODEL
Our team

Prof. K. V. S. Rama Rao
Mr. G. V. S. P. Kumar
Mrs. Girija Uday Kumar
Mr. Rajan Thampi
Mr. A. Rakesh
Mr. K. V. Prasanth
Mr. B. Arjun Rao

12 Educational coordinators
5 Technical coordinators
Nodal coordinators

11 Virtual leaders
Thank you
No. of Schools in Andhra Pradesh

[State Govt.–Directly run by DEO
Mandal Praja Parishad; Zilla Praja Parishad, Municipal]

Primary Schools: 64,259
Std. 1 – 5 [Age 6-10]
Upper Primary: 12,094
Std. 1 - 7 [Age 6-12]
High Schools 9,719
Std. 6 – 10 [Age 11-15]
International Youth Foundation - IYF (GE) – Life skills

Started in July ‘07 in 20 schools for Std. 8 – 10 (13-16 Yrs.): (3000 schools got benefited this year): 1 Yr. course- 60 lessons-4/week

Goals:

• To strengthen personal competence, communication, self confidence, decision making, goal setting

• Skills for successful employment (work habits, team work, cooperation, financial literacy (money management)

• Engaging in planning and implementing community based projects (to address community problems)

• Health issues

Strategy:

• Short lectures; large and small group discussions; role playing
<table>
<thead>
<tr>
<th>School category</th>
<th>No. of schools</th>
<th>No. of students</th>
<th>No. of teachers</th>
</tr>
</thead>
<tbody>
<tr>
<td>BF Foundation Model School</td>
<td>PS</td>
<td>122</td>
<td>15058</td>
</tr>
<tr>
<td>Statistics from all 6 districts</td>
<td>UPS</td>
<td>57</td>
<td>9204</td>
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<tr>
<td></td>
<td>HS</td>
<td>115</td>
<td>44075</td>
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<tr>
<td></td>
<td>TOTAL</td>
<td>294</td>
<td>68337</td>
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ICT (Virtual)

Ashwini (Virtual delivery platform created by Byrraju foundation using wi-fi technology): It is a two way transmission (Both video and audio)

Can be linked to 32 centres (connecting 3 at a time)

Spoken English
• Children have to enroll for this course
• Each session of 1 hour duration every day: 40 students in a batch
• Total course 100 hours (100 days or ~ 4 months)
• Course content pre-designed to cater to the rural youth
• A total of ~ 1000 youth are trained each year
Technology Usage in Education Module

- Computer Based Learning and Teaching program in 262 schools
- State of Art IBM KidSmart Program operational in 71 primary schools (to be started 30 new Primary schools)
- Distance Education Through Ashwini Platform in 32 villages – 1720 hours of virtual content delivery
- Virtual Science Lab Project in 100 High Schools
- Spoken English through audio and video Program in 75 Schools
- Environment awareness program in 47 UP Schools
Initiatives

- Red Ribbon Clubs
- Volunteers Involvement
- Education For All
- Scholarship Program
- Career Counseling & Guidance
- Virtual Leadership Program
- Science Clubs
- Safe Drinking Water
- School Sanitation
- Value education
Achievements so far

• No. of schools adopted in all the 6 districts : 294
• No. of villages with 100% enrolment : 78
• No. of schools with 100% SSC results : 04
• No. of schools with SSC improved results (more than 90% results) : 28
• No. of Computers Provided (Cumulative) : 456
• Laptop to High Schools @ one for each school : 94
• No. of CDs Provided (Cumulative) : 3885
• No. of IBM Young explorer units provided (Cumulative) : 502
• KU Band antennas provided to schools : 136
IMPACT

Villages adopted: 199
Schools adopted: 294
Children benefited: 68,000
Education programs: 21
No. of alliances: 19