

JULY 15, 2015

EMPANDENI WATER PROJECT



ZIMBABWE - PLUMTREE – MAGWE DISTRICT
MATEBELELAND SOUTH PROVINCE



IN CONJUNCTION WITH
CLEAN WATER FOR EVERYONE

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CLEAN WATER FOR EVERYONE

ABOUT CWFE

Clean Water for Everyone (CWFE) believes that through strengthening the local economy and empowering community leaders, we can solve the world water crisis.

CWFE finances borehole drilling on private school property that is followed by the installation of pumps, filtering mechanisms, water tanks, piping, faucets, latrines and urinals. Installation of all necessary equipment typically takes between 12 and 14 days, and the assets are well tested for safety. The result is access to 10x more clean water for the school and surrounding community than currently available.

We employ credentialed local labor to create jobs for the local community and also provide quick responses to maintenance repairs, should they be needed.

We develop partnerships with the school administration and the Parent Teacher Association to establish a system of checks and balances that ensures on-time payment and quality assurance of the installed equipment.

To pay for the new infrastructure, a 10-cent daily fee is added to student' tuition, which is 33% less than any existing clean water and sanitation alternative. The school then repays CWFE twice per semester with 5% of each repayment reinvested back into an Insurance Fund that the school cannot touch until maintenance is needed. At that time, CWFE will allow the school access to the fund and local workers will fix any problem.

After three years, the school assumes full control of infrastructure and is able to continue charging fees for water as an alternative source of revenue for school improvements or provide water for free to students and community.

Above all else, we measure our impact based on the social, economic, and environmental impact our projects have on the community.

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ZIMBABWE, EMPANDENI GIRLS HIGH SCHOOL: WATER PROJECT

1. INTRODUCTION

1.1. GENERAL

1.1.1. The main objective of the project was to provide **clean water** to the high school, elementary school and nearby communities, as well as improving overall **sanitation** at Empandeni Mission Girls High School. Key, was to augment the capacity of water sources, treatment, transmission mains, and storage facilities and extend the water distribution network to schools and the nearby school communities, in order to meet their water demands.

1.1.2. The project was appraised in **December 2014** through funding disbursement from USA, under **CWFE** offices, and became effective in January 2015. It was envisaged at appraisal that the implementation of the project would start by the beginning of year 2015 with the review design having been finalized and contract signed by end of December 2014. It was also envisaged that physical execution of the project would commence by the beginning January 2015 and completed in May 2015.

1.1.3. The construction work was to be carried out by local contractors through the refurbishment of existing structures and bringing them to standard for improved water supply and sanitation. The project was to run from **January 2015 to May 2015** with the refurbishment of one of the girls ablution block through the provision of a water pump, water tanks and improved sanitation and hygiene.

1.2 SOURCES AND IMPLEMENTATION

The project implementation was based on the information from a local newspaper the Zimbabwe Chronicle, which reported that there was serious water shortages at two major schools in the **Magwe Districts**, namely **Empandeni Mission Girls High School** and **Tegwane High School**. The main story was that Magwe District suffered severe drought year in and year out affecting water levels from the water sources, mainly the dam and a number of boreholes which fed the school, leaving pupils with no water or forcing them to close schools prematurely, disrupting lessons which were vital to the career development of the school children.

Through this story a project was designed to provide clean water and sanitation at the Empandeni Mission Girls High School. It was felt that their needs were more, given that it's a girl's school and it supported the development of the girl child.

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1.3 PROJECT AREA

The project area and design focused on repairing the water pump to feed into the overhead and underground reservoirs which then fed both the high school, elementary and school communities-(teachers' households).

It further focused on renovation of ablution facilities through the provision of good showers, toilets, piped water, flooring and repair of leaking pipes and roof. It also proposed purchase of a generator and two overhead tanks for water storage.

1.4 WATER SUPPLY AND SANITATION SECTOR

1.4.1 Sector Policies and Objectives

The main objective of the project was to promote good health and development through the provision of a sustainable supply of water and improved sanitation.

1.4.2 Water Source

The Empandeni Girls High School water source is directly from a local dam and underground water through boreholes. Most of the water is filtered using natural process of sand and stone filtration which then feed to the reservoirs and tanks. The water is then treated for consumption and use at the school.

1.4.3 Challenge

Due to the nature of major droughts each year, water supply is very limited and at times the supply is too low to meet domestic demands in the area in general.

1.4.4 Reality

There is little likelihood that the drought situation will change significantly hence the need to harvest and store water for future use by the school. It is therefore critical that there is enough water stored to make sure that there is availability throughout the year for general use and hygiene needs of the girls.

1.4.5. Coverage

Over 500 girls who are borders, plus elementary school pupils, teachers and the local church authorities depend on this one source of water. The repair and refurbishment of the water pump and additional water tanks will benefit the school community. The refurbishment of ablution provided the girls with the needed hygiene and sanitary requirements for their use and health benefit to have access to clean water and good sanitation facilities.

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2. PROJECT IDENTIFICATION, PREPARATION AND APPRAISAL

2.1. Origin

The origin of the project was influenced by a Zimbabwe Chronicle newspaper report on severe water shortages at Empandeni Mission Girls High School and Thekwane High School. The schools are in region 5 where there is severe drought year in year out. During the same period CWFE was also looking to support a project in Zimbabwe, hence the origin of the project through the engagement with authorities at Empandeni as well as a personal visit to the school to have full appreciation of the school needs.

2.2 Preparation, Appraisal, Negotiation and Approval.

Having identified the need, all parties agreed that the school needed the support. A proposal was put forward to CWFE with a budget and a work plan. The project was accepted in August 2014 and CWFE went out to fundraise. Based on the amount raised a revision was done, upon satisfaction by all concerned, a contract was then signed.

2.3. Project Role and Plan

The project role plan was to fully engage the school and communities to own the program and also contribute toward the project for maintenance of the project after CWFE moves out at end of contract period. The project required that the school levied a certain percentage for project sustainability. Discussion was held with the school authorities and parent development committees to make sure that funds are made available.

Through a number of meetings and negotiations, it was agreed that since the school was serving poor communities it would be asking too much from the parents who were already struggling to send their children to school. The school agreed to co-finance the project through fund received yearly by the school which amounts to US\$ 5000 per annum.

With this agreement it was agreed that the main objective of the project would be **“To provide clean water and sanitation at Empandeni Mission Girls High School”**.

The Plan was therefore designed to provide the following.

- Hire a consultant to be lead person in project management and implementation
- Hire Engineer or Contractor for project design and implementation
- Repair and purchase a water pump and provide a generator
- Supply of water pumps and fittings
- Renovate ablution facilities
- Purchase of a security fence

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2.4. Project Description

The project started in earnest in **January 2015** after the first disbursement of funds from CWFE. The Deputy Headmaster was the local project supervisor and also responsible for fund management, working with the school accounts department. He was also team leader of the procurement team.

The school was responsible for the purchases and supplied the material to the contractor, based on his requirements so as to closely monitor the cost and remain within budget.

3. PROJECT IMPLEMENTATION AND COST

3.1 Fundraising

Following the submission of the initial budget of US\$11,500, CWFE team went on to fundraise for the resources required and within a month of submission of budget a notification was received to say there was indeed a good response and well-wishers had raised slightly over US\$ 5, 000 and one well-wisher had matched the funds. A total of a little over \$12,000 was finally raised.

3.2 Implementation Schedule

Based on the work plan and project design and implementation schedule was designed to keep track of events and timeframes, so that the project did not go beyond agreed timeline. To date all the time lines and activities have been accomplished at 100% completeness

Scheduled in days (Duration)

Steps	Plan Start	Duration	Actual Stars	Actual Days	Percent Complete
Visit to school	1	3	1	4	100%
Concept Note	1	6	1	6	100%
Proposal writing	1	6	1	6	100%
Project costing	4	6	1	3	100%
Activity design	4	2	4	8	100%
Project Plan	4	3	4	6	100%
Implementation	12	30	12	30	100%
Inspection 1	15	2	5	2	100%
Inspection 2	28	2	28	5	100%
Project Closure	30	2	60	2	100%
Official handover	1	1	1	90	100%

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3.3. Procurement

A procurement team was put in place led by the Deputy Headmaster working with the school accounts department and the contractor. All procurement were based on competitive tendering and in line with the budget allocation. The school procured the material required based on the contractor's list and handed over to the contractor on delivery. This was to make sure that the material were used properly and easily accounted for.

Procurement was based on list of item and their estimated cost and then funds were disbursed based on the approved list. The list was then sent to Harare and funds disbursed to the School Water Project account with ZB Bank Plumtree Branch. It was encouraged that purchases should be local and that other major material if not available in the locality, then purchases would be done in the nearest town to avoid transportation cost.

3.4. Project Cost, Financing Source and Disbursements

The total project cost was US\$ 11575 this was due to the fact that an invoicing system was used and disbursement based on acquittals. The financing source was directly from CWFE USA office through Money Gram transfers upon request. Transfer document, deposits slips and interbank transfer document are filed for cross reference and verification of flow of funds and utilization.

These would be sent to the funder upon request for inspection and verification.

An excel spread sheet for invoice is available and was sent to CWFE for inspection and approval before project closure.

4. OPERATING PERFORMANCE

4.1 Partner - The major partner to this funding was CWFE USA office in New York. The office was extremely helpful and swift in responding to the project request and funds were transmitted timely. There was also constant collaboration and sharing of information through e-mails directly with the school and through the local consultants for rectification and making sure that there was compliance to the agree TOR and contractual agreement.

4.2 School - Through the Headmistress and the School Executive, there was close liaison to make sure that the project was on schedule. The Church leadership, The School Development Committee (SDC) also participated in the project and parents were also invited to tour the project for their own appreciation and project's benefit to the pupils. Partner support was acknowledged CWFE Abbey Wemimo, and the entire team as well Mr. Nqobile B. Chitimbire a Zimbabwean based in the USA for giving back to his country of origin, for other children to benefit.

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Appreciation and gratitude was expressed to individual who entrusted their money to the project and believed in the vision of CWFE.

There was generally **good leadership** and **transparency** in the project implementation and management. The Empandeni Mission Girls High School was the main beneficiary, with the elementary school and school community also benefiting.

4.3 Community

Community participation was key to the project through the School Development Committee and local Leadership. The Ministry of Education representation through the local District Education Officer (DEO) consulted and updated about the project and its development, of which they approved and supported. Local labour force was also engaged through the contractor which provided income for the locals.

5. FINANCIAL PERFORMANCE

5.1. Budget

An income and budget expenditure activity template was designed to monitor the expenditure at all times as seen below.

Project Oversight	\$700
Consultant	\$700
Engineer	\$800
Architect	\$800
Laborers	\$800
Renovation materials	\$3,000
Diesel generator for pump	\$1,200
Security fence	\$200
Overhead water tanks	\$2,000
Ablution fittings and piping	\$1,000
Bank charges and office costs	\$300
TOTAL	\$11,500

5.2 Maintenance and School Contribution

The Maintenance and school contribution is US\$ 5000 per annum, this is part of the grant the school receives each year and is targeted toward maintenance – already this fund was being used to repair school buildings and other repairs.

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6. CONCLUSIONS

6.1. Project Achievements

The project was successfully accomplished within the specified period. Below is the illustration of the successes and achievements.

Before



After



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Before



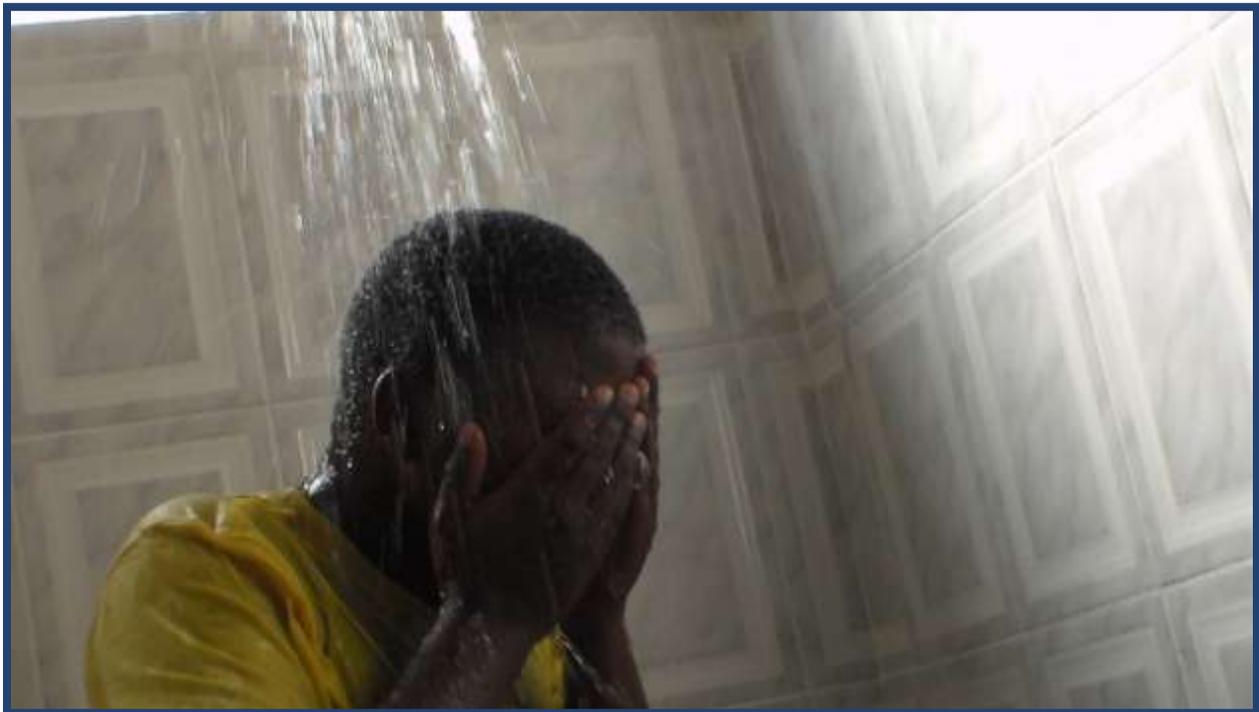
After



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"WATER IS LIFE."



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JULY 15, 2015



JULY 15, 2015



JULY 15, 2015



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Closing Sentiments

The school is grateful for all those who supported this great development, as it has changed their lives. The introduction of the project was met with enthusiasm and excitement. The authorities indicated that their prayers had been answered as the school was in dire need of resources for the total refurbishment of the school which was established in the early 1900s and that with age it had seen its days. Key for the school is not to put up new structure but rehabilitate the existing structures.

The finalization of the project brought great joy from the authorities, parents and pupils, who were extremely overwhelmed and appreciative of CWFE for this huge blessing.

6.2 Recommendations – Future Plans

Moving forward, Empanjeni has additional ablution blocks that require refurbishment, and there is a need to continue investing in the reliability and sustainability of the school's water system. CWFE will explore further project possibilities at the school as funds become available.

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In their own words – “Siyabonga kakhulu CWFE and the funding partners – Ingathi Inkosi Ingalibusisa lonke” – meaning “Thank very much CWFE and the funding partners- May the Almighty GOD bless you all”



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Appendix – Student Letters

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EMPANDENI HIGH SCHOOL

P. BAG 5902

PLUMTREE

0772 90 55 09

0774 375 187



REPORT ON: THE ABLUTION RENOVATION

DATE: MAY 2015

FROM: DADIRAI NGOSHI -3SCIENCES

The renovation of the form 3 ablution has brought a great change at our school .We give all thanks to C.W.F.E organisation for the donation which has transformed the lives of our fellow students at Empandeni High School. Our school was built many years ago so many buildings need major renovations

The old ablution was an eye-sore as it was very old and it looked more like a fowl run. Majority of the Form 3 students did not like to use the old ablution because it looked unhygienic despite the daily cleaning. The main door could only be secured using “wires”.

The interior structure of the ablution was divided into two compartments which comprised of bathing and toilet sections. Both these sections did not have doors which did not allow privacy to the users during their day to day “visits” .On the other hand, the water system was problematic meaning that the students did not have access to running water from taps .Due to such conditions there was no option except to use the bucket system which was a greatest challenge .Some of the bathing sections did not have shower roses and the steel divisions had rusted and had sharp edges which was a serious threat to the users. The roofs of the old ablution block had leaks, and the poles supporting the roof were such a sight.

Focusing on the old ablution, the floors were rough and the plastering on the walls worn off .Some of the pipes had rusted and the toilet basins were very old thus difficult to clean. The ablution has now been transformed into a state of the art infrastructure and the envy of other girls whose bathrooms are not yet renovated.

From the donations made by Mr Nqobile Chitimbire and Mr Patrick Smally of the C.W.F.E Organization, we managed to improve the following areas: A new steel double door painted grey makes both the bathroom and toilet sections lockable to allow privacy to the users..The walls and floors now have beautiful tiles so that the toilet looks presentable, hygienic and easy to clean. Above all, new toilet cisterns and basins were put in place and the old one destroyed in all toilets. A new ceiling was fitted and it was painted in white colour which was seen as ideal for the ablution or ceiling .In addition, from the funding we managed to change the piping system was changed so that the students can have access to running water from the taps. New and better lighting system has been connected so that students can use the ablution facility freely at night.

Due to the renovations made, we as the Empandeni High school pupils are very grateful and we are happy for such a gesture of kindness made by C.W.F.E organisation. We trust and hope that you will continue to sponsor or donate to us kindly. May the good Lord shower his blessings on you? We as the pupils promise to keep the ablution hygienically clean and sparkling all the time. Thank you.....

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REPORT ON: THE ABLUTION RENOVATION

DATE: MAY 2015

FROM: KIMBERLY TSOKA -3 ARTS

So they say, “what catches the eye is the beauty of nature” and so I say , “what catches a student and the parents is the beauty of the school” .Yes, Empandeni Girls High school has been known to be one of the best schools in Zimbabwe but personally say, it was an eye –sore.

The infrastructure at our school has become something no one would wish to see but my main point is specifically based on the renovation of the ablution .Although it looked a bit stable, it was never proper, the toilet seats were broken and water piping system was not functional .Most of the drainage was blocked thereby causing most of the waste water to flow on the pavements and corridors causing bad smell.

The flushing system in toilets was also not working so most of the peoples have resorted to using buckets in the toilets .In our ablution; there was poor ventilation and lighting which made it difficult for most students to use the ablution as they wished. Most of the windows were broken and the doors had sharp edges which could be dangerous or harmful to the ablution users .The floors were very rough and had potholes making it difficult for us to clean .Both the toilets and bathing areas did not have lockable doors which would allow privacy and security to all students using the ablution facilities.

Due to the renovation made by Mr Nqobile Chitimbire of C.W.F.E organization we have managed to renovate our old ablution into a beautiful masterpiece .One can hardly tell that a school like Empandeni can have such a beautiful, state –of – the art ablution as it has brought a great improvement at our school. From the donation we managed to buy new toilet basins and cisterns, new shower roses, new doors, painting of the interior structure, connecting the water system and finally tiling of both the walls and floors .Looking at the appearance of the renovated ablution, it is now the envy of many people around and within our school premises.

We as the students at Empandeni High school give thanks to Mr Nqobile Chitimbire alongside Mr Patrick Smally and other individuals who made it possible for the project to be a success. We wish the same would happen to all the other remaining ablutions because the schools has tried for some years but had challenges .Above all , on behalf of my fellow stream mates , I thank the donor for the contribution that was made at our school .May the good Lord bless you forever and ever . Thank you

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REPORT ON : SCHIMDIT AND BEILER ABLUTION

DATE: MAY 2015

FROM: CHANTELE. M .NDLOVU – 3 ARTS

It was extremely beyond our thoughts that anyone could do such a wonderful job of renovating the old ablution block for our school. For the past two years we have learnt at Empandeni high school I have seen it all but above my imagination I have not seen anyone with such a kind heart of assisting the needy in Zimbabwe .the beauty of our new ablution has left many people grieving for more as it was transformed into a magical masterpiece . All the renovations and good works were as a result of the donation made by Mr Nqobile Chitimbi of the C.W.F.E organization and we are very grateful for his generosity. Now as we look inside the ablution we can see the beauty of the new and decorative tile on both the walls and floors of the ablution block which is adorable and admirable.

They say what surely catches a man's eye and pleases it is to be pumped and promised at .The interior appearance of our new toilet breathe taking /impressive making the infrastructure user friendly .What really shocked us most is the screwed up basins which are so attractive as compared to the old dump we were using previously revealing to us clearly that the great works of our donors brought a positive change in the lives of the pupils at Empandeni high school .

In addition, the roofing was also changed as a new white ceiling was put in place so that the ablution would look more presentable and up to standard .The doors and walls were painted in grey colour which matched well with the ceramic tiles making the interior appearance of the block very pleasing .The best of them all was that, water system was connected in all taps meaning that we can use water running out of taps as we wished. Most students were tired of using the bucket system so with the renovations made life was made easier for them.

However, as the Empandeni high school students would like to thank Mr Nqobile Chitimbi , Mr Patrick Smally and all those who contributed towards this project. We wish all the other ablutions could be renovated so that we can live a better life and use good standard ablutions. Thank you.....

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REPORT ON: THE ABLUTION RENOVATION

DATE: MAY 2015

FROM: KYLLAH MUJATI- 3COMMZ

It is true when they say a bad beginning makes a good ending. First of all, I want to show my gratitude to all those who made it possible for our ablution to look as beautiful as ever. Indeed our stream is a lucky lot because from the whole school they decided to choose to renovate the form three Beiler and Schmidt ablution.

Our ablution was so old and it smelt gross even if we tried our best to clean it. The toilet basins that used to be as white as snow had turned brown in colour as they had become old. Plastering from the walls was falling off and paint was no longer visible. Doors had been corroded by rust and had sharp edges which could have resulted in deep cuts or injuring the ablution users. Focusing on some of the doors, they had no lock which meant that they were no longer serving their purpose of allowing privacy to the users.

The water system in some of the showers was not functional so most people had to use dishes and tins to carry water outside so that they could bath. Some of the sinks had no water systems making it difficult for the students to use the ablution effectively. In the ablution area, there was also the issue of poor lighting system which made it difficult for the majority of students to access the ablution facility at night. On the roof of the block there were a lot of cob webs and the condition was so pathetic.

Due to renovations which took place at our ablution, New basins and cisterns were installed, ceiling was erected and painted, new doors were put in place, tiles were put on both walls and floor, lighting system was improved and above all water system was connected in the ablution block.

We would like to give thanks to Mr Nqobile Chitimire, MR Patrick Smally and all the individuals who had a hand in the success of the project. As a request we kindly ask you to do the same for the remaining ablutions for Possenti and Prestage if funds permit. Thank you for your generosity and we appreciate everything you have done for our school.
THANK YOU

JULY 15, 2015



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REPORT ON: THE ABLUTION RENOVATIONS

FROM: ZELDAH MANGE - HEAD GIRL;

DATE: MAY 2015

If there is one thing that defines Empandeni High school, it is gratitude .As the head girl of the school, am very happy about the greatest work done by the C.W.F.E organisation on behalf of the students. The old ablution at our school had been abandoned due to its unpleasant appearance as it was built long ago .Our own man of God , Father Victor Dube usually say , “ Umuntu ongabongiyo ufana lomuntu odla esesulela phansi”, Thank you very much Mrs Chitimbire , Mr Nqobile Chitimbire and Mr Patrick Smally and all those who contributed towards this project .

From the renovations made, the old ablution was turned into a state-of –the art infrastructure which was an envy of some of my fellow schoolmates .From the funds donated, we managed to put new good looking tiles on both walls and floors, painting of the interior, bought new doors, put up new ceiling, connected the water system and finally installed new toilet basins/ cisterns.

However, the new ablution has been transformed and has attracted a number of pupils due to the excellent appearance .We are very grateful and we indeed promise to maintain the standards of health for our better education. From such a marvellous job , we will ensure that it is kept spotlessly clean at all times .

Thank you very much, siyabonga.....tatenda and God bless !

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