

Rotary Club of Kitengela (RCK)

TENDER DOCUMENT

**Grant Title: Drinking Water and Improvement of Sanitation at
Kyatune Special School in Mutomo.**

Grant Number: GG2123813

For

Borehole Drilling & Test Pumping.

**Kyatune Adjudication Section, Plot No. 977, Kyatune Location,
Mutomo District.**

Introduction

Rotary Club (RC) of Kitengela is a not-for-profit organization registered under Rotary International.

It has 7 areas of focus as below.

- Peace and Conflict Prevention / Resolution
- Disease Prevention and Treatment
- Water and Sanitation
- Maternal and Child Health
- Basic Education and Literacy
- Economic and Community Development
- Environment

In collaboration with the Rotary Club of Kitengela, Rotary Club of Upsalla Linne, Solskankt NGO, Kyatune Special School and Sweden Mutomo Project International and the Kyatune Community in Mutomo; they are desirous to undertake a project in Economic & Community Development and Water & Sanitation in the Kyatune area. This will involve drilling of a borehole, water distribution (reticulation) and building of one (1) water kiosks for vending water to the neighboring community.

The Kyatune community has identified a plot where the borehole will be drilled and hydrological surveys done. Rotary Club of Kitengela would like to enlist the services of a competent Borehole Contractor (Must be registered with Ministry of Water & Irrigation as a driller) through competitive tender process to drill and test pump water to ascertain the yield and quality of the water in the above site.

Overall works include:

1. Drilling Borehole – shall be drilled to a depth of approximately 280 Metres
2. Test pumping
3. Testing for quality

This tender is in 2 parts:

- ✓ Part 1: Technical Bid
- ✓ Part 2: Financial Bid.

The technical tender will contribute 70% to the evaluation while financial tender will contribute 30%.

Documents shall be mailed to rckitengelabids@gmail.com marked **Proposed Borehole Drilling and Test Pumping for Kyatune Special School at Kyatune Adjudication Section, Plot No. 977, Kyatune Location, Mutomo District**. Submissions are expected to reach on or before close of business on **October 16th, 2021** addressed to the RC Kitengela Tender Committee

Part 1 - Technical Bid

The following information shall be provided as explicitly as possible: -

1. **Statutory Requirement /Capacity (Mandatory requirements)**
 - a. Valid registration certificate.
 - b. Valid KRA pin/VAT certificate
 - c. Registered under the Ministry of irrigation 2021 list.
 - d. Valid Tax compliance Certificate
 - e. Registration as Civil Engineering Contractors (Water Works) minimum of Class NCA 7 with the National Construction Authority of Kenya. (Valid NCA certificate) and registration with the Ministry of water, irrigation as a driller.
 - f. Registration with the Ministry of Water as a driller
 - g. Valid Business Permit with current physical address
 - h. Certified copy of CR 12 Form indicating Directorship of Company
 - i. Company physical location, branches legal domicile -Provide lease agreement as evidence or title deed for ownership.
 - j. Evidence of capacity to work in Kenya: Proof of Kenyan citizenship by production of a Kenyan Identity Card; or proof of being a “citizen contractor” in terms of section 3(1) of the Public Procurement and Disposal Act, CAP 412, Laws of Kenya, being a natural person or an incorporated company wholly owned and controlled by persons who are citizens of Kenya.
 - k. Letters of Agency, Representation, Distributorship etc. for equipment manufacturers etc.
 - l. Written power of attorney to authorize the signatory of the Tender to commit the Tenderer.
 - m. Evidence of adequate insurance risk covers and policies in the joint names of the Rotary Club of Kitengela and the Contractor, insurance cover from the Start Date to the end of the Defects Liability Period, in the amounts and deductibles stated in the Contract for the following events which are due to the Contractor’s risks:
 - (a) Loss of or damage to the Works, Plant, and Materials;
 - (b) Loss of or damage to Equipment;
 - (c) Loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and
 - (d) Personal injury or death.
 - n. Evidence of adequate working capital for this contract.
2. **Technical Requirement /Capacity**
 - a. Evidence of competence of personnel resources & technicians (qualification should be relevant to the scope of works)
 - b. Staff requirement(mandatory) (Avail Detailed CVs and certificates of proposed staff):
 - i. Hydro geologist: At least 1 No. degree in Hydrogeologist, with over 5 years’ relevant experience.
 - ii. Drilling technician: With over 5 years’ experience of drilling in different formation
 - iii. Electro-mechanical Engineer: Bsc Electrical /mechanical or Diploma in Mechanical Engineering with over 5 years’ experience

- iv. Environmental/social expert with at least 3 years' experience in water and sanitation projects.
 - v. A site agent- a holder of a degree in water/ civil engineering
- c. Experience as prime contractor in the construction of at least (4) projects of a nature and complexity equivalent to the Works in the last 5 years or the period stated above to comply with this requirement, works cited should be at least 80 percent complete. (History of performance for bidders who have worked with the Agency shall be considered)
- d. Experience under contracts in the role of contractor, subcontractor, or management contractor for at least the last one (1) year prior to the application submission deadline and with activity in at least (9) months in each year (Provide history of performance with referees and current contact details)
- e. Listing of plant, machinery, equipment and testing resources. (Attach prove Ownership or lease agreements. Log book or lease/hire agreements must be attached specifying the registration or serial numbers). The essential minimum equipment to be made available for the Contract by the successful Tenderer through ownership, lease, hire, etc.) shall be as follows:
- i. Drilling rig with capacity to drill 200m
 - ii. Test pumping unit
 - iii. 1 Ton Pick up
 - iv. 1m³ Concrete mixer
 - v. Concrete Packer vibrator (90mm)
 - vi. Hydrostatic Pressure testing equipment
- e. List of current relevant ongoing jobs /projects, particularly:
- i. Evidence of recent (ongoing/current up to 5 years) successful borehole drilling particularly in Machakos, Makueni and Kitui.
 - ii. Evidence of successful experiences with latest construction and equipment technological developments and trends as applicable
- f. Occupational Health and Safety Arrangement Litigation and Arbitration history (attach sworn Affidavit indicating if your company has had any or has lost or has won all construction-related litigation or arbitration cases at all.)

3. Financial Capacity

- a. Demonstrate access to adequate working capital demonstrated by letters from banks, or availability of, financial resources such as liquid assets, lines of credit and support letters from Key Suppliers.
- b. Financial Statement Summaries of the last 2 years/management accounts, audited, signed and stamped.
- c. Submission of audited financial statements for the last three (3) years.

4. Qualitative Requirements

- a. Evidence of an unblemished record (Ethical conduct and integrity) and related declarations
- b. Any other capacity / quality the firm may wish to make known

5. Schedule of Services

- a. Methodology
- b. Workplan
- c. Completion period

6. Financial Proposal with Completeness of the Bills of Quantity (BOQ)

7. Language

Language of Tender and all correspondence shall be English. The law that applies to the Contract is the Kenyan Law.

8. Currency

The currency in which the prices shall be quoted shall be: Kenya Shilling. The authority for establishing the rates of exchange shall be: NOT APPLICABLE. All payments shall be in Kenya shilling.

9. Tender Validity

The Tender validity period shall be 120 days

10. Cost of Tendering

The Tenderer shall bear all costs associated with the preparation and submission of its Tender, and the Rotary Club of Kitengela shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering process.

11. Site visit

The Tenderer, at the Tenderer's own responsibility and risk, is required to visit and examine the Site of Works and its surroundings and obtain all information that may be necessary for preparing the Tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Tenderer's own expense.

12. Clarification of tendering Documents

A prospective Tenderer requiring any clarification of the Tendering documents may notify the Procuring Entity in writing or e-mail at the Procuring Entity's address (physical or email) indicated in the Tender Documents.

13. Amendments of the tendering documents

Before the deadline for submission of Tenders, the Rotary Club of Kitengela, may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Tenderer, modify the Tendering documents by issuing addenda.

Any addendum issued shall be part of the Tender documents and shall be communicated in writing or by e-mail to all who have obtained the Tendering documents directly from the Rotary Club of Kitengela.

In order to allow prospective Tenderers reasonable time in which to take an addendum into account in preparing their Tenders, the Rotary Club of Kitengela at its discretion shall extend, as necessary, the deadline for submission of the Tenders.

14. Notification of Award

14.1 The Tenderer whose Tender has been accepted will be notified of the award by the Rotary Club of Kitengela prior to expiration of the Tender validity period by e-mail confirmed by registered letter. This letter, hereinafter and in the Conditions of Contract called the "Letter of Acceptance."

14.2 The notification of award will constitute the formation of the Contract, and signing the Contract.

14.3 At the same time as the person submitting the successful Tender is notified, Rotary Club of Kitengela, will notify each unsuccessful Tenderer., the name of the successful Tenderer.

15. Signing of Contract

15.1 Promptly, and in no case later than 14 days, after notification, the Rotary Club of Kitengela shall send the successful Tenderer the Agreement and Contract, incorporating all agreements between the parties obtained as a result of Contract negotiations.

15.2 Within the period specified in the notification but not earlier than fourteen (14) days since notification of award of contract, the successful Tenderer shall sign and date the contract and return it to the Procuring Entity.

16. Payment Terms

Payment will be remitted in four instalments upon presentation of progress report and certification by the Project Lead: -

- a. 40% upon mobilization of all materials and labour and the preparation of the site for the drilling of borehole
- b. 30% Completion of drilling before pump testing.
- c. 20% after completion of test pumping
- d. 10% on presentation of the borehole completion certificate.

Interested Firms are requested to Submit the following:

1. Duly updated company profiles and their website links
2. Submission documents with all the requirements detailed above
3. Duly priced financial tender

SECTION : SCOPE OF WORKS

1.1 GENERAL

1.1.1 MATERIALS AND EQUIPMENT

All materials, equipment, etc. to be used in the execution of the work by the Contractor in this contract shall conform to the requirements of the latest Kenya Bureau of Standards (KEBS), International Electrotechnical Committee (IEC), International Standard Organization (ISO) or other approved applicable standards in Kenya unless otherwise specifically stated.

1.1.2 Works under the contract include but NOT limited to the following:

- Preliminaries and General items
- Borehole Drilling works
- Finishing works for the borehole drilling

1.1.3 QUALITY OF MATERIAL AND WORKMANSHIP

The materials and workmanship shall be of the best of their respective kinds and shall be to the approval of the Project Lead.

Should any material/equipment which are in the judgement of the project substandard, or of inferior quality or in any way unsuited for the work in which it is proposed for use, such materials/equipment shall not be used upon the works and shall forthwith be removed from the site and replaced with the proper quality items to the approval of the Project Lead, all at the expense of the contractor.

The Contractor shall remove and reconstruct at his own expense any portion of the works which gives evidence of any defects or injury which may affect the strength or durability of the work or the performance of the system.

1.1.3 CONTRACTOR'S LIABILITY

The Contractor shall indemnify the Employer against any claims made in respect of loss of life, injury or damage to persons, animals, goods, or property.

In event a dry well is hit, the contractor shall drill another well at the cost of fifty percent of the drilling cost.

1.2 BOREHOLE DRILLING

1.2.1 CONTRACTOR

The drilling works shall be carried out by a qualified Borehole Drilling Contractor who is duly registered with all the relevant bodies in Kenya.

1.3 REGULATIONS AND STANDARDS - TECHNICAL SPECIFICATIONS

The borehole shall be drilled at the site to be identified by the Project Lead. The borehole shall be drilled to the depth ordered by the Project Lead, anticipated to be about **280 meters in depth(provisional)**. It shall be drilled through all strata encountered.

The Contractor will drill subject to the understanding that the Club shall only pay for work measured and certified with proper documentation as per actual drill depth. Payments shall be based upon final actual work.

The Contractor will apply for any permit and Government authorization that might be required before drilling the borehole.

1.3.1 MOBILIZATION, DEMOBILIZATION AND RESTITUTION.

The Contractor shall mobilize to the site in accordance with the agreed Programme.

The sum for mobilization shall include: Such preparation as is required, including erection, dismantling and preparation of such temporary camps as the Contractor deems necessary. It shall include provision of water for camp and redevelopment purposes and the provision of personal sanitation facilities.

The Contractor shall minimize disturbance to neighbouring community. This shall particularly include ensuring that bailed fines and pumped test water are discharged in a manner that does not create a nuisance either to public or private property.

Site re-instatement under the condition of contract shall include the removal of all hydrocarbons spilled, leaked or otherwise released and associated packaging and cotton waste. Site re-instatement is deemed an integral part of mobilization. This activity shall be costed considering the items above and expressed as a lump sum.

1.3.2 DRILLING

Drilling shall continue through all strata encountered. Drilling fluids and additives used must be approved by the Project Lead prior to use. The contractor shall provide appropriate tools and equipment and maintain them in good condition capable of operating to the manufacturer's rating and to ensure a smooth, straight hole. Drilling shall continue to the stipulated total depth at a minimum diameter. The Project Lead reserves the right to stop drilling operation if he considers that further drilling is unlikely to be advantageous. In this event payment shall only be made for the amount of work actually executed.

1.3.3 SAMPLE COLLECTION AND STORAGE: RECORD KEEPING.

Samples of the drill cuttings returned to the surface shall be collected at two (2) meter intervals, dried and bagged. Each bag shall be clearly marked with the sample depth interval and borehole number. The contractor shall record the depth of any zone of lost circulation for which no sample was taken. The contractor shall maintain a log of the penetration rate on a meter by meter basis, in minutes per meter drilled.

The Water level shall be measured and recorded at the start and end of every shift, after significant breaks in activity (such as meal breaks), and during periods of plant downtime (as appropriate). Water levels shall be measured using a sounding and / or lighting dipper approved for use by the Project Lead.

Part 2 – Financial Bid

Bids that pass the Technical Evaluation shall be subjected to Financial Evaluation as follows. Evaluation of the tender rates will be done by examining the following:

- (i) Pricing consistency (same rates for similar items, price distribution amongst sections, etc);
- (ii) Reasonableness of pricing (comparison with prevailing market rates, inclusion of taxes [VAT, etc] in the rates and the tender sum.

The bidders who pass the test of price consistency and reasonableness, shall finally be graded in terms of their submitted tender sums.

Instructions to Tenderers

1. Tenders shall be submitted on the form of tender attached hereto and all blanks in this form and in the schedules attached to the specification shall be completed.
2. No alteration shall be made on the form of tender or in the specification and schedules.
3. The tenderer (whether his tender is accepted or not) and all other recipients of the specification and documents shall treat the details of specification and the documents attached thereto as private and confidential.
4. The employer does not bind himself to accept the lowest or any tender and will not be responsible for or pay for expenses or losses which may be incurred by any tenderer in the preparation of his tender.
5. All tenderers shall return tender and all accompanying documents duly completed – email to rckitengelabids@gmail.com.
6. The tender must be received not later than the time, date. Tenders received later than the date specified above shall not be considered.
17. All items of additional information, issued to tenderers prior to the time for closing the bids, shall become a part of the Contract Documents and shall be included in the proposals.
18. The tenderer shall, where applicable, provide leaflets and catalogues giving technical and physical details of the fittings being offered by him as an integral part of his bid.
19. Unless otherwise specified in the specification, Tenderers shall assume that all fittings required will be.

FORM OF TENDER

Dear Sir/Madam

RE: PROPOSED BOREHOLE DRILLING & TEST PUMPING FOR KYATUNE SPECIAL SCHOOL.

Having examined and understood all the specifications, conditions of contract, Bill of Quantities and all other relevant documents for the above works and having obtained all the necessary information affecting this tender, we the undersigned hereby offer to execute and complete to the satisfaction of the Services Engineer the whole Borehole drilling & Test Pumping herein stated for the sum of Kenya Shillings: -

.....
.....

(KSHS: -)

We undertake, if this tender is accepted to execute a formal Contract Agreement with the Client in the terms shown in tender documents and to submit the name of an approved surety who will be willing to be bound to the client for the said works in an amount equal to 10% of the Contract amount.

We understand and agree that the employer is not bound to accept the lowest or any tender. Our offer is valid for acceptance within ninety (120) days from the date of this tender.

We further understand that the payment will only be for actual work done should the drilling depth vary from the estimated 280 metres (provisional)

Signed: Date:

Completion Period:

Name and Address with Official Stamp:

Witness:

Signed:

Address:

Date:



Appendix to the Schedule of conditions of Main contract

The appendix to the Conditions of Main Contract has been completed as Follows: -

1. Defects liability period - 12 months from certified Practical completion of works.
2. Date of possession - In accordance with the Program of works.
3. Date of practical Completion - In accordance with the Borehole Contractor's Program

4. Taxes and Duties

The tender shall be inclusive of all taxes including import duty, VAT and Withholding taxes.

5. Time for Completion

There is need to complete the works in the time stated in the main contracts' document. The Borehole Contractor shall make all due preparation safeguard against factors such as labour, shifts fluctuation, weather patterns etc. that might slow his progress and no claims for extras will be considered on account of his failure to do so.

6. Warranty

The Borehole Contractor must furnish the Project Lead with general written warranty covering quality of workmanship, materials, and equipment and be compelled and held liable thereby for a five-year period after practical completion of the contract, except for latent defects, which shall be warranted for ten years.

The Borehole Contractor must make good at his own expense, such repairs and replacements as may be required as a consequence of negligent workmanship or defective material. The Borehole Contractor must also produce such warrants and guarantees as described aforesaid from all manufacturers and/or suppliers of materials or equipment incorporated in the project under this contract.

7. Samples

The Borehole Contractor shall furnish at his own cost any samples materials or workmanship that may be called for by the Project Lead for his approval, and any further samples in the case of rejection until such samples are approved by the Project Lead, and the Project Lead may reject any materials or workmanship not in his opinion up to the approved samples.

8. Protection

The Borehole Contractor shall adequately cover up and protect his own work to prevent injury and also to cover up and protect from damage all parts of the building or premises where work is being performed by him under the contract.

9. Handing over

The Borehole Contractor's work shall be considered complete, and the defects liability period shall commence only when the contract works and supporting services have been tested, commissioned and operated to the satisfaction of the Project Lead.

10. Defects After Completion

Defects Liability Period will be 12 months from the date of completion of the contract as certified by the Project Lead.

11. Damages for Delay

Liquidated and Ascertained damages as stated in the contract Agreement will be claimed against the Borehole Contractor for any unauthorized delay in completion. The Borehole Contractor will be held liable for the whole or a portion of these damages should he cause delay in completion.

12. Clear Away on Completion

The Borehole Contractor shall, upon completion of the works, at his own expense remove and clear away all plant, equipment, rubbish and unused materials, and shall leave the whole of the works in a clean and tidy state, to the satisfaction of the Project Lead.

PARTICULAR SPECIFICATIONS FOR BOREHOLE DRILLING

1. Purpose

The borehole to be drilled, constructed and test pumped under this contract will be to provide water intended for community use. The maximum ground water abstraction permitted from the borehole shall be 10m³ /hour with the maximum abstraction period not exceeding 8 hours per day.

The execution of the works shall be in full compliance with relevant provisions of the Water Act. The proposed drilling site will be **on Kyatune Adjudication Section, Plot No. 977, Kyatune Location, Mutomo District.**

2. Scope of the Work

The works included in the contract consist of two stages:-

STAGE 1:

Stage one comprises of:

A. Hydrological Study and Survey to confirm opportunity of borehole

This has already been done and the report will be shared with the Borehole Contractor.

B. Formal Submittal to Governing Agencies

Borehole Contractor will have to make applications and acquire permits for drilling a borehole from relevant authorities. This include WRMA and NEMA licenses and all other necessary documents as per the local authority requirements at the time of application. This will necessitate the activity of the next event.

NOTE: - Stage 2 (Borehole drilling) shall take place if items A and B in stage 1 are successful.

STAGE 2:

Stage 2 consist of the following:

- (a) The drilling of one borehole of sufficient diameter to provide for a finished cased and screened borehole of 152mm diameter to the provisional depth of about 280metres.
- (b) The provision and installation of plain high-density synthetic, slotted synthetic casings, and gravel pack, borehole cap, together with cementation works necessary.
- (c) The collection of formation samples at 2-meter interval of drilling progress to the bottom and also water sample at every aquifer struck and at the beginning and at the end of test pumping operation for full physical, chemical and bacteriological analysis. **NOTE:** - **These depths and any other works can be varied by the Project Lead depending on the actual conditions encountered in the process of executing of the works.**

3. Local Conditions

The borehole will be drilled, constructed and test pump in both unconsolidated and consolidated formation and the Borehole Contractor must be prepared to carry out the required work through any type of formation in the project area.

4. Borehole Data

- (a) Total depth – **approximately** 280metres (provisional)
- (b) Casings and screened depth to be determined after borehole construction.
- (c) Static water level – not known
- (d) Dynamic water level – not known

5. Casings

- (a) Casings to be used as part of the permanent borehole structure shall be stainless steel suitable for borehole.
- (b) If any casing other than that to be left permanently in the borehole is required temporarily for execution of work, it shall be supplied by the Borehole Contractor free of charge.

6. Screens

The screens to be furnished and installed shall be of the pipe size variety and can be fabricated in three-meter lengths. The screens shall be of continuous slot type and constructed entirely of stainless steel suitable for borehole installation. The screen shall have slot size opening of 1.4mm.

7. Grouting

Grouting shall be done by either cement or bentonite to seal off unwanted upper aquifers under direction of the Project Lead.

8. Construction Method

The borehole to be constructed shall be drilled by cable-tool percussion method or the combination air/ hydraulic rotary method. The method of drilling shall be left to the discretion of the Borehole Contractor. After drilling to the final depth, the Borehole Contractor shall proceed to insert permanent casings and screens as directed by the Project Lead.

9. Gravel Pack

If filter gravel will be necessary, it will consist of durable, naturally rounded quartzitic particles properly washed and cleaned prior to insertion in the borehole. The gravel shall be introduced in the annular space between the wall of the borehole and the casing from the bottom to about 2 meters below surface. The final casing and screens must be centralized before gravel back and the Borehole Contractor must supply suitable equipment for lowering of gravel pack.

10. Cementation

The space above the gravel pack shall be grouted with a mix of one part of cement to two parts of sand and two parts of ballast, in order of 1:2:2 concrete may be used near the surface to form an annular plug around the casing of dimensions 1.0 x 1.0 x 1.0 meters. There shall be 2000mm diameter concrete plinth on top of the borehole and shall be constructed as shall be directed by the Services Engineer and the Structural Engineer.

Any other cementation works to be done as directed by the Project Lead.

11. Development

The Borehole Contractor shall furnish and develop the borehole by such approved methods as shall be necessary to give the maximum yield of water per increment of drawdown and extract from the formation of maximum practical quality of such sands as may, during the life of the borehole, be drawn through the screens when the borehole is operating under maximum conditions of draw down.

12. Test Pumping

After the borehole has been completed, constructed and developed, the Borehole Contractor shall make necessary arrangements for conducting a 24-hour continuous test pumping up to a maximum of 30hr and 12 hour recovery test under the supervision of the Project Lead. Where the Services Engineer or his representative cannot be present on such pumping test, the Borehole Contractor may continue without him keeping accurate records of the test in terms of discharge and draw down but must seek permission from the Project Lead. Should the Borehole Contractor fail to keep such records, the Project Lead shall order the test to be repeated at no extra cost.

13. Sample Formation

The Borehole Contractor shall keep an accurate record of the top and bottom of each stratum penetrated and shall save and deliver to the Project Lead a sample of materials taken from each 1m of formation, or at every change of formation and at such other intervals as may be ordered by the Project Lead. Those samples shall be placed in approved Borehole Contractor supplied containers with labels which indicate the depth at which the sample was obtained.

14. Water Samples

Water samples shall be collected at every water struck while drilling and also shall be collected at the start of every test and toward the end of the test in a three-litre sterilized plastic container for **physical, chemical and bacteriological analysis** and submitted to a competent laboratory for analysis.

15. Reports

The Borehole Contractor shall submit to the Project Lead daily progress reports showing: -

- (a) The depth each day indicating drilling in meters per hour with comments on degree of hardness of materials being penetrated.
- (a) Depth at which each water bearing zone is encountered and the rise and fall of water level in different formations.
- (b) The full details of work carried out in respect of operations which are paid for at hourly rate.
- (c) The full details of the number of hours worked each day.

16. Cessation of Work

The Project Lead reserves the rights to stop drilling operations if in his opinion: -

- (a) A sufficient supply of water has been obtained.
- (b) The work is not being carried out in a satisfactory manner or
- (c) Further drilling is unlikely to be advantageous or for any other reason

Payment shall be made only for the amount of work done up to the date of stoppage.

BILLS OF QUANTITIES

Notes of Quantities

1. The prices quoted shall be deemed to include for all obligations under the contract including but not limited to supply of materials, labour, delivery to site, and storage on site, installation, testing, commissioning and all taxes (including 16% VAT).
2. All prices omitted from any item, section or part of the Bills of Quantities shall be deemed to have been included to another item, section or part.
3. The brief description of the items given in the Bills of Quantities are for the purpose of establishing a standard to which the Borehole Contractor shall adhere to. Otherwise, alternative brands of equal and approved quality will be accepted.
4. Should the Borehole Contractor install any material not specified here-in before receiving approval from the Project Lead, the Borehole Contractor shall remove the material in question and, at his own cost, install the proper material.
5. The grand total of prices in the price summary page must be carried forward to the Form of Tender.

PROPOSED KYATUNE BILL OF QUANTITY FOR THE BOREHOLE DRILLING AND EQUIPPING					
RATES INCLUDE VAT					
Item No.	Description	Unit	Qty	Rate (Kshs)	Total (Kshs)
A	Allow for the application and acquisition of permit for drilling a borehole from relevant Authorities	Item	1		
B	Allow for the application and acquisition of NEMA permit for drilling a borehole	Item	1		
	The following borehole drilling shall take place if item A& B are successfully completed and the relevant documents released by the contractor to the Project Lead				
C	Mobilization /demobilization of drilling unit, equipment, materials, personnel and all other required supplies.	Sum	1		
D	Erecting /Dismantling of drilling unit	Sum			
E	Drilling borehole from 0-100m below surface	LM	100		
F	Drilling 100 – 200m	LM	100		
G	Drilling 200 – 280m or the depth where the aquifer with sufficient water will have been hit	LM	80 (approx.)		
H	Supply & Installation of 6" plain & slotted stainless steel casing suitable for borehole	LM	280 (approx.)		
I	Supply & Installation of filler gravel pack	Ton	10		
J	Test pumping to ascertain borehole yield for at least 24hours including installation and withdrawal of test pumping unit, recovery measurements and production of detailed test pump results	Item	1		
K	Construction of concrete plinth around wellhead.	Item	1		
L	Borehole Capping	Item	1		
TOTAL CARRIED FORWARD TO SUMMARY PAGE					

Item No.	Description	Unit	Qty	Rate (Kshs)	Total (Kshs)
A	Allow for all costs involved in providing water for all requirements of the contract drilling field.	Item	1		
B	Allow for the production of water chemical analysis and borehole completion report	Item	1		
C	Geo logging	Item	1		
TOTAL CARRIED TO SUMMARY PAGE					

Summary Page

Item NO	Description	Amount (Kshs)
	Total brought forward from	
1	Page 20	
2	Page 21	
3	Sub-Total	
4	Add 5% contingency sum	
5	Total carried to form tender	

Total cost in words (Kenya Shillings)

Name of Tenderer _____

Address _____

Terms of payment _____

Delivery Period _____