



***Newsletter No.104***  
**November 2016**

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## **ABOUT CED**

Christian Engineers in Development (CED) is a Christian professional consultancy service dedicated to development work with overseas communities, and through service, to witness to the Christian Faith. Operations usually comprise a tri-partite arrangement between a developing country organisation, a funding agency and CED providing technical assistance. CED responds to requests for assistance, improved water supply being the most frequent request, but by no means the only one. CED promotes self-help with the maximum use of local resources.

CED's services include site visits, feasibility studies, assistance with project proposals, design, contract documents, procurement, tender evaluation, project supervision, direct labour employment, on-the-job training of local staff, project monitoring and evaluation, assistance with fund-raising and the management of project funding.

CED's income comes primarily from grants for projects together with donations from Churches, Trusts, Members and Supporters, and membership subscriptions. Most of the expenditure goes to operations, and management costs are kept as low as possible. CED is not a funding agency and therefore cannot directly fund major projects, but it can, and often does, fund preliminary investigations for potential projects.

The Association is registered as a Company Limited by Guarantee (without shares) and being a non-profit organisation, it is registered as a Charity. It is managed by a Board of Directors/Trustees, elected from the membership, giving their services voluntarily. The Board appoints a Secretary and a Treasurer. CED Members participate in the work of the Association either voluntarily or if they depend on earnings for their livelihood on negotiated payment for their services.

Membership of CED is open to any person who is professionally qualified, supports the Aims, accepts the Statement of Faith, supports the activities of CED in any way, or serves as an employee or volunteer, both in the UK and overseas. Membership requires an act of commitment and usually an annual subscription. Becoming a Supporter of CED is open to any person or group that supports the Aims, and wishes to be kept informed of CED matters.

Anyone wishing to become a Member or Supporter should contact the Secretary. An application to be a Member should be supported by an existing Member or Pastor.

## **Newsletter**

The Newsletter is published twice annually. We'd be delighted to provide additional copies for friends, colleagues, church book stands, etc. Please contact [chair@ced.org.uk](mailto:chair@ced.org.uk) and let us know how many you'd like.

The editor would be happy to receive contributions for the next Newsletter. Please send to [ian@ced.org.uk](mailto:ian@ced.org.uk)

## **PrayerPoints**

Copies of our monthly prayer bulletin are available by email or post. Please request a copy by email to [ian@ced.org.uk](mailto:ian@ced.org.uk) or by writing to the Secretary.



## *From the Chair*

Welcome to the latest edition of CED's newsletter. I hope you will find the articles and reports interesting. They cover a variety of projects from a number of different countries. One key step for CED in recent months has been the CED Directors' Retreat, in which we sought God's will for the future direction and focus of our organisation. During the retreat we determined (or confirmed) our purpose and values. We agreed that ***“CED exists to demonstrate the love of Christ by enabling Christians with engineering and allied skills to help the poorest communities overseas”***. Our values were:

*Volunteer-based; Professional; Faithful; Partnering; Demonstrating Integrity; and Demonstrating Impartiality.* We also developed a draft vision for the next four to five years, which focussed on increasing our effectiveness in changing lives – through a number of key focus areas, including enabling our members' activities. The Directors have had some exciting ideas about how we can develop the organisation, including through training and mentoring; and through the use of appropriate technologies. We will be meeting again on 24th November to finalise the vision and the key focus areas. Watch this space! Please do get in touch with me if you have any thoughts that might help us as we develop what we think are God's plans; to more effectively demonstrate the love of Christ by helping the poorest communities overseas.

Thank you for your support and engagement with the work of CED. May the Lord richly bless you,

*Mike Beresford*



*“If your enemy is... thirsty, give him something to drink”.*  
(Ro12:20).

Local Christians are concerned that visiting preachers to the mosques are increasingly teaching distrust. One response is to reach out to Muslim neighbours and demonstrate Jesus' love in a practical way. See p.11.

## ***CED AGM and Open Day, Inverness.***

We were welcomed to the beautiful new Inshes Church by Rob and his team with refreshments. Worship was natural in this setting and ably led by Jonathan who had chosen some favourite hymns, sung with enthusiasm with Rob's accompaniment.

Dr. John Ross immediately grabbed my attention as I had also had an experience of being bitten by a dog in Nigeria, with rabies as a possibility. He attacked the still prevalent notion in the church of the supremacy of sacred over secular against the Bible's unified view. Our western culture however relegates spiritual to private matters, whereas Africans are more holistic. He told us of the King William's Town museum which has a section on Mission. This had details of the founding fathers (men in their twenties, making decisions which last till today!!) who were diligent about irrigation channels and waggons. Jesus spoke of faith in small things being a qualifier for responsibility in big matters.

Mike Beresford recommended the book "When Helping Hurts" by Fikkert and Corbett.

Updates on CED's work included a report that Rwentamu's valley tank is now in the design and fund-raising stage and that an engineer is being sought for water and sanitation work in Sierra Leone, following civil war. Alan Michel outlined project options in Ruanda with Faith-Centred Ministries and with our partner RHEPI;



*Braentra hydro scheme.*

these include water harvesting and solar lighting.

An excellent lunch gave us opportunity to chat with folk we don't often meet, followed by 3 Workshops, of which we could choose to take part in two.

Ian led on the Website update, guiding us on how to access the members area. Subsequent emails from Ian are to help more people and encourage participation.

Jonathan told us about Hydropower details as an option for village communities. There is a Load Evaluation form available on the Internet which enables needs to be estimated. A hospital needs a steady rate, day and night, whereas if the national grid is to provide income, the output may fluctuate.

Coanda screens allow most particles to wash over and continue with the stream while entrapping clean water. This saves work for filters.

There are four options of turbine types, while for low heads a propeller or Archimedes Screw may be best choice.

Kisiizi Falls hospital in Uganda has 2 hydro power units using a good stream and a steep slope. Members considered



*Braentra hydro scheme.*

Sustainable Development Goals at the invitation of its medical superintendent to brainstorm ideas for a technical exhibition with a focus on renewable energy technologies.

Our AGM approved the re-election of Michael, Barbara and Roger as directors and the retention of Edwin Smith as Reporting Accountant. Bill reported on the good state of our funds, which are sufficient to enable initial stages of new projects till grant funding is secured.

In beautiful sunshine we were taken to the The Braeantra Hydro Scheme being built by Jonathan's firm. Set in lovely moorland, this has an intake from a stream off the

hills which has a Coanda screen as mentioned at the Workshop; it is 1500mm wide. The drive pipe runs under the path down to a 96kW Pelton turbine, operating on a head of 130m and a max flow of 98l/s. Outturn cost in the region of £680k.

The day was rounded off with conversation over a meal at the Cawdor Tavern.

*Alan Chadborn.*



## ***Cheap software for CED use***

CED has an arrangement with an organisation called tt exchange (tt stands for Technology Transfer) who provide low-cost software to charities. This would allow anyone who uses certain software for CED purposes to buy it at greatly reduced prices through CED's account with tt exchange. For example, Microsoft Office is available for £32 +VAT. Popular software

from companies like Bitdefender, Citrix, Microsoft and Symantec are available. Full details are available at <https://www.tt-exchange.org/>.

If you would like further details of how to purchase the software please get in touch with Mike Beresford at [chair@ced.org.uk](mailto:chair@ced.org.uk).

*Mike Beresford*

## ***Website resources***

The CED website revamp launched at our Open Day. Please take time to have a look. We're delighted that the site more easily enables members to access technical information and supporters have access to more pictures. There is a link to the CED Facebook page. Thanks to Tim Wakeling web designer for great work.

If you have not already done so please fill

out a short bio... we promise not to sell your details! If you have yet to access the Members' Area please email [ian@ced.org.uk](mailto:ian@ced.org.uk) for a password.

We are now looking at the content and hope to have this updated for Christmas.

*Ian Rankin.*

# Communities moving forwards

## Notes from the Project Coordinator:

We are currently looking into a number of interesting potential projects:

### Zanzibar

Feasibility Stage. In association with the Anglican Diocese in Zanzibar, we hope to be able to assist with the design of water and sanitation interventions at two locations in Zanzibar.

### Tanzania

Feasibility Stage. In association with Kwa Pamoja we plan to send a couple of CED engineers to the Chato district of Tanzania, to assess the potential for several water supply interventions in partnership with the local government water authority. We hope to make the trip in January 2017.

### Rwanda

Outline Design Stage. In association with Faith Centred Ministries, CED hope to carry out design work for a water supply at Mayenge Village.

### Uganda

Detailed Design Stage. We hope to be able to carry out the detailed design of a large water storage reservoir at Rwentamu, subject to agreement being reached with our prospective partner.

### Sierra Leone

Feasibility Stage. Practical Tools Initiative have asked CED to undertake a feasibility study at five schools in the south-east of the country which have been selected for a potential water and sanitation project. The schools are in the area around

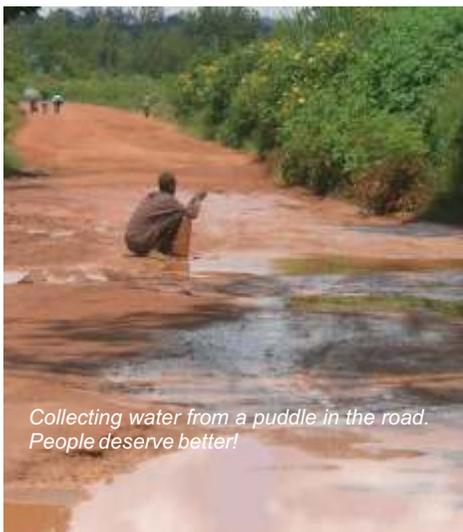
Kenema, on the edge of small towns with populations of about 5,000 people. The plan is to drill a borehole on each of the school compounds and fit an India Mark II pump with the water being for the use of the whole community. We hope to complete the feasibility study in the next few months.

### Pakistan

A project proposal for a further project in the Thar Desert with our partners Participatory Village Development Programme (PVDP) has been hammered out (a big thanks to Ian Rankin and Colin Gibson for their work on this), and we now face the challenge of seeking funding for this project.

So there is plenty going on – but always room for more leads and ideas. Please contact me if you become aware of situations in which CED can be of assistance.

*Jonathan Appleby, Project Coordinator.*



*Collecting water from a puddle in the road.  
People deserve better!*

## Rwentamu, South West Uganda

Rwentamu is a village in South West Uganda with a population of about 2,000. There is a deep borehole in the village but unfortunately the high mineral content in the water makes it unpalatable. The community are therefore forced to get their water from dirty and contaminated open ponds. Rwentamu was identified by the Church of Uganda Diocese of North Ankole as one of the most water-stressed in their region. CED has made three visits to the village to try to resolve a design problem. The original plan was to install a “charco-cum-valley” tank near the trading centre and Church of Uganda church and school. This type of storage reservoir collects water from the upstream valley catchment area in a settlement reservoir; this is connected to a storage water reservoir with adjacent shallow well and handpump for community use. A separate cattle trough can also be installed. A vital part of the design is the incorporation of a spillway – this allows flood water to pass safely by the reservoir when it is full, thereby avoiding the risk of overflow and partial or total loss of the reservoir earth bund walls. The size of the spillway depends on the size of the catchment area and other factors such as the valley vegetation and likely rainfall. The problem at Rwentamu was that the ideal location

had a very large catchment area (approximately 20km<sup>2</sup>): in normal circumstances it would be considered too large for the design of CED's typical “charco-cum-valley” tank design. Nonetheless, during Nigel Heeler, Jonathan Appleby and Mike Beresford's visit to Uganda in May this year, with Philip Tibenderana's help, they seem to have resolved the design concern. The valley of Rwentamu appears to have unusual topography. The valleys are broad and grassy with flat bottoms; there is no evidence of stream flows at any point. The climate is generally arid with infrequent significant storm events. The group observed two existing dams with catchment areas that would normally be considered easily large enough for a valley tank (5 - 6km<sup>2</sup>) – yet the reservoirs behind the dams were almost completely dry. The observation is that significant storm flows rarely occur, and when they do they are likely to be localised. This has meant that CED's part-time Ugandan engineer Philip Tibenderana can now complete the site survey in the preferred location and arrange for completion of the detailed design. Funding applications are now being prepared. CED's aim is to complete the project by the end of 2017.

*Mike Beresford*



*Rwentamu, panorama*



*Colin and Arjun discuss pit latrines*



*Arjun inspects a pit latrine.*

## **Sanitation in Sindh**

Following the success of the Scottish Government funded project that finished in March, PVDP and CED committed to continue to work together for a further 6 months to address local sanitation issues. Several NGOs have built pilot projects but latrine pits in the sandy soil were lined with bricks or blocks and were expensive to replicate. There was no continuation. CED proposed a pit based on a cement lined chamber similar to water cisterns but perforated. The idea was developed through prototypes at schools then latrines were introduced in 20 villages, the schools being responsible for the

superstructure. Already some of the children have persuaded their families to build new latrines. The concept of children as ambassadors for hygiene is working.

Washing hands with little or no water is a challenge and we introduced a simple design of tippy tap as promoted by Tearfund.

The £11,000 budget for the project, met by gifts to CED, gave us space to formulate a bigger project to help 60 further villages. This new 3 year project will cost in excess of £160,000 (£ to rupee rate is weak just now). Please pray that we will find



*"No cost" tippy tap. Hand washing with very little water.*



*Serafeen inspects a Nadi filter... these will be promoted in the new project too.*

sympathetic trusts willing to fund it. The previous project demonstrated that improving water and sanitation saves lives.

That is changing just now as huge mining conglomerates try to work out how to exploit vast reserves of coal. Talk of underground gassification has given way to removing an overburden of 200m of sand for open cast mining. Massive contracts are being agreed with Chinese companies. Already some villages have been moved, the villagers being given compensation payments but no real support. The exploitation of coal reserves will have a huge impact on the region and PVDP are keen to support local people to cope with change.

*Ian Rankin.*



*Serafeen inspects a Nadi filter... these will be promoted in the new project too.*

## **Harchand's story**

"I am Harchand s/o Narumal, I belong to village Mansigh Bheel, East of Islamkot. We depend on agriculture and livestock. There is a school in our village supported by National Commission Humanitarian Development Organization (NCHD) who support one teacher salary and some books. There were no sanitation or water facilities in our school when PVDP came in our village and conducted a meeting with us where they introduced themselves and their organization and then briefed us about WASH Committee. We agreed with them and set up a WASH Committee of seven members. The PVDP team visited regularly throughout project period, and conducted meetings and health & hygiene sessions with the community & school children. As a teacher I participated in training on hygiene education at PVDP office Islamkot. PVDP has provided us with a pit latrine along with a water tank, bio-sand filter and tippy tap for hand washing.

Having WASH facilities in our school means students are interested to attend on a regular basis, and school enrollment is beginning to increase. Students are using pit latrine along with tippy tap in preference to open defecation. Three children persuaded their parents to construct pit latrines in their homes and others are following, installing tippy taps too. We are all, community, WASH committee and School Management Committee, heartily thankful to PVDP and CED for supporting us in such an inconceivable WASH facility in our school."

*interview by  
Serafeen, outreach worker, PVDP*

## Majahida Strikes Water!

Goodness, that was a struggle! My feelings regarding the Majahida Bible College water supply. When their solar pump gave up in 2012 the water table was reducing so CED recommended a new borewell. When drilling failed to find water in 2014 the college arranged another survey and from this CED proposed a new site near the existing shallow well which had the advantage of being near the existing building and pipeline. A year ago, after quotes were received, the contract was let. However, the driller still had not mobilized when Mike and I booked flights in July. He finally arrived and struck water at the end of the month. There followed negotiations with Davis and Shirtliff pump suppliers who installed the pump during our visit in August.

Mike comments: "a new 105m deep borehole well was successfully drilled and a limited drawdown test conducted. This suggested that a flow rate of about 1500l/hour was achievable with a draw down to 70m, with pump at installation depth of 80m.

The water was tested by the local water authority and authorised for domestic use.

Because the pump would have intermittent use a Grundfos SQF 2.5-2 pump was selected. This has the ability to operate over a wide voltage range and so allows both solar and mains/generator power.

On Saturday 27th August the supplier started the system and the local staff were instructed in its operation. The following day pumping was started and two major



*For the past several years the college and community have had to carry / bicycle / cart water from various sources.*

leaks discovered and "repaired" The pipeline was still disconnected from the main tank and filled to flush it out. Although we had advised that this water should go to waste the locals were not prepared to do this - everyone came and every storage container was filled!! Not our intension but water is expensive!!!....

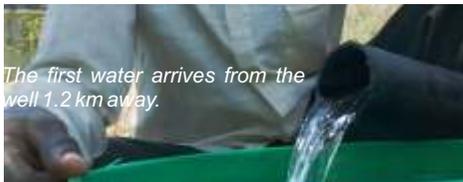
On Monday 29th we returned and the pump restarted. It was operated on both generator and solar mode (the old solar panels had some life left in them but when used the flow was less than half the pump's capacity).

We also visited the well and generator house: it was well installed but the cover to the well was yet to be completed. The pressure at the well outlet was 30m (almost the same as we estimated). The operator understood the operating procedures, stopped/started the generator and when asked switched over to the solar panel supply.

They recently reported that the tank has water in it and that they have repaired most of the network with water now in the dispensary/clinic and standpipe."

It was a struggle. However the final success - and being present when the water arrived - feeling the relief and seeing the delight on everyone's faces - more than made up for it. God is good!!

*Ian Rankin and Mike Yallop*



*The first water arrives from the well 1.2 km away.*

*The defunct windmill.*



## ***Katungulu Bible College***

Africa Inland Church Tanzania has two main Bible colleges. The other, at Katungulu in Geita Region, also has water problems. Their windmill pump has given up. The new government tank above the village is already inadequate and if the church were to refurbish its own supply the community would therefore also benefit.

CED is considering how we could help them refurbish the scheme. We also hope to support the denomination with their need for architectural work at their seminary for secondary school age children and for their planned vocational training school.

*Ian Rankin*

## ***Chato District, Geita Region***

International NGOs have many factors to balance, one being how externally funded projects will relate to work being carried out by the state. Will they duplicate existing schemes and undermine government charges designed for sustainability? Will they soon be superseded by a new government initiative? Will they simply frustrate government attempts to do its job? An invitation from the Mayor of Chato

through Kwa Pamoja, a local NGO headed by ex AIM missionaries Dale and Chris Hamilton may well allow CED both to encourage Chato's water department and to identify areas where CED might be able to contribute in future.

CED will send engineers to explore the situation and report through PrayerPoints.

*Ian Rankin*



*On the ferry to Geita crossing the Mwanza Gulf.*

# Zanzibar...

The World Monuments project to conserve Zanzibar Cathedral came to an end in May as planned. The roof and walls were structurally stabilized, the tiles replaced and the interior rewired and redecorated. An exhibition about the slave trade was opened in the hostel annexe, both to educate and to increase income to sustain the complex.

Work did not stop, however. The Diocese employed the lead conservator, Tony Steel, to refurbish the cathedral spire. CED contributed financially to this on the basis that it was important to complete this stage



*Tony Steel on spire; note string lines on arises... he's near the top!*

of the project. The upper part of the spire was inspected for the first time in many decades and found to be in very poor condition with cracks and small pieces of coral masonry working loose. The top part was completely rebuilt and the surfaces replastered, incorporating a fibreglass



*Zanzibar Cathedral spire*

mesh to hold the masonry together. This work is now complete and Tony is on his way to work at Lalibela in Ethiopia. We're hoping he'll return as there is still much for him to do! The Diocese has plans to develop a tourist trail and the next step will be to refurbish Mbweni, a beautiful church built by freed slaves just prior to the cathedral (interior pic. on back cover).

*Ian Rankin*



*St John's Church, Mbweni.*



*Slave Trade Exhibit.*



*Slave Trade Exhibit.*

## ***Out and about Unguja, Zanzibar.***

One of the privileges of travelling with CED is that we get off the tourist trail. Mike and I visited 4 different villages in the course of our 6 day stay as well as seeing different parts of Zanzibar town.

We were introduced to church members and friends in several villages, all with real headaches regarding water. Although the government is spending a lot of money on infrastructure just now many parts of the island remain with a very patchy supply; it can be a long walk to a well and near the sea the water is often brackish. We hope that CED will support Kiwanga where an energetic church member already has a well and would share the water freely if the community were willing to pump it. CED could help them design a system and offer a grant towards the cost of a transformer. A significant part of the package would be to encourage better sanitation.

We also met with a couple of Muslim villagers in Muungoni. The church is interested to work with their community as a demonstration of Christian love; the village is beyond the reach of the piped government supply. CED would work with



*New government tank at Dole remains without a water supply. Nobody knows when the project will complete and CED did not feel able to fundraise for a new well in the interim.*

them to develop a design to pump water from a well to a central point in the village and offer some financial support.

These projects depend on the local communities gathering information, themselves raising funds and showing an ability to report; and on the Zanzibar Diocese managing things locally. Please pray that good working relationships will develop.

*Ian Rankin*



*Well near Muungoni*



*Waiting for water at Kiwanga.*

## *Alan Michell returns to Rwanda*

It was privileged to be able to return to Rwanda early in October to follow up on two possible projects for CED support. Travelling on my own this time but I was welcomed and accompanied by Jonathan Lamb from the Anglican Church in Lewes whilst in Rwanda.

The first of the two projects is for St Matthews School in Kamembe in the Western Province of Rwanda, where CED is giving technical support to Rob Hoy from Lewes in East Sussex to extend an existing Rainwater recovery system. The school currently has three storage tanks and the plan is to add a further 5 x 10,000 litre tanks in 2017. Fund raising from local sources in Sussex is under way and it is hoped to place a contract to start work in February 2017 with installation commencing in May.

The school which has over 600 primary and secondary students, is located on the steep hillside of one of the highest hills in Kamembe known as Mont Cyangugu, and overlooks Lake Kivu, with the border of the Democratic Republic of the Congo in the background.

Fund raising from local sources in Sussex is

underway and it is hoped to place a contract to start work on the extension in February 2017

The second project is to provide a suitable rainwater harvesting system for a community of Rwandan refugees recently returned from Tanzania and located in a cell community in Mayange, Bugesera in the Eastern Province of Rwanda. The community currently comprises 36 houses with further houses being built, a church under construction and a piggery. The houses, which are of mud brick construction, have no water supply at the houses or electricity, and many are without doors or windows to keep out the elements. This project is in the early stages of assessing the best answer to the communities needs and a meeting was held with the Faith Centered Ministries Church Leaders, the Mayange Cell Leader, Florence and James Rubakisibo of RHEPI a local Rwandan NGO.

It is hoped to finalise the project proposal early 2017 to enable installation to start later in 2017, however fund raising for this project has yet to be started

Three other visits were made whilst in the



*St Matthew's School, Kamembe, in The Anglican Diocese of Cyangugu.*



From left to right: Pastor Charles Semwaga, Alan Michell, James Rubakisibo, Florence, Bishop Peter and our driver, discussing the Mayange project under the shade of a Mango tree.



Alan Michell with Pastor Eciba and Pastor Jean Pierre of the Assemblies of God Church in Bukavu DRC meeting at the Peace Guest House in Kamembe

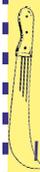
region. A meeting was held in Kamembe with two Pastors from the DRC to discuss ways of providing technical support and training in providing quality water supplies to the communities in Bukavu (DRC) which borders Kamembe (Rwanda).

A visit was also made to Kibagora which is located north of Kamembe on Lake Kivu, to a Free Methodist Church and School. The Church is currently having a Rainwater system installed by Rob Hoy's Anglican Church in Lewes, whilst the school is in dire need of an extension to its limited water recovery system. Finally a visit was made to Star School, again located on a steep hillside in Masaka on the outskirts of Kigali, where water run-off from the school buildings is causing serious issues with the local community

*Alan Michell*



Mayange Cell Community typical home.



# I want to give to CED

I enclose a cheque to the value of:

made payable to Christian Engineers in Development

or

I wish to set up a Standing Order:

name of bank or building society

address of bank or building society

your sort code and account number

account name:

Please pay until further notice to:

Treasurer Account, Christian Engineers in Development, Sort Code 40-17-16, Account 91456504, at HSBC Bank PLC,

94 East Street, Chichester, PO19 1HD, the

sum of £  (figures  (words)

on the  of each month/qtr/year (please circle)

First payment to be made on  /  /

quoting as reference (your surname and initials in capitals)

date

Signature

Please fill your name and address overleaf, sign for Gift Aid if eligible and return this tear-off to:

**Hon. Treasurer CED**

**W.R. Harper**

**37, Kidmore End Road,**

**Emmer Green,**

**READING RG4 8SN**

I'd like to support CED

Name and address inc postcode:

email and phone numbers

sign below to Gift Aid this  
and all future donations:

I confirm I have paid or will pay an amount of Income Tax and/or Capital Gains Tax for each tax year that is at least equal to the amount of tax that all the charities that I donate to will reclaim on my gifts for that tax year.

I understand that other taxes such as VAT and Council Tax do not qualify. I understand that the charity will reclaim 25p of tax on every £ that I give.

signature:

please complete gift details overleaf.



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**Front Cover:**

*Pump technician arriving at  
Majahida.*

**This picture:**

*Interior, St. John's, Mbwani,  
Zanzibar.*

