

BeeHive School News

SPECIAL POINTS OF INTEREST:

- MIT Brings Computer Lab to BeeHive
- People Coming Together in a Big Way Wordlwide

• Architectural Plans Nearing Completion

 Good and Bad News—BeeHive Shut Down, but New Building Finally Approved!

HIGHLIGHTS

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ISSUE 2

DECEMBER 2009

MIT Brings Computer Lab to BeeHive

In 2008, the world is safely into the digital age, and it's never turning back. Malawi hasn't been forgotten, either. Computers are beginning to appear on the desktops of small businesses

and in the laps of the less affluent. In the coming years, computer and mobile technology will rapidly trickle down to become ubiquitous in the Malawian workplace. Reaping the benefit of this new technology will require



competent and innovative minds and where better to build them than at the Beehive School?

Beehive headmaster Niall Dorey believes that IT education at the primary level will prepare his students for success in a struggling job market by equipping them with rare and valuable skills. By becoming familiar with basic computer skills at a young age, Beehive students will

enter secondary school with a competency in technology that their peers lack. This advantage will eventually serve students very well as they look for work in a job market that will increasingly demand computer literacy.

MIT Students Justin Cannon and Petek Saracoglu are BeeHive School's Heroes!

Fueled by Dorey's conviction and the proactivity of other Beehive volunteers, Justin Cannon and Petek Saracoglu arrived in June with twelve computers and a mission to modernize Beehive's



computer lab. Having raised money and collected donations from MIT, Justin and Petek immediately got to work refurbishing the lab with new desks, a fresh

coat of paint, and a dozen top-of the-line computers. Finding the right supplies to connect the machines was sometimes difficult, but the new lab was working and ready for students within a few weeks.



Justin Cannon and Petek Saracoglu created posters to explain the inner workings of a computer

PAGE 2

BeeHive Computer Lab



In addition to shipping and installing the computers, Justin and Petek strove to introduce the lab as an educational tool for teachers, as well as students. Beehive teachers were invited to four all-day bootcamps during which they learned basic computer skills, how to operate the lab, and teaching strategies. Shortly after, Beehive students entered the lab with bright eyes and high expectations.

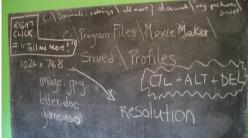
Since Justin and Petek returned to the U.S. in August, the Beehive staff has taken proud ownership of their new lab. Students continue to use the lab twice a week and have access to more educational games and tools than ever before. Beehive hopes to develop an IT curriculum around the lab that will focus on training technology skills beyond basic computer usage.

BeeHive Computer Lab Grows from Two Computers to a dozen with the help of Justin Cannon and Petek Saracoglu

BeeHive IT Curriculum



In BeeHive's computer lab, students are taught everything from basic mouse movements and search skills to the inner workings of the hardware in a computer to more advanced concepts. BeeHive is very grateful for everyone who made their computer lab possible.



BeeHive Students Dig Deep and Learn about the Inner Workings of Computers

BeeHive School Teachers and PTA are Trained in the New BeeHive IT curriculum

MIT Knowledge Box (K-Box)

This past spring, four MIT students: Justin Cannon, Christina Soyeon Kang, Angela Mjojo, Leanne Veldhuis, and Jen-Hao Yang, partnered with BeeHive School to create a platform that would bring a snapshot of the internet to remote areas, like BeeHive school where the internet will not arrive anytime

Knowledge	this decade.
in a Box for	Kbox gives Bee
Remote	Hive, which has
Areas	no internet con
	nectivity, offline
access to valu	able educational
web resource	es by storing edu
cational cont	ent on an

Edubuntu machine.

To learn more about the student team and their involvement in BeeHive School go to:

http://beehiveschool.com/mit/mit.php

To view the team's final presentation visit:

http://channel.media.mit.edu/ict4d/content/beehive

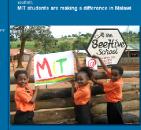


Special thanks to Stan Diamond, John Trethaway, Sarith Phal, and Randy Cook from the Broad Institute IT Operations Team for making possible the donation of ten desktop computers and other supplies.

BeeHive on MIT Homepage

HiT

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headlines from MIT
MIT admissions dean discusses includes of 2014
Students propose X-Prites for bealth

ents act day of spring semicitier classes - May f ing craft as - May f 5 peed Link networking event followed by 600 DDo - May f 6 moment is like-to-work day - May f6 more events.

MIT Google @People @Ot Go BeeHive enjoyed fifteen minutes of fame this past year as it was featured on the MIT homepage. It was a big day as the website reached the first search item on google for the term Beehive and got over 30,000 hits. The media coverage was vital as it attracted several key donors that ultimately made the MIT-BeeHive Computer Lab Project a reality. Many thanks to the MIT web crew for their timely and generous support.

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Standard 5 Fundraiser for Sports Equipment



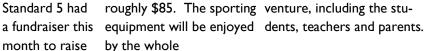
Standard 5 had month to raise funds for sporting equipment. They baked cakes and made drinks that they sold to their

Kwacha or

5 class will be responsible for management and care of the equipment.

peers and raised A big thank you to a total of 12,400 everyone who participated in this

school, but the St.





Students compete for the prized house cup





HOGWARTS COMES TO BEEHIVE

In the tradition of Harry Potter and schools in England. BeeHive has created four "houses" or teams that compete for the House Cup—a giant trophy! Bee-

Hive's Tigers, Lions, Cheetahs, and Leopards strive to outperform their peers in this good-natured competition through sporting events, mental math matches, spelling competitions, acts of kindness, good manners, and class participation.

BeeHive News

TIGERS DOMINATE SPORTS DAY EVENTS

Despite the drizzle, sports day on July 18th was a huge success with events in soccer, netball, jump rope, and races. Tigers won most events and made a total of 90 house points!

Sincere thanks to Mr and Mrs Chikhuta and Mzuzu Hotel for the generous loan of PE equipment.

NATIONAL TREE PLANTING DAY

Standard 4 is planning a spelling bee to raise funds for a tree nursery which will be distributed under the National Tree Planting Day on the 2nd Monday in December.

With heavy logging in the area, students are happy to plant some new trees to beautify their city.

Parent Mr Nkwazi has volunteered his green thumb to help out.



Rowan Haysom Develops Architectural Plans

Rowan Haysom (www.haysom wardmiller.co.uk), an architect in the UK, has kindly offered to design the school free of charge. He has many far-sighted ideas that will not only minimize construction costs, but create jobs for local laborers and at the same time make the school 'green' and sustainable.

houses, the new plans call for more

plumbing, so that sanitary bathroom

garbage collection in town, so part of

the half-acre the current school is on

is used as a charred garbage dump,

since the standard protocol in the

area is to burn as much garbage as

possible. The glowing embers are a

constant fire hazard to the buildings.

The new plans call for a composting

system and furnace for garbage burn-

shuts off for a week at a time, so the

power. Security guards are employed

to watch over the school during the

night, since theft is a serious problem

easy targets. The new school will be

and the flimsy classroom walls are

barred window coverings to deter

made with local bricks and iron

new plans call for solar panels and

batteries to provide for reliable

facilities are available. There is no

that are equipped with modern

There are roughly 150 students attending BeeHive, which is forced to turn students away in an effort to keep class sizes small, manageable, and effective. We are hoping to relocate the school and build a bigger and improved facility that will not only double the capacity, but be structurally sound and earthquake safe - all students everywhere deserve to study in a safe environment. Structural travesties are not uncommon - while we were visiting in the Summer of '06, a community building in the town of Mzuzu collapsed killing the instructor and severely BeeHive is ing. The electricity is spotty and often injuring half a dozen students. forced to turn

BeeHive's current facilities are inadequate as they were constructed with minimal funds and space has run out on the lot bringing BeeHive's expansion to a standstill. Currently, BeeHive has two out-



BeeHive Teacher Special

students away

in an effort to

keep class sizes

manageable,

small,

and effective. thieves.

This teacher's special is dedicated to the standard 5/6 teacher Bahat Phiri who recently retired from BeeHive. Mrs. Phiri has an extensive background in teaching high school students and nurses biology. Her Mary Poppins no-nonsense attitude combined with her motherly instinct made her an excellent

teacher who was respected and Muslim and is a strong symbol admired by all her students.

Originally Mrs. Phiri joined Beehive school on a temporary basis, helping out with a small class of six children in preparation for them going to secondary school. She is a neighbor of the school and three of her grandchildren study at BeeHive.

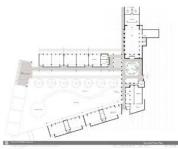
Mrs Phiri is also a practicing

Rowan is from South Africa and is familiar with common building practices, local material availability, and environmentally friendly construction methods. Using simple, yet effective passive solar techniques he is designing a school that will remain temperate despite the harsh heat and cold that is not uncommon in Mzuzu, which is located in the mountains and witnesses harsh seasonal weather shifts. The point is that BeeHive needs a safer, bigger, and more student friendly school.

Rowan's models and detailed cost estimates are available at:

http://www.beehiveschool.com/ construction/plans.php

http://www.beehiveschool.com/ construction/cost.php



Aerial Cross Section of the New **BeeHive School Architectural Plans**

of the diversity and inherent tolerance present in every aspect of BeeHive School.

Now that she is retired, Bahat will enjoy her free time by socializing with friends, cooking, reading, and looking after her grandchildren.

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BeeHive Volunteers, like Charles Lee below, go the extra





Scotts Valley Rotary Club Donates books to Improve the Teacher Training Program

People Coming Together

A bake sale might sound like a small thing - but to Bee-Hive it is not. It takes a different kind of person to realize that a small school on the other side of the world is connected to us in a very real way. That one bake sale is a critical part of the larger solution - the bigger picture.

The truth is that it is through the combined efforts of bake sales, charity runs, card sales, individual donations, and small events, that BeeHive will eventually realize its dreams. Through the efforts of many minds sharing an idea and little by little sharing that idea with more people - the idea that we are all connected and that we must all reach out to one another.

There are dozens of people from all backgrounds starting to reach out and help this school doing little things to make a big difference for the BeeHive School community.

The Human Race

At 7am on Saturday, May 10th, seven volunteers united to represent Bee-Hive School in the annual Human Race in Mountain View, California. It was a beautiful, sunny day and there were hundreds of runners representing a plethora of non-profits. There was something for everyone—a 5K walk for those interested in a morning stroll with their favorite canine and 5/10K runs for people looking to get some sweat on their brow.

Thank you to Alicia Clum, Charles Lee, Brian Hachtmann and Danielle Sheehan

for running a great race! Congratulations in particular to Charles Lee and his coworkers from Volkswagon for their generosity—they get the bragging rights for raising the most funds!

The booth to educate people about Malawi and tell them about BeeHive School was a great success with paper copters and African maps for coloring. Special thanks to Angela Otero, Alicia Winquist and Katy Harrison for running the booth!



Brian Hachtman ran a great 10K!

These books are the first step towards creating a comprehensive reference library for BeeHive teachers and other local schools.



Scotts Valley Rotary Club

This summer, BeeHive received a generous donation of valuable teacher training resources from Scotts Valley Rotary Club. These fifteen books cover a range of subjects from teaching literacy and numeracy to effective classroom management to child development. The cornerstone to Bee-Hive's success has been its intensive and ongoing teacher training program. It allows for an international level of education within a Malawian context by taking local teachers and providing them with the necessary tools and skill sets to teach to their full potential.

Golden Gate University International Law Students Association

In the heated competition, mounting stress, and sleepless nights that accompany finals, the Golden Gate's International Law Student Association stayed up into the wee hours of the morning sacrificing precious study hours to make delicious sweets for the BeeHive Bakesale.

Why during finals? Good question! Being the brilliant critical thinkers and marketing minds that they are—these students realized that it is during finals that their fellow classmates would most want savory desserts and sugar to combat the draining long hours in the library. It is that time of year when students look only for one thing when in search of food—proximity. And so they stationed themselves outside of the library in shifts to raise \$145 for us by selling brownies and other treats. A special thank you to Jim Betinol

realized that it is during finals that and the other students for their their fellow classmates would support! I guess lawyers aren't most want savory desserts and so bad after all!



Stanford African Students Association



The Stanford African Students Assoc is composed of students that grew up all over Africa from Ehtiopia to Ghana to Botswana to South Africa. These students understand the impact that BeeHive School is making in Mzuzu and are enthusiastic to help the school further.

These talented individuals understand what is takes to suc-

Menlo Park Block Parties

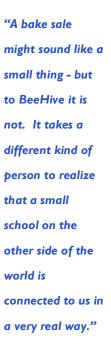
BeeHive School had a unique presence at the summer Menlo Park, California block parties. Block parties include a rich variety of music, food, children's activities, information booths for local organizations and corporations.

The BeeHive booth raised awareness about education in Africa. The BeeHive video, photos of the school, and architectural plans for the new building sparked interest in a number of people. We were really impressed that it was the kids who spent the most time looking over the photos and video and learning about Malawi and BeeHive.



ceed and not only have great ideas for BeeHive School, but serve as role models for all future BeeHive students hoping to pursue higher education.

During our first meeting, the group kindly donated funds towards the BeeHive School Project!





Above: A child is entranced by BeeHive School's video.

Left: Spencer Ahrens mans the BeeHive School booth.

Great North Run

Niall's old friend, Rene Dunlop, who first travelled with him to Malawi, also helped fundraise for BeeHive School.

Rene raised funds by running in the "Great North Run" in Newcastle upon Tyne, England.

It's amazing to see so many The Great people from all North Run in over the world Newcastle coming together upon Tyne, out of compas-England sion. They truly

understand the value that BeeHive provides to the community of Mzuzu and BeeHive's faculty and students.



Maureen and Stephan Dorey Host Smashing Dance Party!

Maureen and Stephan Dorey, Niall's parents, are great supporters of BeeHive and organized a Scottish Country Dance. The dance featured live music, a raffle, home -baked goodies, and flying feet. It was a night to remember!

I



Brook Knoll School

Katy Harrison's mother, Wendy Harrison, is a special education teacher at Brook Knoll Elementary School in Scotts Valley, California. Ever since starting the BeeHive



School website and USAbased fundraising effort. Wendy and her class have been

great supporters. Their enthuis intoxicating and has led many others to chip into their yearly book drives for Bee-Hive.

The class at Brook Knoll School has sent some of their favorite children stories to share with the BeeHive students. This is just another example of how connected BeeHive is with so many communities around the world. Niall and his students are always excited to receive books and truly treasure them.

On behalf of Niall, BeeHive's teachers and stusiasm and support for BeeHive dents, and the BeeHive PTA and community members, we thank Brook Knoll School for their generosity and kindness.



Financials-Our Goal: \$76,876.00

Where we are: \$4,341.68

What's left: \$72,534.32

BeeHive School is incredible -Niall Dorey, the headmaster and driving force behind the school, started BeeHive with eight students in the living room of his house in 2003. Five years later. the school has over 150 students and is a thriving center for learning, creativity, and personal growth. The teachers and students are committed to the goals of the school and are constantly striving to perform to their full

potential.

Former volunteers started a BeeHive School presence in the US over a year and a half ago after having visited the school in summer '06. They were deeply impressed by the school and its success despite the obvious resource challenges that the school deals with on a day to day basis. Ultimately, what it comes down to is that the US BeeHive School Project is not re-inventing the wheel with BeeHive School. A lot of school-based efforts fail because organizations or groups

build a schoolhouse without the necessary social infrastructure being there to really make the school valuable. BeeHive School already exists - it has all the necessary motivations, teachers, students, PTA, and curriculum, but lacks the necessary funds to expand and improve. We are giving the school the resources to reach its full potential. Please visit below for a detailed cost breakdown:

http://www.beehiveschool.com/ construction/cost.php

BeeHive School has all the necessary social infrastructure motivations, teachers, students. PTA. and curriculum but lacks the necessary

What Your Dollars Can Buy...

- (1) Why not donate \$20 to BeeHive School? \$20 will buy seven iron sheets for the new roof (27 are needed)
- (2) Why not donate \$50, which (5) \$12,000 will buy one will buy one metal door or window.
- (3) You could even donate \$250 to BeeHive school! \$250 will buy 52 pinboards, which will be used to display students' work.
- (4) Or are you are feeling really generous?! \$5,600 will build a bathroom block (2 needed).
 - brand new classroom. and we'll dedicate the classroom to you and put up a placard in your name or company name.



Donated books are much enjoyed

funds to expand and improve.

Good and Bad News From BeeHive - School Shut Down Temporarily

We'll give you the bad news first. BeeHive was inspected by a team from the Ministry of Education in the beginning of November of 2009—just a few weeks ago. The classrooms, which are temporary buildings, have been deemed to be "not up to code" and BeeHive has been shut down, at least temporarily. BeeHive School is not alone as there are over one hundred schools in Malawi that have been closed so far. Niall and the BeeHive students are not despairing because the parents are all strong supporters of the school and are doing everything possible to get it back up and running. However, now more than ever, it has been made glaringly obvious that BeeHive needs new classrooms.

Now for the good news, the same day that BeeHive was shut down, the school received a letter that they have been waiting for for three long years. This letter finally approves BeeHive's plans to build a new school on their new plot of land where they can expand and build a permanent school

that is safe, child-friendly and will last generations to come.



Good News—BeeHive's School New Building Plans Finally Approved After Three Long Years!



The Beehive School Project

1020 Florence Lane, Apt 8 Menlo Park, CA 94025 United States

Phone 1: 510-520-8966 (Katy Cell) Phone 2: 510-508-6804 (Eva Cell) E-mail: info@beehiveschool.com

Give Education, Give Hope

The Beehive School project is designed to help Beehive School. The school is an elementary school in Mzuzu, Malawi founded in 2003 with 8 students and now has over 150. The school is transforming the education system in Mzuzu, emerging as a model school with a strong academic core that uses an international pupil-centered curriculum within a Malawian context. BeeHive School is preparing leaders and innovators for tomorrow.

The Beehive School Project has five main goals to help Beehive School. These goals are to:

- (1) Raise funds towards the new buildings,
- (2) Outfit the school with a computer lab and internet,
- (3) Raise funds for community outreach,
- (4) Use sustainable practices in the new school,
- (5) Attract qualified volunteers that can build and teach at the school.



About Us

After graduating UC Berkeley in May 2006, Eva Markiewicz, Katy Harrison, and four other recent graduates spent a summer in Malawi. As well as site seeing, spending a few days at Lake Malawi and going on a safari, they taught science to children at local schools.

Beehive school stood out as a 'diamond in the rough' so to speak and with a little help, they feel this school will give children a great education and also help the area. When they came back to the US, they brainstormed ways to help the school. With the support of their friends, family, and even the aid of some kind strangers, they got a website up and running! Now the website is looking good, the second newsletter is out and the fundraising adventure is underway.



Please contact us if you would like to volunteer locally/ internationally or get involved with BeeHive in some other way.

ASAP Africa Relationship

BeeHive School Project, which operates primarily in Menlo Park, California is legally a partner with ASAP Africa. ASAP Africa is a 501 (C) 3 non-profit that has proiects in Zimbabwe and Malawi. They were founded in 1992 by a couple who met and married in the Peace Corps while in Swaziland working in rural African schools. The organization's goal is to, "create an organization whereby development projects and activities are not 'inflicted' upon local people, but truly spearheaded by capable members within those communities." ASAP Africa provides financial oversight for the BeeHive School Project and covers a

low, 5% fee for this assistance. Besides providing financial oversight, ASAP Africa is an experienced partner who can help us navigate the challenges ahead. To learn more about their laudable work, go to: www.asapafrica.org

BeeHive School Project is currently embarking on procuring its own non-profit status with the aid of volunteer Jim Betinol who recently passed his board exams—congratulations Jim!



The BeeHive School Project is currently initiating procurement of 501 (c) 3 nonprofit status



Assume: 140 MWK: 1 US Dollar

	CLASSROOM AND ADMIN	ISTRATIO	N BLC	СК		
ltem	CLASSROOMS & ADMINISTRATION BL	OCKUnit	Qty	Rate	Kwatcha	US (\$)
Substructure						
A	Excavate trench for strip footings	.m3	455	60	27,300	\$195.00
В	Backfilling of excavated material	m3	237	60	14,220	\$101.57
С	Dispersal of surplus	m3	218	60	13,080	\$93.43
D	Mass concrete in strip footing	m3	103	9,000	927,000	\$6,621.43
E F	100mm slab	m2	1286	900	1,157,400	\$8,267.14
	Damp proof membrane laid under slab	m2	1268	110	139,480	\$996.29
G	Hardcore under slab	m2	1136	180	204,480	\$1,460.57
н	50mm sand bed	m2	1136	50	56,800	\$405.71
J	Ant treatment	m2	1286	25	32,150	\$229.64
К	One brick wall in foundations	m2	501	950	475,950	\$3,399.64
Roof						
L	28 gauge corrugated iron sheets	m2	1550	475	736,250	\$5,258.93
M	600mm standard ridge capping	m	136	500	68,000	\$485.71
N	50 x 100mm purlins	m	1360	90	122,400	\$874.29
0	50 x 100mm struts	m	980	90	88,200	\$630.00
P	50 x 150mm rafters	m	1300	100	130,000	\$928.57
Q	50 x 150mm tie beam	m	1254	100	125,400	\$895.71
R	38 x 275mm fascia	m	275	250	68,750	\$491.07
S	Galvanised wire ties	-	228	50	11,400	\$81.43
TOTAL CARRIED	FORWARD				4,398,260	\$31,416.14
		OCKU-	044	Dete	Kuustaha	
ltem A	CLASSROOMS & ADMINISTRATION BL One brick wall incl. Brikforce	.m2	Qty 755	Rate 950	Kwatcha 717,250	US (\$) \$5,123.21
В	Half brick wall incl. Brikforce	.1112 m2	755 110	950 475	52,250	\$373.21
C	Damp proof course under walls	m	299	50	14,950	\$106.79
⊖ Windows and Do		111	233	50	14,350	φ100.73
D	Metal Door frame for one wall	_	17	5,500	93,500	\$667.86
E	Double Door frame for one wall	-	4	9,000	36,000	\$257.14
F	Metal Door frame for one wall	-	4	5,500	22,000	\$157.14
G	Metal window frames C7H 997x924mm	-	77	6,800	523600	\$3,740.00
H	Metal window frame C4H 1486x924mm	-	9	7.500	67,500	\$482.14
J	Metal window frame E1H 508x 629mm	-	5	3,250	16,250	\$116.07
ĸ	Std framed, ledged and braced door	-	20	6,500	130,000	\$928.57
L	Standard flush doors	-	9	3,500	31,500	\$225.00
м	2 lever mortice lock	-	9	1,850	16,650	\$118.93
N	3 lever mortice lock	-	20	2,500	50,000	\$357.14
0	Gloss paint to timber surfaces	m2	33	280	9,240	\$66.00
Р	Gloss paint to metal surfaces	m2	322	280	90,160	\$644.00
Q	Gloss paint to metal surfaces 2-300mm	m	149	95	14,155	\$101.11
R	Clear varnish to timber surfaces	m2	76	290	22,040	\$157.43
S	6mm clear glass fix to metal (incl putty)	m2	95	2,160	205,200	\$1,465.71
SUBTOTAL					2,112,245	\$15,087.46
Total carried forv	vard				6,510,505	\$46,503.61
ltem	CLASSROOMS & ADMINISTRATION BL		Qty	Rate	Kwatcha	US (\$)
A	30mm floor screed	.m2	981	250	245,250	\$1,751.79
В	Skirting	m	552	50	27,600	\$197.14
с	Cement and sand plaster	m2	1205	230	277,150	\$1,979.64
D	Cement/sand plaster to receive tiles	m2	20	230	4,600	\$32.86
E	12mm celotex ceiling board inc brander.	m2	981	1140	1,118,340	\$7,988.14
F	Cornice	m	552	50	27,600	\$197.14
G	PVA Paint to walls	m	1205	210	253,050	\$1,807.50
н	PVA Paint to ceilings	m2	981	180	176,580	\$1,261.29
J	External brick sealer to fair facing walls	m2	1350	250	337,500	\$2,410.71
К	Wall glazed tiles	m2	20	1920	38,400	\$274.29

L 15mm cement and sand blackboard m2 108 210 22,680 \$162.00 M 12mm celotex pinboards m2 52 728 37,856 \$270.40 N 100mm chalk rail m 90 120 10,800 \$77.14 O 25x50mm railing to pinboard edge m 133 40 5320 \$38.00 P 25x50mm railing to pinboard edge m 91 40 3,640 \$26.00 Q PVA paint to pinboards m2 52 210 10,920 \$78.00 R Blackboard paint m2 108 220 23,760 \$169.71 SUBTOTAL 2,632,314 \$18,802.24 Total carried forward 9,142,819 \$65,305.85 Item CLASSROOMS & ADMINISTRATION BLOCKUnit Cty Rate Kwatcha US (\$) Sanitary fittings - 4 20,000 80,000 \$271.43 A WC complete with accessories - 4 950 \$289.29 <	Joinery fittings						1
M 12mm celotex pinboards m2 52 728 37,856 \$270.40 N 100mm chalk rail m 90 120 10,800 \$77.14 O 25x50mm railing to blackboard edge m 91 40 5320 \$\$38.00 P 25x50mm railing to pinboards m2 52 210 10,920 \$\$78.00 R Blackboard paint m2 108 220 23,760 \$169.71 SUBTOTAL 2.632.314 \$18,802.24 2.632.314 \$18,802.24 Total carried forward 9,142,819 \$65,305.85 \$571.43 B Wash basin with accessories - 4 20,000 \$0,000 \$261.43 C Metal urinal - 1 40,500 40,500 \$289.29 D 12mm taps - 1 40,500 40,500 \$289.29 D 12mm taps - 1 40,500 \$40.00 \$47.14 F Gully trap - 4 950 3,800 \$27.14 F Gully trap	L	15mm cement and sand blackboard	m2	108	210	22,680	\$162.00
N 100mm chalk rail m 90 120 10,800 \$77.14 O 25x50mm railing to blackboard edge m 133 40 5320 \$38.00 P 25x50mm railing to pinboard edge m 91 40 3,640 \$26.00 Q PVA paint to pinboards m2 52 210 10,920 \$78.00 R Blackboard paint m2 108 220 23,760 \$169.71 S Clear varnish to all timber surfaces m 313 36 11.268 \$80.49 SUBTOTAL 2.632.314 \$18.802.24 \$18.802.24 \$18.802.24 \$18.802.24 Total carried forward 9,142,819 \$65,305.85 \$167.14 \$18.802.24 \$17.43 Sanitary fittings - 4 20,000 80,000 \$271.43 A WC complete with accessories - 4 20,000 80,000 \$281.43 C Metal urinal - 1 40,500 40,500 \$289.29	M	12mm celotex pinboards	m2	52	728	37,856	\$270.40
P 25x50mm railing to pinboard edge m 91 40 3,640 \$26.00 Q PVA paint to pinboards m2 52 210 10,920 \$78.00 R Blackboard paint m2 108 220 23,760 \$169.71 S Clear varnish to all timber surfaces m 313 31 21.268 \$80.49 SUBTOTAL 2,632,314 \$18,802.24 \$18,802.24 \$18,802.24 \$65,305.85 Item CLASSROOMS & ADMINISTRATION BLOCKUnit Qty Rate Kwatcha US (\$) Sanitary fittings - 4 20,000 80,000 \$571.43 A WC complete with accessories - 4 40,500 4261.43 C Metal urinal - 12 1,500 18,000 \$128.57 Waste Services - 12 1,600 6,400 \$45.71 G Guily trap - 4 160.00 \$75.00 \$17.86 J <td< td=""><td>N</td><td>•</td><td>m</td><td>90</td><td>120</td><td>10,800</td><td>\$77.14</td></td<>	N	•	m	90	120	10,800	\$77.14
P 25x50mm railing to pinboard edge m 91 40 3,640 \$26.00 Q PVA paint to pinboards m2 52 210 10,920 \$78.00 R Blackboard paint m2 108 220 23,760 \$169.71 S Clear varnish to all timber surfaces m 313 36 11,268 \$80.49 SUBTOTAL 2,632,314 \$18,802.24 9,142,819 \$65,305.85 Item CLASSROOMS & ADMINISTRATION BLOCKUnit Qty Rate Kwatcha US (\$) Sanitary fittings - 4 20,000 80,000 \$571.43 A WC complete with accessories - 4 40,500 40,500 \$288.29 D 12mm taps - 12 1,500 18,000 \$128.57 Waste Services - 4 950 3,800 \$27.14 F Guily trap - 4 1,600 6,400 \$45.71 G 50mm routere pipe	0	25x50mm railing to blackboard edge	m	133	40	5320	\$38.00
Q PVA paint to pinboards m2 52 210 10,920 \$78.00 R Blackboard paint m2 108 220 23,760 \$169.71 S Clear varnish to all timber surfaces m313 313 36 11,268 \$80.49 SUBTOTAL 2,632,314 \$18,802.24 \$18,802.24 \$18,802.24 \$18,802.24 Total carried forward 9,142,819 \$65,305.85 \$18,802.24 \$18,802.24 Sanitary fittings A WC complete with accessories - 4 20,000 \$0,000 \$571.43 B Wash basin with accessories - 6 6,100 36,600 \$261.43 C Metal urinal - 1 40,500 40,500 \$2289.29 D 12mm taps - 12 1,600 6,400 \$47.13 G Gully trap - 4 950 3,800 \$27.14 F Gully trap - 4 950 3,800 \$74.3 <td>Р</td> <td></td> <td>m</td> <td>91</td> <td>40</td> <td>3.640</td> <td>\$26.00</td>	Р		m	91	40	3.640	\$26.00
R Blackboard paint m2 108 220 23,760 \$169.71 S Clear varnish to all timber surfaces m 313 36 11,268 \$80.49 SUBTOTAL 2,632,314 \$18,802.24 2,632,314 \$18,802.24 Total carried forward 9,142,819 \$65,305.85 \$65,305.85 Item CLASSROOMS & ADMINISTRATION BLOCKUnit Qty Rate Kwatcha US (\$) Sanitary fittings M WC complete with accessories - 4 20,000 80,000 \$571.43 B Wash basin with accessories - 4 20,000 80,000 \$228.29 D 12mm taps - 12 1,500 18,000 \$128.57 Waste Services - 4 950 3,800 \$27.14 F Gully trap - 4 1,600 6,400 \$45.71 G 50mm PVC trap - 4 2,600 \$17.86 J 100mm diameter pipe m	Q	PVA paint to pinboards	m2	52	210	10,920	\$78.00
SUBTOTAL 2,632,314 \$18,802.24 Total carried forward 9,142,819 \$65,305.85 Item CLASSROOMS & ADMINISTRATION BLOCKUnit Qty Rate Kwatcha US (\$) Sanitary fittings A WC complete with accessories - 4 20,000 80,000 \$571.43 B Wash basin with accessories - 6 6,100 36,600 \$2261.43 C Metal urinal - 1 40,500 40,500 \$289.29 D 12mm taps - 12 1,500 18,000 \$128.57 Waste Services E WC connectors - 4 950 3,800 \$27.14 F Gully trap - 4 1,600 6,400 \$45.71 G 50mm PVC trap - 4 260 1,040 \$7.43 H 50mm diameter pipe m 30 350 10,500 \$75.00 K 300mm copper connector - 4 350		Blackboard paint	m2	108	220	23,760	\$169.71
Total carried forward 9,142,819 \$65,305.85 Item CLASSROOMS & ADMINISTRATION BLOCKUnit Qty Rate Kwatcha US (\$) Sanitary fittings A WC complete with accessories - 4 20,000 80,000 \$571.43 B Wash basin with accessories - 6 6,100 36,600 \$2281.43 C Metal urinal - 1 40,500 40,500 \$289.29 D 12mm taps - 12 1,500 18,000 \$128.57 Waste Services E WC connectors - 4 950 3,800 \$27.14 F Gully trap - 4 1,600 6,400 \$45.71 G 50mm PVC trap - 4 260 1,040 \$7.43 H 50mm diameter pipe m 30 350 10,500 \$75.00 K 300mm copper connector - 4 450 1,800 \$12.86 SUBTOTAL	S	Clear varnish to all timber surfaces	m	313	36	11,268	\$80.49
Item CLASSROOMS & ADMINISTRATION BLOCKUnit Qty Rate Kwatcha US (\$) Sanitary fittings A WC complete with accessories - 4 20,000 80,000 \$571.43 B Wash basin with accessories - 6 6,100 36,600 \$261.43 C Metal urinal - 1 40,500 40,500 \$289.29 D 12mm taps - 12 1,500 18,000 \$128.57 Waste Services E WC connectors - 4 950 3,800 \$27.14 F Gully trap - 4 1,600 6,400 \$45.71 G 50mm PVC trap - 4 1,600 6,400 \$47.73 H 50mm diameter pipe m 20 125 2,500 \$17.86 J 100mm diameter pipe m 30 350 10,500 \$75.00 K 300mm copper connector - 4 450 1,800	SUBTOTAL					2,632,314	\$18,802.24
Sanitary fittings - 4 20,000 80,000 \$571.43 A WC complete with accessories - 6 6,100 36,600 \$261.43 C Metal urinal - 1 40,500 40,500 \$289.29 D 12mm taps - 12 1,500 18,000 \$128.57 Waste Services - 1 40,600 6,400 \$42.7.14 F Gully trap - 4 1,600 6,400 \$42.7.14 F Gully trap - 4 1,600 6,400 \$45.71 G 50mm diameter pipe m 20 1,25 2,500 \$17.86 J 100mm diameter pipe m 30 350 10,500 \$75.00 K 300mm copper connector - 4 450 1,800 \$12.86 SUBTOTAL 202,540 \$1,446.71 202,540 \$1,446.71 Total carried forward 9,345,359 \$66,752.56 <tr< th=""><th>Total carried forw</th><th>vard</th><th></th><th></th><th></th><th>9,142,819</th><th>\$65,305.85</th></tr<>	Total carried forw	vard				9,142,819	\$65,305.85
Sanitary fittings - 4 20,000 80,000 \$571.43 A WC complete with accessories - 6 6,100 36,600 \$261.43 C Metal urinal - 1 40,500 40,500 \$289.29 D 12mm taps - 12 1,500 18,000 \$128.57 Waste Services - 1 40,600 6,400 \$42.7.14 F Gully trap - 4 1,600 6,400 \$42.7.14 F Gully trap - 4 1,600 6,400 \$45.71 G 50mm diameter pipe m 20 1,25 2,500 \$17.86 J 100mm diameter pipe m 30 350 10,500 \$75.00 K 300mm copper connector - 4 450 1,800 \$12.86 SUBTOTAL 202,540 \$1,446.71 202,540 \$1,446.71 Total carried forward 9,345,359 \$66,752.56 <tr< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr<>							
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C Metal urinal - 1 40,500 \$289.29 D 12mm taps - 12 1,500 18,000 \$128.57 Waste Services E WC connectors - 12 1,600 6,400 \$128.57 F Gully trap - 4 950 3,800 \$27.14 F Gully trap - 4 1,600 6,400 \$45.71 G 50mm diameter pipe m 20 125 2,500 \$17.86 J 100mm diameter pipe m 30 350 10,500 \$75.00 K 300mm copper connector - 4 450 1,800 \$12.86 SUBTOTAL 202,540 \$1,446.71 202,540 \$1,446.71 Total carried forward 9,345,359 \$66,752.56 U 200 \$354,000 \$2,528.57 Provisional Sums E 200,000 \$2,857.14 B Electrical installation 400,000 \$2,8		•	-	4	-,	,	\$571.43
D 12mm taps - 12 1,500 18,000 \$128.57 Waste Services E WC connectors - 4 950 3,800 \$27.14 F Gully trap - 4 1,600 6,400 \$45.71 G 50mm PVC trap - 4 260 1,040 \$7.43 H 50mm diameter pipe m 20 122 2,500 \$17.86 J 100mm diameter pipe m 30 350 10,500 \$75.00 K 300mm copper connector - 4 450 1,800 \$12.86 SUBTOTAL 202,540 \$1,446.71 202,540 \$1,446.71 Total carried forward 9,345,359 \$66,752.56 Utem CLASSROOMS & ADMINISTRATION BLOCKUnit Qty Rate Kwatcha US (\$) Drainage 3 400,000 \$2,857.14 \$2,857.14 A Bick lined drain incl. Slab covering m 295 1,200 354,000		Wash basin with accessories	-			,	
Waste Services - 4 950 3,800 \$27.14 F Gully trap - 4 1,600 6,400 \$45.71 G 50mm PVC trap - 4 260 1,040 \$7.43 H 50mm diameter pipe m 20 125 2,500 \$17.86 J 100mm diameter pipe m 30 350 10,500 \$75.00 K 300mm copper connector - 4 350 1,400 \$10.00 L 450mm copper connector - 4 450 1,800 \$12.86 SUBTOTAL 202,540 \$1,446.71 202,540 \$1,446.71 Total carried forward 9,345,359 \$66,752.56 \$1.446.71 Drainage A Brick lined drain incl. Slab covering m 295 1,200 354,000 \$2,528.57 Provisional Sums B Electrical installation 400,000 \$2,857.14 C All external and associated works 400,000 \$2,	С	Metal urinal	-		-,	40,500	\$289.29
E WC connectors - 4 950 3,800 \$27.14 F Gully trap - 4 1,600 6,400 \$45.71 G 50mm PVC trap - 4 260 1,040 \$7.43 H 50mm diameter pipe m 20 125 2,500 \$17.86 J 100mm diameter pipe m 30 350 10,500 \$75.00 K 300mm copper connector - 4 450 1,800 \$12.86 SUBTOTAL 202,540 \$1,446.71 202,540 \$1,446.71 Total carried forward 9,345,359 \$66,752.56 Item CLASSROOMS & ADMINISTRATION BLOCKUnit Qty Rate Kwatcha US (\$) Drainage A Brick lined drain incl. Slab covering m 295 1,200 354,000 \$2,528.57 Provisional Sums B Electrical installation 400,000 \$2,857.14 C All external and associated works 400,000 \$2,857.1	5	12mm taps	-	12	1,500	18,000	\$128.57
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K 300mm copper connector - 4 350 1,400 \$10.00 L 450mm copper connector - 4 450 1,800 \$12.86 SUBTOTAL 202,540 \$1,446.71 Total carried forward 9,345,359 \$66,752.56 Item CLASSROOMS & ADMINISTRATION BLOCKUnit Qty Rate Kwatcha US (\$) Drainage A Brick lined drain incl. Slab covering m 295 1,200 354,000 \$2,528.57 Provisional Sums B Electrical installation 400,000 \$2,857.14 C All external and associated works 400,000 \$2,857.14 D Water Reticulation 75,000 \$535.71 SUBTOTAL 1,229,000 \$8,778.57	н		m			2,500	\$17.86
L 450mm copper connector - 4 450 1,800 \$12.86 SUBTOTAL 202,540 \$1,446.71 Total carried forward 9,345,359 \$66,752.56 Item CLASSROOMS & ADMINISTRATION BLOCKUnit Qty Rate Kwatcha US (\$) Drainage A Brick lined drain incl. Slab covering m 295 1,200 354,000 \$2,528.57 Provisional Sums B Electrical installation 400,000 \$2,857.14 C All external and associated works 400,000 \$2,857.14 D Water Reticulation 75,000 \$535.71 SUBTOTAL 1,229,000 \$8,778.57	J		m	30		10,500	\$75.00
SUBTOTAL 202,540 \$1,446.71 Total carried forward 9,345,359 \$66,752.56 Item CLASSROOMS & ADMINISTRATION BLOCKUnit Qty Rate Kwatcha US (\$) Drainage A Brick lined drain incl. Slab covering m 295 1,200 354,000 \$2,528.57 Provisional Sums B Electrical installation 400,000 \$2,857.14 C All external and associated works 400,000 \$2,857.14 D Water Reticulation 75,000 \$535.71 SUBTOTAL 1,229,000 \$8,778.57	к		-	4			
Total carried forward 9,345,359 \$66,752.56 Item CLASSROOMS & ADMINISTRATION BLOCKUnit Qty Rate Kwatcha US (\$) Drainage A Brick lined drain incl. Slab covering m 295 1,200 354,000 \$2,528.57 Provisional Sums B Electrical installation 400,000 \$2,857.14 C All external and associated works 400,000 \$2,857.14 D Water Reticulation 75,000 \$535.71 SUBTOTAL 1,229,000 \$8,778.57	L	450mm copper connector	-	4	450	1,800	\$12.86
Item CLASSROOMS & ADMINISTRATION BLOCKUnit Qty Rate Kwatcha US (\$) Drainage A Brick lined drain incl. Slab covering m 295 1,200 354,000 \$2,528.57 Provisional Sums B Electrical installation 400,000 \$2,857.14 C All external and associated works 400,000 \$2,857.14 D Water Reticulation 75,000 \$535.71 SUBTOTAL 1,229,000 \$8,778.57	SUBTOTAL					202,540	\$1,446.71
Drainage A Brick lined drain incl. Slab covering m 295 1,200 354,000 \$2,528.57 Provisional Sums B Electrical installation 400,000 \$2,857.14 C All external and associated works 400,000 \$2,857.14 D Water Reticulation 75,000 \$535.71 SUBTOTAL 1,229,000 \$8,778.57	Total carried forw	vard				9,345,359	\$66,752.56
Drainage A Brick lined drain incl. Slab covering m 295 1,200 354,000 \$2,528.57 Provisional Sums B Electrical installation 400,000 \$2,857.14 C All external and associated works 400,000 \$2,857.14 D Water Reticulation 75,000 \$535.71 SUBTOTAL 1,229,000 \$8,778.57	ltem	CLASSBOOMS & ADMINISTRATION BI	OCKUpit	Otv	Rate	Kwatcha	115 (\$)
A Brick lined drain incl. Slab covering m 295 1,200 354,000 \$2,528.57 Provisional Sums B Electrical installation 400,000 \$2,857.14 C All external and associated works 400,000 \$2,857.14 D Water Reticulation 75,000 \$535.71 SUBTOTAL 1,229,000 \$8,778.57		CLACONO & ADMINIS MATION BL	SSROIII	ary	Nate	watcha	03 (ψ)
Provisional Sums 400,000 \$2,857.14 B Electrical installation 400,000 \$2,857.14 C All external and associated works 400,000 \$2,857.14 D Water Reticulation 75,000 \$535.71 SUBTOTAL 1,229,000 \$8,778.57	•	Brick lined drain incl. Slab covering	m	295	1,200	354,000	\$2,528.57
B Electrical installation 400,000 \$2,857.14 C All external and associated works 400,000 \$2,857.14 D Water Reticulation 75,000 \$535.71 SUBTOTAL 1,229,000 \$8,778.57		· · ·			,	,	
C All external and associated works 400,000 \$2,857.14 D Water Reticulation 75,000 \$535.71 SUBTOTAL 1,229,000 \$8,778.57		-				400,000	\$2,857.14
D Water Reticulation 75,000 \$535.71 SUBTOTAL 1,229,000 \$8,778.57		All external and associated works				,	. ,
SUBTOTAL 1,229,000 \$8,778.57						,	. ,
, , · · ,	SUBTOTAL						
	Total carried to S	ummary				, ,	

	ABLUTION B	LOCK				
ltem	CLASSROOMS & ADMINISTRATION BL	OCKUnit	Qty	Rate	Kwatcha	US (\$)
Substructure						
A	Excavate trench for strip footings	.m3	23	60	1,380	\$9.86
В	Backfilling of excavated materials	m3	12	60	720	\$5.14
С	Dispersal of surplus excavated material	m3	11	60	660	\$4.71
	Mass concrete in strip footing	m3	5	9,000	45,000	\$321.43
D E F	100mm slab	m2	43	900	38,700	\$276.43
F	Damp proof membrane under slab	m2	43	110	4,730	\$33.79
G	Hardcore under slab	m2	38	180	6,840	\$48.86
н	One brick wall	m2	23	900	20,700	\$147.86
J	50mm sand bed	m2	38	50	1,900	\$13.57
к	Ant treatment	m2	43	25	1,075	\$7.68
Roof						
L	28 gauge corrugated iron sheets	m2	53	900	47,700	\$340.71
М	50x150mm rafters	m	48	90	4,320	\$30.86
N	38x275mm fascia	m	22	250	5,500	\$39.29
0	Galvanised wire ties	-	10	50	500	\$3.57
Walls						
Р	One brick wall incl. Brikforce	m2	82	950	77,900	\$556.43
Q	Half brick wall incl. Brikforce	m2	15	475	7,125	\$50.89
R	Damp proof course	m	33	50	1,650	\$11.79
SUBTOTAL					266,400	\$1,902.86
GRAND TOTAL (Subtotal * 2)				11,107,159	\$79,336.85
ltem	ABLUTION BLOCK	Unit	Qty	Rate	Kwatcha	US (\$)
Windows and Do						
A	Metal window frames E1H 508x629mm	-	9	3,250	29,250	\$208.93
В	Metal window frame ES2H 997x629mm	-	4	7,200	28,800	\$205.71
С	Std framed, ledged and braced door	-	2	6,500	13,000	\$92.86
D	Std flush door	-	8	3,500	28,000	\$200.00
D E F	2 lever mortice lock	-	8	1,850	14,800	\$105.71
	3 lever mortice lock	-	2	2,500	5,000	\$35.71
G	Metal door frame for one brick wall	-	2	5,500	11,000	\$78.57
н	Metal door frame for half brick wall	-	8	4,200	33,600	\$240.00
J	Gloss paint to timber surfaces	m2	26	280	7,280	\$52.00
к	Gloss paint to metal surfaces	m2	10	290	2,900	\$20.71

L	6mm clear glass fix to metal with putty	m2	6	2,160	12,960	\$92.57
Floor, Wall and Ceiling Finishes						
М	30mm floor screed	m2	37	250	9,250	\$66.07
N	Skirting	m	85	50	4,250	\$30.36
0	Cement and sand plaster	m2	119	230	27,370	\$195.50
Р	Cement and sand plaster to receive tiles	m2	5	230	1,150	\$8.21
Q	Gloss paint to walls	m2	119	280	33,320	\$238.00
SUBTOTAL					261,930	\$1,870.93
ABLUTION	TOTAL				528,330	\$3,773.79
GRAND TO	TAL (Subtotal * 2)				11,631,019	\$83,078.71
ltem	ABLUTION BLOCK	Unit	Qty	Rate	Kwatcha	US (\$)
Sanitary fit	•					
А	WC complete with accessories	-	8	20,000	160,000	\$1,142.86
В	Wash hand basin plus accessories	-	6	6,100	36,600	\$261.43
С	Toilet roll holders	-	8	1,520	12,160	\$86.86
D	12mm taps	-	12	1,500	18,000	\$128.57
Waste Serv	vices					
E F	WC Connectors	-	8	950	7,600	\$54.29
F	Gully trap	-	4	1,600	6,400	\$45.71
G	50mm PVC trap	-	6	260	1,560	\$11.14
н	50mm diameter pipe	m	20	125	2,500	\$17.86
J	100mm diameter pipe	m	30	350	10,500	\$75.00
к	300mm copper connector	-	6	350	2,100	\$15.00
L	450mm copper connector	-	8	450	3,600	\$25.71
SUBTOTAL					261,020	\$1,864.43
ABLUTION	TOTAL				789,350	\$5,638.21
ABLUTION	TOTAL (Qty: 2)				1,578,700	\$11,276.43
GRAND TOTAL (Subtotal * 2)					12,153,059	\$86,807.56
					Kunstaha	
SUMMARY CLASSROOM & ADMINISTRATION BLOCK			Kwatcha	US (\$)		
ABLUTION BLOCKS (x2)			10,574,359	\$75,531.14 \$11,276.43		
Plus: Preliminaries and General Items			1,578,700 1,336,836.49	\$9,548.83		
Plus: 10% Contingencies					1,336,636.49	\$9,546.63
	NSTRUCTION COST				14,838,885.04	
					14,030,885.04	φ105,992.04

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