

[DRAFT]

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### **Abstract**

The school is located in tribal belt with agriculture as the main occupation. The school is situated in tribal area, which is culturally rich but socially secluded. The parents of the students are poor, engaged in farming and are less aware about modern technology. The school head motivated people to save money for modern technology and computers, bought a laptop and a projector. Within one year, three computers were installed and students started learning computers after school hours. As a result, gradually parents started trusting the efforts of the principal. The school has its own blog, android application, YouTube channel, Facebook Page, Twitter account. RNEWS has been created, run by students - well acknowledged in the region. The school uses QR code and AR for teaching-learning process.

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### **Socio-Cultural Context of the School**

My Rangpur Primary School is located in the tribal area. Where people are way behind in many basic in technology. The kids did not even know what Google is. Teachers in the school were also was not up to date in technology. They were accustomed to teach students from traditional education system. There was not a single computer in the school. How can the concept of school and education be done without computers in today's modern world? Farming is the main occupation in the village and people are not well off in their economic status -therefore living poor life style. So, I cannot get any help from student's parents. In such circumstances, how to prepare student's, teachers and school with technology was a big problem for me.



Old Classroom

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**Current Classroom**

### **Efforts Initiated on the Process of Transformation**

Initially, we decided to buy at least one computer but main problem was finance. So I purchased a laptop and projector from my pocket and started teaching students with technology. They were so excited and happy. They liked to learn with laptop. Student's eloquently talked about technology innovations and new way of learning with their parents. Curious parents some day's come to school and took interest in school problems. The responses of the students were very impressive and I was also encouraged by the members of the school management committee. Other school teachers also helped me in this project. We started to speak to the children in school 30 minutes early in the morning so that the children could be given more time and not even rest the school curriculum. The members of the School Management Committee also started giving time to the school. To meet the needs of school money, we started to meet many donors of Navsari. **Tiny smiling face group** gives us a smart board and computers. In this way our work got momentum. I spoke to the teachers for the need of the school computer and decided that every teacher should pay 100 rupees per month for his salary. As a principal I contributed 500 rupees per month, and this money is opened in one school account and deposited in it. The members of the School Management Committee are ready to give 100 rupees per month. Knowing this fact, parents are ready to co-operate, every student in the school contributed 10 rupees per month. In this way managed to bring the computer in the school. Within 1 year, 3 computers were installed. After taking the computer every Saturday, Students start learning the computer after 11 am to 2 pm in extra class in school timing. The keys of a computer lab are accessible to the students so that students who are willing to learn can learn computer even on a Sunday. Members of the School Management Committee usually come to school with students on Sunday and watch the children's computer work. There was talk of keeping the guardian meeting in school at first.



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There was talk of helping the computer in the school. But no positive response was received by the parents so that I started giving technical knowledge to children through my laptop. Every Saturday, 11 am to 2 pm Extra Period has been given to students by giving an insight to the student. On 4<sup>th</sup> Saturday only children email, Google search, blog, etc. Learned about This skill of the children was presented to parents, which changed their attitude towards the school of the guardians. The children who were to be taught to me were equally enthusiastic, that was the strong link for me. I was well supported by the children and they were also learning very fast. Children also called their parents about this skill. That's why parents get interest in school. I started to get a good support from the teachers of the school. The members of the School Management Committee also started cooperating with each other. We all decided that to do anything, to bring the school forward in the digital field. After receiving the support of the school for the needs of the school, the schools have tried to move towards digital. The children taught by typing in Gujarati, English, and Hindi language through Extra Classes. They also taught Photoshop and DSLR camera operating software. I learned more about filling online form, in this way children make their first digital world interaction. Children made their own email address manually. Some children also made their YouTube TV channel.

### **Visible Results of Transformation**

My children have now joined Google and many social media platform with computer. So, with the help of students, I tried to make the social science book of standard 8 in digital through QR code. Each video of the social science stream of Standard 8 searches for YouTube and automatically QR code was created in the book. So that children can study this code by scanning this code at home too. This has given to the guardians keeping the parents meeting so that the parents give their children mobile at home so that children can study this QR code by scanning. This is the first ever digital event of the book in our school. The children's test was also conduct digitally. Every Saturday students can bring their parents mobile in the school and the application for a test of mobile in each guardian was installed so that the children give the test in this application and the result of the test ends, the screenshot sends on the school's laptop and in this way students learn this unique learning method.



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The second work was buying 30 3D specs (for 3D knowledge) in the school. Children have now started studying all the units of science biology with the 3D glasses. Now they are happy to learn and have more curiosity about science.

Children were also introduced to VR (Virtual Reality) technology we have provided 10 VR boxes in the school. Now the students are taking mobile from teachers in lunch time and started learning to many games and educational videos on the VR box. VR box are very useful for virtual learning. Because of VR technology students develop interest in education and able to learn tough topics easily.



AR (Augmented Reality) technology is also used in my school. We have bought the science chart which is use in AR technology. Just scan the chart by mobile and the thing of the chart is making alive. It's an augmented Reality, helps students and teachers in learning. We have around 45 AR technologies chart.

I have made 10 innovations in my school. Best one is RNEWS. We create a simple and small studio in our school. Every month the school's news is made by the students. Then we shoot the NEWS. Students are the host of the NEWS, and then we posted the on social media. We get good response by people who watch our RNEWS videos.

Together with the kids, I have also created a school blog, android application, YouTube channel, Facebook page, tweeter account etc.



## વાત નવસારીની રંગપુર પ્રાથમિક શાળાની...

ઉમેશ બાવીસા

વડાપ્રધાન શ્રી નરેન્દ્રભાઈ મોદીના ડિજિટલ ઈન્ડિયાના મહત્વાકાંક્ષી પ્રોજેક્ટને ચરિતાર્થ કરવાનું ભગીરથ કાર્ય નવસારી જિલ્લાના વાંસદા તાલુકાની જિલ્લા પંચાયત સંચાલિત રંગપુર પ્રાથમિક શાળા પણ કરી રહી છે. આ જિલ્લા માટે એક ઉદાહરણીય ઘટના છે, જેનો યશ જાય છે, આચાર્ય નીતિનભાઈ પાઠકને. તેમની મહેનત, દૂરદેશીપણું, શિક્ષકો, ગામજના, સરપંચ, એસએમસી સભ્યોનો સહયોગના કારણે આજે નાનકડું રંગપુર ગામ ડીજિટલ બન્યું છે. વૈશ્વિક યુગમાં પ્રાથમિક શાળાના બાળકો આંગળીના ટેરવે વિશ્વના ઈતિહાસની ખોજ કરે છે અને 'હમ બી કુછ કમ નર્મી'નું આત્મગૌરવ અનુભવે છે.

રંગપુર પ્રાથમિક શાળાના આચાર્ય નીતિનભાઈ પાઠક જણાવે છે કે, ધોરણ-૬ થી ૮ ના બાળકોને ડીજિટલ શિક્ષણ મળી રહે તે માટે ડીજિટલ (ગુગલ રૂમ) બનાવાયો છે. જેમાં સામાજિક વિજ્ઞાન વિષયના ૪૦૦ થી વધુ પ્રોજેક્ટ છે. રૂમમાં સ્માર્ટ બોર્ડ તથા ઈન્ટરનેટ સુવિધા છે. બાળકો જેનો જાતે ઉપયોગ કરે છે. દરેક એકમના કોડ બનાવીને બાળકોને આપવામાં આવ્યા છે. એટલે બાળકો રીસેસમાં શિક્ષકોના મોબાઈલથી આ કોડ સ્કેન કરીને જે તે પાઠનો વિધીયો નિહાળીને જાતે ભણી શકે છે.

વાંસદા તાલુકામાં આવેલું રંગપુર ગામ આદિવાસી વસતિ ધરાવતું ગામ છે. ગામની માટી રંગીન હોવાના કારણે રંગપુર નામ પડ્યું હોવાનું કહેવાય છે. બે હજાર જેટલી વસતિ ધરાવતા ગામમાં શિક્ષણનું પ્રમાણ સાદું છે. ગામમાં પીવાના પાણી માટે યુવી પ્લાન્ટ છે. ગામની શાળામાં ધોરણ-૧ થી ૮ માં ૧૮૦ જેટલાં બાળકો અભ્યાસ કરે છે.

રંગપુર પ્રાથમિક શાળા એસએમસીના અધ્યક્ષ અનિલભાઈ પટેલ જણાવે છે કે, ત્રણ વર્ષમાં અમારી શાળાની રોનક બદલાઈ ગઈ છે. સભ્યો દર મહિને રૂ. ૧૦૦, શાળા પરિવાર રૂ. ૧૦૦ અને દરેક બાળક રૂ. ૧૦ ઉધરાવી શાળાના ખાતામાં જમા કરે છે. જેમાંથી દર વર્ષે એક નવું કમ્પ્યુટર લાવી શકાય. છ માસમાં રૂ. ૧૮૬૩૦/- જમા થયા છે. શાળાની બધી જ



પ્રવૃત્તિઓ ઈ-માધ્યમ એટલે કે ફેસબુક અને યુટ્યુબ પર મુકવામાં આવે છે. શાળાને એક સ્માર્ટ બોર્ડ પણ દાનમાં મળેલું છે. આચાર્ય શ્રી નીતિનભાઈ અને શિક્ષકોના સહયોગ થકી શાળા ડીજિટલ બની છે.

શાળાના આચાર્ય નીતિનભાઈ પટેલે કહે છે કે, આજના આધુનિક યુગમાં બાળકોને આધુનિક શિક્ષણ મળે એ અમારું લક્ષ્ય સાકાર થયું છે. આત્મ સંતોષ થયો છે. ડીજિટલ શિક્ષણ થકી બાળકોની કૌશલ્ય શક્તિ બહાર આવી છે. બાળકો આજે અંગ્રેજી, ગુજરાતી, હિન્દી ટાઈપ કરી શકે છે. ઓનલાઈન ફોર્મ ભરી શકે છે. ફોટોશોપમાં કામ કરી શકે છે. ડ્રોન કેમેરા સંચાલન કરવાની ક્ષમતા ધરાવે છે, તેનું ગૌરવ છે. શાળાને ડીજિટલ બનાવવા સરપંચ, એસએમસીના સભ્યો, વાલીઓનો સહકાર મળ્યો છે. નવસારી જિલ્લા પ્રભારી મંત્રી અને વન, આદિજાતિ મંત્રી શ્રી ગજપતસિંહ વસાવાએ પણ નવસારી જિલ્લામાં શિક્ષણની ગુણવત્તાને લઈને શિક્ષણ વિભાગની સરાહના કરી હતી.

- નવસારી જિલ્લામાં જ્ઞાનકુજ પ્રોજેક્ટ હેઠળ ૩૭ શાળાઓમાં સ્માર્ટ ક્લસ બનાવવામાં આવે છે.
- શાળા પરિવારના સભ્યો પ્રતિમાસ બચત કરી દર વર્ષે શાળામાં નવું કોમ્પ્યુટર વસાવે છે.
- આદિવાસી વસતી ધરાવતા ગામની શાળામાં ડિજિટલ શિક્ષણ

ગુણોત્સવ કાર્યક્રમ દરમિયાન આદિજાતિ મંત્રી શ્રીએ નવસારી જિલ્લામાં નવસારી નગરપાલિકા સંચાલિત મિશ્રશાળા નં-૧૦નું મુલ્યાંકન કર્યું હતું. નવસારી જિલ્લામાં માત્ર એક જ શાળા ડી જોડમાં છે.

નવસારી જિલ્લાની ૩૭ શાળાઓમાં જ્ઞાનકુજ પ્રોજેક્ટ હેઠળ ડીજિટલ શિક્ષણ : નવસારી જિલ્લા પ્રાથમિક શિક્ષણાધિકારી શ્રી એમ.જી.વ્યાસના જણાવ્યા અનુસાર જિલ્લા પંચાયત સંચાલિત ૭૧૩ પ્રાથમિક શાળાઓ છે. જિલ્લામાં એ (પક્ષ) જોડમાં ૧૩૫, એ જોડમાં ૪૫૭, બી જોડમાં ૧૬૩, સી જોડ-૮ અને ડી જોડમાં એક માત્ર ગણદેવી તાલુકાની તલોદ પ્રાથમિક શાળા છે.

નવસારી જિલ્લામાં પ્રાથમિક શાળાનાં બાળકો આધુનિક શિક્ષણ મેળવી શકે તે માટે ૩૭ શાળાઓમાં જ્ઞાનકુજ પ્રોજેક્ટ હેઠળ સ્માર્ટ ક્લસ બનાવાયા છે. આ રૂમમાં તમામ આધુનિક સુવિધાઓ ટેબલેટ, ટચ સ્ક્રીન બોર્ડની સુવિધા ઊભી કરવામાં આવી છે. ધોરણ-૧ થી ૮ ના બાળકો ડીજિટલ શિક્ષણ મેળવી શકે તે સોંકટેવર પણ ઉપલબ્ધ કરાવાયું છે. પ્રશ્ન-જવાબો બાળક જાતે મેળવી શકે છે. આ શાળાઓમાં એક અલગ શિક્ષકની પણ વ્યવસ્થા કરવામાં આવી છે.

રંગપુરના સરપંચ છગનભાઈ ભોયા કહે છે કે, આદિવાસી વસતિ ધરાવતા ગામમાં બાળકો આધુનિક શિક્ષણ મેળવે એ ગામજનો માટે ગૌરવ કહેવાય. શાળા અને ગામનું નામ રોશન બન્યું છે. ●

**[DRAFT]**

My school comes from 1st to Rangpur Primary School type on Google. In addition, there are more than 450 projects of standard 6 to 8 social icons placed in this room, children are studying these projects in the time of lunch.

For the weaker children in the study every child is given professional knowledge on every Saturday, in which children are taught with digital camera photography and drone operating. For which I has BOUGHT a digital camera in my school and my friend's drone camera is also given to school one day in a month.

### **Further Areas for Change/Transformation**

In the future, I want to make my children book less in the school. Every child in the school should be given a tablet, in which there is a syllabus. The child will teach himself with a tablet. Doing homework only in notebooks. Below with all the tabs those children who do not have to take books into school, even if the burden of teachers' work is reduced. Keeping their books at home. Visit the tab instead of the book in school. This plan is only for 6 to 8 standard students. I believe that if technologically good use, teachers can do their work well and more easily. Children would like to study. The child arrives in school every day.

### **School Leader and Transformation**

As a leader, I had just given a platform to students, and all of them depend on the skills of students. The kids were so enthusiastic to learn that 20 of my students have their own email address. Kids have also made their own android application. How to broadcast a mobile on the projector and how to broadcast a laptop in the mobile. All my students have started learning on YouTube itself. In the lunch time, students started learning about YouTube. Every month my school internet uses more than 30 GB. It's been a great pleasure to see these kids learning technical stuff at this fast pace. Now I am confident about my work that it actually shapes the life of many students at this school. At present my school work remains extensively on social media. District teachers come to visit my school. This innovation has also been encouraged at the state level. This work of my school has also been displayed in the news paper. As a teacher, I have been very much happy to this work. Today, my children are still learning self in my class even I am not present in class. The result of my hard work is that I am proud of my children. In the matter of technology, my school is considered as the best school in Navsari district. Prints the news of my school in all district news papers. Kids from private school come to study in my government school. This is my biggest achievement today.





**રંગપુર પ્રાથમિક શાળા**  
તા.વાંસદા જિ.નવસારી  
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**ટીમ ઝી ૨૪ શાળાની મુલાકાતે**