

PROJECT OVERVIEW

<u>Project Title</u>	Borewells for schools in Embu County, Kenya (Give reliable fresh water to 2,500 Kenyan children)
<u>Project Summary</u>	<p>The project will provide reliable, fresh, free water for schools in Embu County, Kenya by constructing borewells to remove their dependence on increasingly unreliable rainwater and expensive mains water that is only available intermittently.</p> <p>Completed borewells will be self-sustaining. They are built using very low-cost local labour which can maintain them into the future. They are not reliant on expensive, complex equipment installed by specialists.</p> <p>Schools will save money by eliminating the need to purchase expensive mains water, allowing them to save for future maintenance demands.</p> <p>Phase 1 of the project to provide a borewell for Ciamanda Primary school is complete. This confirmed cost estimates and demonstrated project feasibility - constructing a borewell using local labour and materials at a very low cost.</p> <p>We plan to provide borewells for at least a further seven schools</p> <p>The Rotary Club of Billericay is partnered in this project by our linked Rotary Clubs of Beausoleil (France), Alba (Italy), Ovada del Centenario (Italy), Karlshamn (Sweden) and Basildon (UK), plus the Rotary Club of Embu, Kenya, which has monitored the implementation of the pilot borewell and helped select the next seven schools. (Our six linked Rotary Clubs in Europe form a “Double Triangular” partnership which progresses joint projects and promotes mutual fellowship.)</p>
<u>Project Location</u>	<p>Embu County, Kenya</p> <ul style="list-style-type: none"> • Ciamanda Primary School • Ena Primary School • St Paul's Magaca Primary School • Canon Herbert Ikuura Primary School • Nyagari Primary School • Kathari Primary School • Karungu Primary School • Kathanjuri Primary School
<u>Community Need</u>	<p><u>What is the Need?</u></p> <p>Provide reliable supplies of fresh free water to schools in Embu County, Kenya, to remove their dependence on increasingly unreliable rainwater and expensive mains water supply that is only available intermittently.</p> <p>The water is needed for:</p> <ul style="list-style-type: none"> • Drinking. The existing mains water supply is often only available for an hour or two per day • Watering of crops grown by the school community, used to feed children who otherwise would not have a regular daily meal. Surplus crops are sold to bring extra income to the school • Cleaning of the school

How was the need identified?

a) Why Embu?

The growing partnership between Embu and Billericay began in 2007 with a joint partnership between Ciamanda Primary School / St Francis Church in Embu County and Buttsbury Junior School / Christ Church in Billericay. There are regular reciprocal visits between the UK and Kenyan schools/churches and our Club member (and vicar of Christ Church), Rtn Rev Margaret Fowler, has visited Ciamanda most years for more than the last decade.

In that time Ciamanda school has been helped with a number of projects, funded through the Christ Church congregation, Buttsbury Junior and Infant school parents, Rev Margaret's ex-employer, donations from individuals, and the Rotary Club of Billericay.

Our Club's last project funded the refurbishment of the school's reception classrooms, using money raised at our Soapbox Derby in 2018.

The local Diocese of Embu and, in particular, the Bishop of Embu, as well as the local County Administration, have taken a special interest in this project and the schools to benefit from the project. This includes the Diocesan Education Secretary, Dr Jackson Ngari, the Chairman of the Board of Education in the Diocese, the County Chief Executive Officer of Education, the County Director of Education and other local dignitaries.

b) Why borewells?

Following completion of the reception classroom refurbishment, Mrs Lucy Mbogo (the Headteacher of Ciamanda Primary School) and her leadership team identified an urgent need to have a reliable water supply. As chairman of the Embu Diocese Headteachers' Association she knew that many other schools had a similar need.

From previous experience and knowledge of borewells in other locations she knew that a borewell would be a cost-effective, sustainable way of providing a clean, reliable water supply. She was able to recommend this approach and source estimates for the construction costs.

Our International chairman, Rtn Malcolm Acors, and Rtn. Rev. Margaret Fowler, worked with Lucy and the Rotary Club of Embu, and identified seven additional schools that would equally benefit from having reliable supplies of fresh free water from their own borewell. Local officials, in particular the Embu Diocese Education Secretary Dr Jackson Ngari was then consulted on the sequence in which the wells should be dug to ensure the most needy schools were helped first.

Our club decided to construct a borewell at Ciamanda school as a pilot project to verify feasibility and the budget estimate.

The Headteacher identified local workmen to do the work, the local Rotary Club of Embu was enlisted to provide local oversight of the work as it progressed, and Rtn. Rev. Margaret Fowler monitored progress remotely before visiting the site in October 2019, shortly before commencement of construction the following month.

This borewell is now complete. It confirmed the cost estimates and demonstrated project feasibility - constructing a borewell using local labour and materials at a very low cost.

Where Next?

Our partner clubs in Europe have provided donations to the project and we have been allocated a grant from Rotary District 1240.

The remaining funding needed to complete all eight borewells is being sought through the

	<p>GlobalGiving crowdfunding platform. We are participating in their 'Giving Season Accelerator' programme which runs from 1st to 31st December.</p> <p>The Rotary Club of Embu remains our partner for local advice, and for oversight of future work as it progresses. As at mid-November 2020 we are preparing to transfer funds to them to allow work to start on the next two wells (Ena Primary School and St Paul's Magaca Primary School)</p>
<u>Beneficiaries</u>	<p><u>Who will benefit?</u></p> <p>a) Pupils Having a constant fresh water supply at the school means that the pupils will no longer have to walk to a local river to bring back possibly polluted water for drinking, watering crops and cleaning. They will be less tired and so better able to concentrate on their school work. The average school size is about 300 pupils, meaning that <u>about 2,400 children will benefit</u> from this project</p> <p>b) The school With its own water supply, the school will not have to pay for scarce piped water, freeing funds for spending on other priorities. Water will be available for growing crops used to provide meals for the poorer children.</p> <p>c) The wider community The construction of the borewells will provide employment to local workers and its regular maintenance will provide ongoing work too. In Ciamanda, a permanent employment position has been created to tend the crops made possible by the new well, and similar effects should be seen in all the other locations.</p>
<u>Project Duration</u>	<p>Project start date: 20th September 2019</p> <p>Phase 1 – Feasibility & pilot borewell (Completed)</p> <ul style="list-style-type: none"> • Sep 2019: Cost estimate provided • Oct 2019: Linked Double Triangular Rotary clubs agree to join us in funding this project • Nov 2019: RC Embu agree to partner with us and help identify further schools • Nov 2019: Funds for pilot borewell transferred • Dec 2019: Ciamanda borewell (Pilot) completed <p>Phase 2 – Secure funding and provide further borewells</p> <ul style="list-style-type: none"> • 30th Sep 2020: District Grant application • October 2020: Linked Double Triangular Rotary clubs commit funds (\$6,300) • November 2020: Transfer funds from Double Triangular clubs to RC Embu and commence next two borewells • November 2020: District Grant confirmed • 1st-31st Dec 2020: Crowdfunding campaign • Early 2020: Construct remaining borewells with crowdfunding and District Grant funds <p>Phase 3 (If more funds raised than budget)</p> <ul style="list-style-type: none"> • Lucy Mbogo (Chairman of the Embu Diocese Headteachers' Association) and the Rotary Club of Embu will identify further schools • Provide further borewells <p>Project completion date: 30 Jun 2021 or earlier.</p>

<p><u>Project Partners</u></p>	<p>‘Double Triangular’ Rotary Clubs Rotary Club of Embu, Kenya Buttsbury Junior School Christ Church, Billericay</p> <ul style="list-style-type: none"> Buttsbury Juniors and Christ Church set up the original partnership with Ciamanda Primary School One of our RotaKids clubs is at Buttsbury Juniors 										
<p><u>Project Budget</u></p>	<p>Phase 1: (Pilot Borewell - Completed)</p> <table border="1" data-bbox="339 488 1243 584"> <tr> <td>Rotary Club of Billericay’s contribution to project</td><td>£2,500</td></tr> </table> <p>Phase 2: (Seven more Borewells)</p> <table border="1" data-bbox="339 674 1243 875"> <tr> <td>Crowdfunding</td><td>£7,750</td></tr> <tr> <td>‘Double Triangular’ Rotary Clubs’ contributions</td><td>£5,000 (from five other European Rotary Clubs)</td></tr> <tr> <td>District Grant allocated</td><td>£3,500</td></tr> </table> <table border="1" data-bbox="339 943 1243 1084"> <tr> <td>Project’s Total estimated Budget (Phases 1 & 2)</td><td>£18,750 (Equates to approx. \$24,000 = 8 wells @ \$3,000 per well)</td></tr> </table> <p>Phase 3: (depending on funds raised) If the Crowdfunding campaign produces more than £7,750 we will construct additional wells.</p>	Rotary Club of Billericay’s contribution to project	£2,500	Crowdfunding	£7,750	‘Double Triangular’ Rotary Clubs’ contributions	£5,000 (from five other European Rotary Clubs)	District Grant allocated	£3,500	Project’s Total estimated Budget (Phases 1 & 2)	£18,750 (Equates to approx. \$24,000 = 8 wells @ \$3,000 per well)
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