

# KISII COUNTY GOVERNMENT



## DRILLING AND EQUIPING OF BOREHOLES WITH HAND PUMPS

### LOT 5:

- (i) Nyabongo – 200M**
- (ii) Riamang'ata – 150M**
- (iii) Igorera – 180M**
- (iv) Kimai – 120M**
- (v) Endereti – 200M**

## BILL OF QUANTITIES

### PREPARED BY:

DEPUTY DIRECTOR WATER  
MINISTRY OF WATER, ENVIRONMENT  
ENERGY & NATURAL RESOURCES

### APPROVED BY:

CHIEF OFFICER  
MINISTRY OF WATER, ENVIRONMENT  
ENERGY & NATURAL RESOURCES

### ISSUED BY:

DIRECTOR WATER  
MINISTRY OF WATER, ENVIRONMENT  
ENERGY & NATURAL RESOURCES

**JANUARY, 2016**

**TENDER/CONTRACT NO. ....**

## **LIST OF STANDARD FORMS**

- 1. Form of tender**
- 2. Price schedules**
- 3. Contract form**
- 4. Confidential Questionnaire form**
- 5. Tender security form**
- 6. Performance security form**
- 7. Bank guarantee for advance payment**
- 8. Declaration form**

**FORM OF TENDER**

Date \_\_\_\_\_  
Tender No. \_\_\_\_\_

To.....  
.....

[Name and address of procuring entity]

Gentlemen and/or Ladies:

1. Having examined the tender documents including Addenda Nos. \_\_\_\_\_ *[insert numbers,* the of which is hereby duly acknowledged, wed, the undersigned, offer to provide. *[description of services]* in conformity with the said tender documents for the sum of . *[total tender amount in words and figures]* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Tender.
2. We undertake, if our Tender is accepted, to provide the services in accordance with the services schedule specified in the Schedule of Requirements.
3. If our Tender is accepted, we will obtain the tender guarantee in a sum equivalent to \_\_\_\_\_ percent of the Contract Price for the due performance of the Contract, in the form prescribed by (Procuring entity).
4. We agree to abide by this Tender for a period of *[number]* days from the date fixed for tender opening of the Instructions to tenderers, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. Until a formal Contract is prepared and executed, this Tender, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20  
*[signature]* *[In the capacity of]*  
Duly authorized to sign tender for and on behalf of \_\_\_\_\_

## PRICE SCHEDULE OF SERVICES

Name of Tenderer \_\_\_\_\_ Tender Number \_\_\_\_\_. Page \_\_\_\_ of \_\_\_\_\_.

1	2	3	4	5	6	7
Item	Description	Quantity & quality	Duration	Unit Price	Total Price  EXW per item  (cols. 4x5)	Unit Price of other incidental services payable

Signature of tenderer \_\_\_\_\_

*Note:* In case of discrepancy between unit price and total, the unit price shall prevail.

**CONTRACT FORM**

THIS AGREEMENT made the \_\_\_day of \_\_\_\_20\_\_\_ between.....[name of procurement entity] of .....[country of Procurement entity](hereinafter called “the Procuring entity”) of the one part and .....[name of tenderer] of .....[city and country of tenderer](hereinafter called “the tenderer”) of the other part.

WHEREAS the procuring entity invited tenders for certain materials and spares. Viz.....[brief description of materials and spares] and has accepted a tender by the tenderer for the supply of those materials and spares in the sum of .....[contract price in words and figures]

**NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:**

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
  - (a) the Tender Form and the Price Schedule submitted by the tenderer;
  - (b) the Schedule of Requirements;
  - (c) the Technical Specifications;
  - (d) the General Conditions of Contract;
  - (e) the Special Conditions of Contract; and
  - (f) the Procuring entity’s Notification of Award.
3. In consideration of the payments to be made by the Procuring entity to the tenderer as hereinafter mentioned, the tenderer hereby covenants with the Procuring entity to provide the materials and spares and to remedy defects therein in conformity in all respects with the provisions of the Contract
4. The Procuring entity hereby covenants to pay the tenderer in consideration of the provision of the materials and spares and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by\_\_\_\_\_the \_\_\_\_\_(for the Procuring entity)

Signed, sealed, delivered by\_\_\_\_\_the \_\_\_\_\_(for the tenderer)

in the presence of\_\_\_\_\_.

**TENDER SECURITY FORM**

Whereas .....[name of the tenderer]

(hereinafter called "the tenderer")has submitted its tender dated.....[date of submission of tender ] for the provision of .....

[name and/or description of the services]

(hereinafter called "the Tenderer").....

KNOW ALL PEOPLE by these presents that WE.....

Of.....having registered office at

[name of procuring entity](hereinafter called "the Bank")are bound unto.....

[name of procuring entity](hereinafter called "the procuring entity") in the sum of .....

for which payment well and truly to be made to the said Procuring entity, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this \_\_\_\_\_ day of 20\_\_\_\_\_.

THE CONDITIONS of this obligation are:

- 1. If the tenderer withdraws its Tender during the period of tender validity specified by the tenderer on the Tender Form; or
- 2. If the tenderer, having been notified of the acceptance of its Tender by the Procuring entity during the period of tender validity:

- (a) fails or refuses to execute the Contract Form, if required; or
- (b) fails or refuses to furnish the performance security, in accordance with the instructions to tenderers;

we undertake to pay to the Procuring entity up to the above amount upon receipt of its first written demand, without the Procuring entity having to substantiate its demand, provided that in its demand the Procuring entity will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions. This guarantee will remain in force up to and including thirty (30) days after the period of tender validity, and any demand in respect thereof should reach the Bank not later than the above date.

\_\_\_\_\_  
[signature of the bank]

*(Amend accordingly if provided by Insurance Company)*

**BANK GUARANTEE FOR ADVANCE PAYMENT**

To.....

[name of tender].....

Gentlemen and/or Ladies:

In accordance with the payment provision included in the special conditions of contract, which amends the general conditions of contract to provide for advance payment,

.....

[name and address of tenderer][hereinafter called "the tenderer"] shall deposit with the Procuring entity a bank guarantee to guarantee its proper and faithful performance under the said clause of the contract in an amount of .....  
[amount of guarantee in figures and words].  
We, the .....

[bank or financial institution], as instructed by the tenderer, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to the Procuring entity on its first demand without whatsoever right of objection on our part and without its first claim to the tenderer, in the amount not exceeding  
[amount of guarantee in figures and words].

We further agree that no change or addition to or other modification of the terms of the Contract to be performed thereunder or of any of the Contract documents which may be made between the Procuring entity and the tenderer, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition, or modification.

This guarantee shall remain valid and in full effect from the date of the advance payment received by the tenderer under the Contract until [date].

Yours truly,

Signature and seal of the Guarantors

\_\_\_\_\_  
[name of bank or financial institution]

\_\_\_\_\_  
[address]

\_\_\_\_\_  
[date]

**PERFORMANCE SECURITY FORM**

To: .....

[name of the Procuring entity]

WHEREAS.....[name of tenderer]

(hereinafter called “the tenderer”) has undertaken, in pursuance of Contract No. \_\_\_\_\_ [reference number of the contract] dated \_\_\_\_\_ 20 \_\_\_\_ to

supply.....

[Description services](Hereinafter called “the contract”)

AND WHEREAS it has been stipulated by you in the said Contract that the tenderer shall furnish you with a bank guarantee by a reputable bank for the sum specified therein as security for compliance with the Tenderer’s performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the tenderer a guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the tenderer, up to a total of .....  
*[amount of the guarantee in words and figures],*

and we undertake to pay you, upon your first written demand declaring the tenderer to be in default under the Contract and without cavil or argument, any sum or sums within the limits of .....  
*[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the \_\_\_\_ day of 20

\_\_\_\_\_  
Signature and seal of the Guarantors

\_\_\_\_\_  
*[name of bank or financial institution]*

\_\_\_\_\_  
*[address]*

\_\_\_\_\_  
*[date]*

(Amend accordingly if provided by Insurance Company)



**CONFIDENTIAL BUSINESS QUESTIONNAIRE**

You are requested to give the particulars indicated in Part 1 and either Part 2 (a), 2(b) or 2(c) whichever applied to your type of business.

You are advised that it is a serious offence to give false information on this form.

<p>Part 1 General</p> <p>Business Name.....</p> <p>Location of Business Premises .....</p> <p>Plot No,..... Street/Road.....</p> <p>Postal address ..... Tel No. .... Fax Email.....</p> <p>Nature of Business .....</p> <p>Registration Certificate No.....</p> <p>Maximum value of business which you can handle at any one time – Kshs.....</p> <p>Name of your bankers.....</p> <p>Branch .....</p>
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	<p style="text-align: center;">Part 2 (a) – Sole Proprietor</p> <p>Your name in full..... Age.....</p> <p>Nationality..... Country of Origin.....</p> <p>Citizenship details .....</p>																				
	<p style="text-align: center;">Part 2 (b) – Partnership</p> <p>Given details of partners as follows</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Nationality</th> <th style="text-align: left;">Citizenship details</th> <th style="text-align: left;">Shares</th> </tr> </thead> <tbody> <tr> <td>1. ....</td> <td>.....</td> <td>.....</td> <td>.....</td> </tr> <tr> <td>2. ....</td> <td>.....</td> <td>.....</td> <td>.....</td> </tr> <tr> <td>3. ....</td> <td>.....</td> <td>.....</td> <td>.....</td> </tr> <tr> <td>4. ....</td> <td>.....</td> <td>.....</td> <td>.....</td> </tr> </tbody> </table>	Name	Nationality	Citizenship details	Shares	1. ....	.....	.....	.....	2. ....	.....	.....	.....	3. ....	.....	.....	.....	4. ....	.....	.....	.....
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4. ....	.....	.....	.....																		
	<p style="text-align: center;">Part 2 (c) – Registered Company</p> <p>Private or Public</p> <p>State the nominal and issued capital of company</p> <p>Nominal Kshs.</p> <p>Issued Kshs.</p> <p>Given details of all directors as follows</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Nationality</th> <th style="text-align: left;">Citizenship details</th> <th style="text-align: left;">Shares</th> </tr> </thead> <tbody> <tr> <td>1. ....</td> <td>.....</td> <td>.....</td> <td>.....</td> </tr> <tr> <td>2. ....</td> <td>.....</td> <td>.....</td> <td>.....</td> </tr> <tr> <td>3. ....</td> <td>.....</td> <td>.....</td> <td>.....</td> </tr> <tr> <td>4. ....</td> <td>.....</td> <td>.....</td> <td>.....</td> </tr> </tbody> </table>	Name	Nationality	Citizenship details	Shares	1. ....	.....	.....	.....	2. ....	.....	.....	.....	3. ....	.....	.....	.....	4. ....	.....	.....	.....
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3. ....	.....	.....	.....																		
4. ....	.....	.....	.....																		
	<p>Date.....Signature of Candidate.....</p>																				

# QUALIFICATION INFORMATION

## 1. Individual Tenderers or Individual Members of Joint Ventures

1.1 Constitution or legal status of tenderer (attach copy or Incorporation Certificate);

Place of registration: \_\_\_\_\_

Principal place of business \_\_\_\_\_

Power of attorney of signatory of tender \_\_\_\_\_

1.2 Total annual volume of construction work performed in the last five years

Year	Volume	
	Currency	Value

1.3 Work performed as Main Contractor on works of a similar nature and volume over the last five years. Also list details of work under way or committed, including expected completion date.

Project name	Name of client and contact person	Type of work performed and year of completion	Value of Contract

1.4 Major items of Contractor's Equipment proposed for carrying out the Works. List all information requested below.

Item of Equipment	Description, Make and age (years)	Condition(new, good, poor) and number available	Owned, leased (from whom?), or to be purchased (from whom?)
(etc.)			

1.5 Qualifications and experience of key personnel proposed for administration and execution of the Contract. Attach biographical data.

Position	Name	Years of experience (general)	Years of experience in proposed position
Project Manager			
(etc.)			

1.6 Financial reports for the last five years: balance sheets, profit and loss statements, auditor's reports, etc. List below and attach copies.

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1.7 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List below and attach copies of supportive documents.

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1.8 Name, address and telephone, telex and facsimile numbers of banks that may provide reference if contacted by the Employer.

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1.9 Statement of compliance with the requirements of Clause 1.2 of the Instructions to Tenderers.

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1.10 Proposed program (work method and schedule) for the whole of the Works.

## **2. Joint Ventures**

2.4 The information listed in 1.1 - 1.10 above shall be provided for each partner of the joint venture.

2.5 The information required in 1.11 above shall be provided for the joint venture.

2.6 Attach the power of attorney of the signatory(ies) of the tender authorizing signature of the tender on behalf of the joint venture

2.7 Attach the Agreement among all partners of the joint venture ( and which is legally binding on all partners), which shows that:

a) all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms;

b) one of the partners will be nominated as being in charge, authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the joint venture; and

c) the execution of the entire Contract, including payment, shall be done exclusively with the partner in charge.

# TENDER QUESTIONNAIRE

Please fill in block letters.

1. Full names of tenderer;

.....

2. Full address of tenderer to which tender correspondence is to be sent (unless an agent has been appointed below);

.....

3. Telephone number (s) of tenderer;

.....

4. Telex of tenderer;

.....

5. Name of tenderer's representative to be contacted on matters of the tender during the tender period;

.....

6. Details of tenderer's nominated agent (if any) to receive tender notices. This is essential if the tenderer does not have his registered address in Kenya (name, address, telephone, telex);

.....

.....

\_\_\_\_\_

Signature of Tenderer

Make copy and deliver to: \_\_\_\_\_ (*Name of Employer*)

**LETTER OF NOTIFICATION OF AWARD**

Address of Procuring Entity

\_\_\_\_\_

\_\_\_\_\_

To: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

RE: Tender No. \_\_\_\_\_

Tender Name \_\_\_\_\_

This is to notify that the contract/s stated below under the above mentioned tender have been awarded to you.

\_\_\_\_\_

\_\_\_\_\_

1. Please acknowledge receipt of this letter of notification signifying your acceptance.
2. The contract/contracts shall be signed by the parties within 30 days of the date of this letter but not earlier than 14 days from the date of the letter.
3. You may contact the officer(s) whose particulars appear below on the subject matter of this letter of notification of award.

*(FULL PARTICULARS)* \_\_\_\_\_

\_\_\_\_\_

SIGNED FOR ACCOUNTING OFFICER

**REPUBLIC OF KENYA**  
**PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD**

APPLICATION NO.....OF.....20.....

BETWEEN

.....APPLICANT

AND

.....RESPONDENT (*Procuring Entity*)

Request for review of the decision of the..... (*Name of the Procuring Entity*) of .....dated the...day of .....20.....in the matter of Tender No.....of .....20...

**REQUEST FOR REVIEW**

I/We.....,the above named Applicant(s), of address: Physical address.....Fax No.....Tel. No.....Email ....., hereby request the Public Procurement Administrative Review Board to review the whole/part of the above mentioned decision on the following grounds , namely:-

- 1.
- 2.
- etc.

By this memorandum, the Applicant requests the Board for an order/orders that: -

- 1.
- 2.
- etc

SIGNED .....(Applicant)

Dated on.....day of ...../...20...

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**FOR OFFICIAL USE ONLY**

Lodged with the Secretary Public Procurement Administrative Review Board on ..... day of .....20.....

**SIGNED**  
**Board Secretary**

## **BILL OF QUANTITIES FOR DRILLING AND EQUIPING OF BOREHOLES WITH HAND PUMPS**

### ***LOT 5:***

- (i) Nyabongo – 200M***
- (ii) Riamang'ata – 150M***
- (iii) Igorera – 180M***
- (iv) Kimai – 120M***
- (v) Endereti – 200M***



# 1. BILL OF QUANTITIES FOR DRILLING AND EQUIPPING NYABONGO

## BOREHOLE 200 METRE DEEP

### 1. BOREHOLE DRILLING

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.1	Mobilization of drilling unit to site, erect at position of borehole, dismantle and demobilization after completion	L.S	1		
1.2	Provide all other plants equipments, stores, personnel, material and all required supplies necessary for carrying out and remove from site on completion	L.S	1		
1.3	Drilling of a borehole of sufficient Dia to provide for finished cased Dia of 152mm(drilling of a 8 <sup>1</sup> / <sub>2</sub> "D hole - From surface to 100m	M	100		
1.4	-From 100-200m	M	100		
1.5	Supply and install 152mm plain steel casings	M	134		
1.6	Supply and install 152mm slotted steel casing	M	66		
1.7	Supply and install gravel	M	15		
1.8	Insertion of inert material and grouting at upper annular space	L.S.	L.S.		
1.9	Form concrete surface plug around the casing (1m x 1m)	Item	1		
1.10	Well development using air jetting	Hr	4		
1.11	Installation and removal of test pumping unit	Hr	4		
1.12	Test pumping including Recovery	Hr	24		
1.13	Geological sampling and report	L.S.	1		

1.14	Full chemical and bacteriological analysis	L.S.	1		
1.15	Supply and install well cap	L.S.	1		
<b>1.16</b>	<b>Allow for Supervision</b>	<b>L.S.</b>	<b>L.S.</b>	<b>100,000</b>	<b>100,000</b>
<b>1.17</b>	<b>Public Participation</b>	<b>L.S</b>	<b>L.S</b>	<b>50,000</b>	<b>50,000</b>
<b>2.0</b>	<b>EQUIPPING OF THE BOREHOLE</b>				
2.1.	Supply stainless Afridev Handpump complete with accessories/ Tool Kit	No	1		
2.2	Supply 1 1/4 " Class 'B' uPVC Pipes(3m)	No.	20		
2.3	Field labor and transport charges	L.S.	1		
				<b>TOTAL Kshs</b>	

**2. BILL OF QUANTITIES FOR DRILLING AND EQUIPPING OF RIAMANG'ATA  
BOREHOLE 150 METRE DEPTH**

**1. BOREHOLE DRILLING**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.1	Mobilization of drilling unit to site, erect at position of borehole, dismantle and demobilization after completion	L.S	1		
1.2	Provide all other plants equipments, stores, personnel, material and all required supplies necessary for carrying out and remove from site on completion	L.S	1		
1.3	Drilling of a borehole of sufficient Dia to provide for finished cased Dia of 152mm(drilling of a 8 <sup>1</sup> / <sub>2</sub> 'D hole - From surface to 100m	M	100		
1.4	-From 100 to 150m	M	50		
1.5	Supply and install 152mm plain steel casings	M	100		
1.6	Supply and install 152mm slotted steel casing	M	50		
1.7	Supply and install gravel	M	15		
1.8	Insertion of inert material and grouting at upper annular space	L.S.	L.S.		
1.9	Form concrete surface plug around the casing (1m x 1m)	Item	1		
1.10	Well development using air jetting	Hr	4		
1.11	Installation and removal of test pumping unit	Hr	4		
1.12	Test pumping including Recovery	Hr	24		
1.13	Geological sampling and report	L.S.	1		
1.14	Full chemical and bacteriological analysis	L.S.	1		
1.15	Supply and install well cap	L.S.	1		
<b>1.16</b>	<b>Allow for Supervision</b>	<b>L.S.</b>	<b>L.S.</b>	<b>100,000</b>	<b>100,000</b>
<b>1.17</b>	<b>Public participation</b>	<b>L.S.</b>	<b>L.S.</b>	<b>50,000</b>	<b>50,000</b>
		<b>Sub-total KShs</b>			

2.0	<b>BOREHOLE EQUIPPING-HANDPUMP</b>				
2.1.	Supply stainless Afridev Handpump complete with accessories and Tool Kit	No	1		
2.2	Supply 1 1/4 " Class 'B' uPVC Pipes(3m)	No.	20		
2.3	Field labor and transport charges	L.S.	1		
<b>TOTAL Kshs</b>					

**3. BILL OF QUANTITIES FOR DRILLING AND EQUIPPING OF IGORERA  
BOREHOLE 180 METRE DEPTH**

**1. BOREHOLE DRILLING**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.1	Mobilization of drilling unit to site, erect at position of borehole, dismantle and demobilization after completion	L.S	1		
1.2	Provide all other plants equipments, stores, personnel, material and all required supplies necessary for carrying out and remove from site on completion	L.S	1		
1.3	Drilling of a borehole of sufficient Dia to provide for finished cased Dia of 152mm(drilling of a 8 <sup>1</sup> / <sub>2</sub> ‘‘D hole - From surface to 100m	M	10		
1.4	-From 100 to 180m	M	80		
1.5	Supply and install 152mm plain steel casings	M	120		
1.6	Supply and install 152mm slotted steel casing	M	60		
1.7	Supply and install gravel	M	18		
1.8	Insertion of inert material and grouting at upper annular space	L.S.	L.S.		
1.9	Form concrete surface plug around the casing (1m x 1m)	Item	1		
1.10	Well development using air jetting	Hr	4		
1.11	Installation and removal of test pumping unit	Hr	4		

1.12	Test pumping including Recovery	Hr	24		
1.13	Geological sampling and report	L.S.	1		
1.14	Full chemical and bacteriological analysis	L.S.	1		
1.15	Supply and install well cap	L.S.	1		
<b>1.16</b>	<b>Allow for Supervision</b>	<b>L.S.</b>	<b>L.S.</b>	<b>100,000</b>	<b>100,000</b>
<b>1.17</b>	<b>Public participation</b>	<b>L.S.</b>	<b>L.S.</b>	<b>50,000</b>	<b>50,000</b>
		<b>Sub-total KShs</b>			
<b>2</b>	<b>BOREHOLE EQUIPPING-HANDPUMP</b>				
2.1.	Supply stainless Afridev Handpump complete with accessories/ Tool Kit	No	1		
2.2	Supply 1 1/4 " Class 'B' uPVC Pipes(3m)	No.	20		
2.3	Field labor and transport charges	L.S.	1		
		<b>Sub-total Kshs</b>			

### 3. BILL OF QUANTITIES FOR DRILLING AND EQUIPPING KIMAI BOREHOLE 120 METRE DEEP

#### 1. BOREHOLE DRILLING

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.1	Mobilization of drilling unit to site, erect at position of borehole, dismantle and demobilization after completion	L.S	1		
1.2	Provide all other plants equipments, stores, personnel, material and all required supplies necessary for carrying out and remove from site on completion	L.S	1		
1.3	Drilling of a borehole of sufficient Dia to provide for finished cased Dia of 152mm(drilling of a 8 <sup>1</sup> / <sub>2</sub> "D hole - From surface to 100m	M	100		
1.4	-From 100 to 120m	M	20		
1.5	Supply and install 152mm plain steel casings	M	80		
1.6	Supply and install 152mm slotted steel casing	M	40		
1.7	Supply and install gravel	M	12		
1.8	Insertion of inert material and grouting at upper annular space	L.S.	L.S.		
1.9	Form concrete surface plug around the casing (1m x 1m)	Item	1		

1.10	Well development using air jetting	Hr	4		
1.11	Installation and removal of test pumping unit	Hr	4		
1.12	Test pumping including Recovery	Hr	24		
1.13	Geological sampling and report	L.S.	1		
1.14	Chemical/bacteriological analysis	L.S.	1		
1.15	Supply and install well cap	L.S.	1		
<b>1.16</b>	<b>Allow for Supervision</b>	<b>L.S.</b>	<b>L.S.</b>	<b>100,000</b>	<b>100,000</b>
<b>1.17</b>	<b>Public participation</b>	<b>L.S.</b>	<b>L.S.</b>	<b>50,000</b>	<b>50,000</b>
		<b>Sub-total KShs</b>			
<b>2</b>	<b>BOREHOLE EQUIPPING-HANDPUMP</b>				
2.1.	Supply stainless Afridev Handpump complete with accessories/ Tool Kit	No	1		
2.2	Supply 1 1/4 " Class 'B' µPVC Pipes(3m)	No.	20		
2.3	Field labor and transport charges	L.S.	1		
				<b>TOTAL Kshs</b>	



**5. BILL OF QUANTITIES FOR DRILLING AND EQUIPPING ENDERETI  
BOREHOLE 200 METRE DEEP**

**1. BOREHOLE DRILLING**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.1	Mobilization of drilling unit to site, erect at position of borehole, dismantle and demobilization after completion	L.S	1		
1.2	Provide all other plants equipments, stores, personnel, material and all required supplies necessary for carrying out and remove from site on completion	L.S	1		
1.3	Drilling of a borehole of sufficient Dia to provide for finished cased Dia of 152mm(drilling of a 8 <sup>1</sup> / <sub>2</sub> "D hole - From surface to 100m	M	100		
1.4	-From 100-200m	M	100		
1.5	Supply and install 152mm plain steel casings	M	134		
1.6	Supply and install 152mm slotted steel casing	M	66		
1.7	Supply and install gravel	M	15		
1.8	Insertion of inert material and grouting at upper annular space	L.S.	L.S.		
1.9	Form concrete surface plug around the casing (1m x 1m)	Item	1		
1.10	Well development using air jetting	Hr	4		
1.11	Installation and removal of test pumping unit	Hr	4		
1.12	Test pumping including Recovery	Hr	24		

1.13	Geological sampling and report	L.S.	1		
1.14	Full chemical and bacteriological analysis	L.S.	1		
1.15	Supply and install well cap	L.S.	1		
<b>1.16</b>	<b>Allow for Supervision</b>	<b>L.S.</b>	<b>L.S.</b>	<b>100,000</b>	<b>100,000</b>
<b>1.17</b>	<b>Public Participation</b>	<b>L.S.</b>	<b>L.S.</b>	<b>50,000</b>	<b>50,000</b>
<b>2.0</b>	<b>EQUIPPING OF THE BOREHOLE</b>				
2.1.	Supply stainless Afridev Handpump complete with accessories/ Tool Kit	No	1		
2.2	Supply 1 1/4 " Class 'B' uPVC Pipes(3m)	No.	20		
2.3	Field labor and transport charges	L.S.	1		
				<b>TOTAL Kshs</b>	