

ROTARY CLUB OF GABA

CLUB NO 29269; DISTRICT 9211

PROJECT PROPOSAL

PROJECT NAME

STORM WATER DRAINAGE AND SANITATION

LOCATION

**KATOOGO VILLAGE,
GABA PARISH,
MAKINDYE DIVISION,
KAMPALA, UGANDA**

Prepared: October 2017

Club Chartered	18 th Feb 1993
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1. PROJECT LOCATION AND BACKGROUND

The Katoogo area is an informal settlement located on Ggaba road neighboring the National Water and Sewerage Corporation and the swamp connecting to the lake. The area was a swamp/wetland which was encroached and with years it has expanded to cover a large area. The settlement have since destroyed the original quality of the swamp of purifying the water entering the lake. Poor disposal of non-biodegradable refuse by the settlers also increases on the pollution of the lake. The area has a population of about 5000 people of which children 1yr- 15yrs account for 56%, 15yrs-30+ Women 44%.

2. PROBLEM STATEMENT

• SANITATION

2014 theme of World Toilet Day was “Equality and Dignity”. There are about 2.5 Billion People in the world who lack access to basic sanitation defined as hygienic separation of people from faeces. Improved sanitation according to WHO brings economic benefits with 5 times the investment.

Open defecation

About a billion people defecate in open everyday due to lack of toilets and diseases transmitted through faeces which kill around 6,000 people everyday 90% of whom are children.

Informal settlements are the culprits. Among children living in informal settlements poor sanitation brings long term impacts e.g. diarrhea and infections which are linked to malnutrition and reduced schooling, improved mental development and other factors that lessen life chances.

It is with this information in mind that Rotary Club of Ggaba thought of improving sanitation for Katoogo settlement.

The whole area of Katoogo is water logged and constructing a pit latrine and septic tank is extremely difficult. Only collection tanks are built and when full the contents are let out into the water/ channels to the lake thereby polluting our source of water for the whole city.

Those who are not able and have no space to construct any toilet use polythene bags (kaveera) to dispose the waste and it is thrown all over the place with the raw contents.

We are therefore, proposing to construct pit latrines (public). After construction they will be handed over to the community for management. A number of toilet blocks will be specifically constructed to cater for a number of families. The community will be tasked to identify plots for the construction and will also provide labor as part of their contribution.

- **STORM WATER MANAGEMENT**

The area has a major challenge when it rains. Being at the lowest part of Ggaba Hill, it receives all the surface runoff from as far as the National Seminary through the high density residential area and slum of Mission Local Council 1. All the water collects at the corner near the gate of NWSC water treatment plants and flows through the twin culvert of diameter 500 mm. it crosses the fenced land where labor quarters are situated. Then the water flows further down through a densely populated slum/informal settlement in a natural unstable deep gully before entering the swamp.

The quality of the water flowing throughout the year is very bad and is a health hazard. It is black in colour and smelly, indicating high levels of faecal and other forms of contamination. This is characterized by perennial outbreaks of diseases like cholera and typhoid. There is constant flow of this water even during the driest part of the year.

Another dangerous phenomenon is the depth of the open gully whose sides are eroded every time it rains and where the residents fall often and break their limbs. In some parts it is as deep as 1.6 meters. Recently, during a heavy rainfall a child fell in and drowned.

The works here will involve excavations and preparing the trenches ready to receive culverts, importing granular material to surround the pipe backfilling and construction of two manholes. Construct two bridges for safe crossing.

The work involves excavation and making the gully an even trench ready to receive the culvert pipe, importing granular material to surround the pipe, backfilling and construction of a header wall and two manholes.

3. **FINANCING**

The club is today launching a fundraising drive to implement the noble cause. We expect to raise funds during the years and will continue to engage other stakeholders and well-wishers.

It is expected that at least 6 blocks of toilets will be constructed each with 6 stances and it is estimated that each block will cost at least Uganda shs.22million.

4. IMPLEMENTING PARTNERS

Rotary Club of Ggaba and The community

The Rotarians of Ggaba will be involved in this project directly in various ways. They will contribute 20% to the cost of the project, purchase materials, do the supervision of the works and sensitization of the community to own and maintain the project. The community will participate in physical construction.

Ggaba Rotary Club will provide oversight of the project. An advantage Ggaba Rotary club has in this is that its home – Green Valley Hotel is in the same village with the project area, the project being 500 meters from the hotel.

5. PROJECT JUSTIFICATION

- The project is intended to benefit the whole community. The project is to drain and clear this main channel which will lead to improving drainage in the area thus reducing the chances of mosquitoes breeding and infecting the community with malaria and providing toilets to do away with open air defecation. Since the filthy water will be, properly drained. Other waterborne diseases such as cholera will also be eliminated. The channel will also become safe since it is going to be covered as per project description above.
- A needs assessment for this project was done and the community chose this project over others that were envisaged. They have indicated their commitment by undertaking to provide the casual labor in the implementation process of the project. The Rotary club of Ggaba will work with the existing leadership to form an RCC to manage and maintain the project. The participatory approach and involvement of the community will make it own the project.
- This project does not fully solve the drainage problems of the community however it is hoped that since this channel is a major channel, once it is worked on then the other smaller ones can be handled at a later stage. Part of this channel lies within the property of National Water and Sewerage Corporation who have agreed to partner with us on other community projects. We are in the process of involving them in working on that part of the channel which lies within their property.

6. PROJECT COSTS

RAIN WATER DRAINAGE

CHANNEL

Item	Description	Unit	Quantity	Price	Amount
1	Excavate trench 200 m long 1M wide and 1m deep	m3	100	10,000.00	1,000,000.00
2	Provide for timbering trench to protect workers in trench	m2	16	10,000.00	160,000.00
3	Level and ram bottom of trench to the required slope	m	204	1,000.00	204,000.00
4	Supply pipe culvert DN 500 6m long spigot joint	m	204	44,000.00	8,976,000.00
5	Lay pipe culvert DN 500 6m long spigot joint	m	204	5,000.00	1,020,000.00
6	Import and fill granular surround for the culvert pipe	m3	1	27,000.00	27,000.00
7	Backfill trench while ramming in layers of 100mm	m	204	2,000.00	408,000.00
8	Construct masonry wall at NWSC fence to receive runoff	LS	1	400,000.00	400,000.00
9	Construct manhole at bend and at 80 m from manhole	LS	2	1,200,000.00	2,400,000.00
10	Provide for heavy concrete manhole covers	LS	2	100,000.00	200,000.00
	Sub total				14,795,000.00
	Add contingency and supervision 10%				1,479,500.00
	Add Labour				1,000,000.00
	Add 18% VAT				3,109,410.00
	GRAND TOTAL				20,383,910.00

**COSTS FOR LATRINE
CONSTRUCTION**

(ONE BLOCK OF 6 DOORS)

Item	Description	Unit	Quantity	Price	Amount
1	Burnt clay bricks	Pcs	5000	350	1,750,000
2	Cement	Bags	30	32,500	975,000
3	Lake sand (5 ton truck)	Trips	2	200,000	400,000
4	Plaster sand (3 ton truck)	Trips	2	150,000	300,000
5	Aggregates	Tonnes	2	50,000	100,000
6	Iron bars	Pcs	15	28,000	420,000
7	Pipes 4" PVC	Pcs	6	37000	222,000
8	4" PVC Bends	Pcs	6	20,000	120,000
9	Corrugated iron sheets 28 gauge	Pcs	12	45,000	540,000
10	Hard wood timber 4X2	Pcs	12	10,000	120,000
11	Wire nails(Assorted) 3" 4"& 5"	Kgs	5	5,000	25,000
12	Roofing nails	Kgs	5	10,000	50,000
13	Paint	Litres (20)	30	270,000	8,100,000
14	Doors & Hard wood complete with hinges and locking system(Staples)	Nos	6	220,000	1,320,000
15	Provide for washing hands	Hem	2	50000	100,000
	SUB TOTAL				14,542,000
	Add contingency and administration 10%				1,454,200
	Add labour				2,500,000
	Add 18% VAT				3,329,316
	GRAND TOTAL				21,825,516

Katoogo Slum Area in Pictures after a down pour of rain.









