



FEDERAL GOVERNMENT COLLEGE, ENUGU

Global Alumni Projects Implementation Committee

email: 2017projects@fgcealumni.org

Invitation to Tender/Pre-Qualification

March, 2018

As part of the dedicated and continuous effort to improve living facilities at FGCE, the decision was taken at the London 2017 global reunion to fundraise and deliver a project aimed at solving the water shortage issue at FGCE.

FGCE UK Alumni (Charity No. 1172816) hosted the reunion and the associated fundraising activities and is working in collaboration with AFGCEAA (US Not-for-Profit) and other alumni associations, under the direction and supervision of the Global Project Implementation Committee, to deliver the water project.

The Global Project implementation Committee was formed in 2015 to oversee the execution of projects that would improve living conditions and foster a better learning and teaching environment for students and staff at our great alma mater, Federal Government College, Enugu (FGCE).

Invitation to Tender: Rainwater Harvesting Project- Phase 1 (FGCE Main Gate Area)

Bids are invited from interested members of the public for the supply of part or all of the following products and/or services:

Rainwater Harvesting System at Federal Government College, Enugu- Phase 1 (FGCE Main Gate Area)

Solution Needed

To tackle the long-standing water crisis at Federal Government College Enugu, The Global Projects Implementation Committee has identified the installation of a large-scale Rainwater Harvesting/Collection system utilizing building clusters at the school as a sustainable way of solving the water crisis.

The identified solution is to collect rainwater from 7 main buildings in the cluster of buildings around the FGCE main gate and library and send the collected rain water to the underground tank near the main gate where primary filtration takes place. This cluster alone has the capacity to deliver over 1.5 million litres of water annually to the school. The collected water is then pumped automatically to the overhead tank using solar powered submersible pumps for onward distribution via a series of underground pipe networks to the treatment plant at the refectory and the student end-use points at the hostels.

This forms Phase-1 of the rainwater harvesting project. Provision has been made for expansion to other buildings during subsequent phases of the project.

TEAM MEMBERS: Innocent Ogbue, USA- Chairman, Ada Azi, Canada-Secretary, Nkechi Ezinmo-UK-Asst. Secretary, Elias Igwegbu-Nigeria, Ike Agbim-USA, Oliver Okeke-Nigeria, Lawrence Okorafor-UK, Kodi Atuchukwu-UK, Amaechi Nsofor-UK



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The Bill of Quantities for the project is broken down into three parts:

1. Solar power supply for The Rainwater Harvesting system
2. Pumps and accessories for the Rainwater Harvesting system
3. a. Construction and Installation of Plumbing and electricals for the Rainwater Collection system
b. Construction and Installation of Rainwater Collectors for each Building

Vendors are invited to bid on one or more parts of the project based on the attached Bill of Quantities. A vendor may also bid on just a single item of the project (e.g. installation of the rainwater collection system) rather than the whole project part(s) if they feel their competence and expertise is more suitable for providing the single project item rather than the whole.

Vendors will be taken to the site to view the buildings earmarked for rainwater collection and will quote for the rainwater collection scope per building. **A site visit will has been scheduled for interested vendors on Wednesday 21st March, 2018 at 8.00 am prompt at the school main gate.**

Vendors may quote for some or all of the buildings based on their ability to handle the installation complexities in the buildings involved.

Quotation for ground work piping will be per 12 feet partition.

Contracts will be awarded based on some or all of the items in the Bill of Quantities. Bids which are only valid for an all-or-none contract must be marked as such.

The materials price includes the cost of importation and transportation where applicable and will be based on delivery to FGCE with cash on delivery arrangement.

Payment will be cash on delivery for both the materials and installation packages of the contacts.

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Bill of Quantities _ Solar Power Supply for FGCE Rainwater Harvesting System

S/Nr	Item description	Qty	Unit Price	Amount
1	300/320/325 Wp Mono Solar Panels (US Spec or major brand eg Suntech)	12		
2	4 mm2 wire roll red	1		
3	4 mm2 wire roll black	1		
4	4 mm2 wire roll (earth)	1		
5	100A DC circuit breaker	2		
6	Solar Panels Roof Installation Accessories (for installation on main security gate house roof)	1		
7	Solar Panels Roof Installation Labour (for installation on main security gate house roof)	1		
8	Lightening arrestor system plus installation for main gate house	1		
9	Transportation etc	1		
	Total			

Bill of Quantities _ Pumps and Accessories for Rainwater Harvesting System

S/Nr	Item description	Qty	Unit Price	Amount
1	Grundfos Sqflex 8A-3 submersible pump	2		
2	Grundfos CU-200 Control Unit	2		
3	Rainwater Cyclone (Maelstrom type), external side-tank mounted	2		
4	Water Heater Switch	2		
5	Float switch (sealed type, dropped inside tank)	2		
6	2.5 mm2 4-core armoured cable roll	3		
7	10 KVA Automatic Voltage Stabilizer	1		
8	20A AC Circuit Breaker	2		
9	80A Contactor (1NO 1NC)	2		
10	Change-over knife switch (PLH)	1		
11	Control Panel Box (approx 2 ft wide)	1		
12	1 bundle electrical PVC pipes 20mm (plus accessories for connections)	1		
13	Earth rod, charcoal and all accessories for earthing	1		
	Total			

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Bill of Quantities _ Construction and Installation of Plumbing and Electricals for the Rainwater Collection System

S/Nr	Item description	Qty	Unit Price	Amount
1	Electrical Installation of main control panel and hookup to solar power, pumps, level controls and running up to 200m of armored cables between tanks, earth rod installation, plus any required wiring modifications. Excludes solar panel installation.	1		
2	Road crossing (10.1m) and gutter crossing (1.2m), using one road cutting 2-ft wide and 3-ft deep, resurfaced with 6 inch thick concrete. Gutter crossings require 4 inch steel casing pipes (x3) and 8 inch pipe (x1). Scope includes materials and labour.	1		
3	Pump installation within underground tank (includes construction of sand control gravel-pack screen inside tank using stainless steel), installation of external sand control cyclone (Maelstorm type) on tank external wall, and hookup of pipe to pipeline.	1		
4	Laying of about 200 m of 3-inch PVC discharge pipeline between two tanks (materials provided) (quote per 12 ft partition)	1		
5	Laying of up to 1000 m of 6-inch PVC rainwater collection trunkline; includes digging, pipe laying, testing and covering up (quote per 12 ft partition)	1		
6	Laying up to 1000 m of 3-inch PVC water pipeline (includes digging, pipe laying, leak testing and cover up); may include bends/T's valves etc as necessary in the pipe network; materials will be provided. Quote per 12-ft partition.	1		
7	Procure materials and install rainwater collectors including constructing and installing stainless-steel inlet filter screens and downpipes for up to 7 buildings (quote separately for each building, as shown in the additional BoQ template below)	1		
8	Repair/reconstruct overhead tank level gauge.	1		
9	Repair/reconstruct underground tank covers and vent pipes.	1		
	Total			

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Bill of Quantities _ Construction and Installation for Rainwater Collectors for Each Building

N/B: This BoQ template is a clarification of the requirements for item 7 in the BoQ above to provide maximum flexibility when quoting for the requirements for each building.

S/Nr	Item description	Qty	Unit Price	Amount
1	Gutters			
2	Hangers			
3	Outlets			
4	Bends			
5	Extensions			
6	Downspouts			
7	Mitres			
8	Endcaps			
9	Straps			
10	Sealant			
11	Joiners			
12	Y Diverter			
13	Stainless-steel inlet filter mesh (for down pipes)			
14	Installation accessories			
15	Scaffolding (where applicable)			
16	Transportation and Labour			
	Total			

Tenders are hereby invited from eligible and reputable contractors who wish to bid for the projects. Completed tender documents for each project should be submitted to Project Implementation Committee via email at 2017projects@fgcealumni.org

All bids must be received by 11.59pm on March 29, 2018.

The solar power and pump solutions need to be operational within two weeks from the date of the award of the contract and the rainwater collectors for each building by 30th April 2018 at the latest.

Successful bidders will be contacted not later than 10 days from the date of this publication.

For questions/clarifications on this publication please contact Project Implementation Committee via email at 2017projects@fgcealumni.org

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Pre-Qualification Criteria:

1. Certificate of Incorporation/Evidence of Registration at the CAC
2. Evidence of current Tax clearance certificate for 3 years (optional)
3. Evidence of VAT and TIN (Tax Identification Number) registration
4. Company profile, organizational structure including names of directors and management team, address of the company, and contact details.
5. Evidence of execution of similar projects undertaken in the past 3 years, including scopes, sites of project, contract sum, and evidence of successful completion (optional).
6. Evidence of financial capability and bank reference.
7. Professional body registration if any e.g. ICAN, COREN, SEC etc.
8. Members of the PIC, Executive council, Board members of FGCE UK Alumni, AFGCEAA Inc. and any company they are in partnership with are not eligible to bid.
9. Bid Certification document.

Signed

Dr Innocent Ogbue

Project Coordinator

2018 FGCE Global Alumni Projects Implementation Committee

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