

REPUBLIC OF KENYA



COUNTY ASSEMBLY OF SIAYA

STANDARD TENDER DOCUMENT

FOR

PROCUREMENT OF WORKS

**TENDER FOR PROPOSED DRILLING, EQUIPPING OF
BOREHOLES & CONSTRUCTION OF WATER KIOSKS
TENDER NO: CAS/WATER/LOT/1/2020-2021**

IFMIS NEGOTIATION NO: 820610

CLOSING DATE: 17TH SEPTEMBER, 2020

**TENDERS MUST BE SUBMITTED THROUGH THE IFMIS
SUPPLIERS PORTAL: supplier.treasury.go.ke**

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INTRODUCTION

- 1.1 This standard tender document for procurement of works has been prepared for use by procuring entities in Kenya in the procurement of works (i.e. Roads, Bridges, Airports and Dams).
- 1.2 The following guidelines should be observed when using the document:-
 - (a) Specific details should be furnished in the tender notice and in the special conditions of contract (where applicable). The tender document issued to tenderers should not have blank spaces or options.
 - (b) The instructions to tenderers and the General Conditions of Contract should remain unchanged. Any necessary amendments to these parts should be made through Appendix to instructions to tenderers and special conditions of contract respectively.
- 1.3
 - (a) Information contained in the invitation to tender shall conform to the data and information in the tender documents to enable prospective tenderers to decide whether or not to participate in the tender and shall indicate any important tender requirements
 - (b) The invitation to tender shall be as an advertisement in accordance with the regulations or a letter of invitation addressed to tenderers who have been prequalified following a request for prequalification.
- 1.4 This document is based on PART 1 of the latest Edition of the International Federation of Consulting Engineers (Federation Internationale des Ingenieurs Con Seils – FIDIC) General Conditions of Contract for works of Civil Engineering.
- 1.5 The cover of the tender document should be modified to include -:
 - i. Tender number.
 - ii. Tender name.
 - iii. Name of procuring entity.
 - iv. Delete name and address of PPOA.

SECTION I

INVITATION FOR TENDERS

DATE: 2ND SEPTEMBER, 2020

Tender reference No: CAS/WATER/LOT/1/2020-2021.

Tender Name: PROPOSED DRILLING, EQUIPPING OF BOREHOLES & CONSTRUCTION OF WATER KIOSKS

- 1.1 The County Assembly of Siaya invites sealed tenders for the Proposed Drilling, Equipping of boreholes & Construction of Water Kiosks within 30 Siaya County Ward Offices
- 1.2 Interested eligible candidates may obtain further information and inspect and download tender documents from County Assembly Website: www.siayaassembly.go.ke
- 1.3 A complete set of tender documents may be obtained by interested candidates **free of charge** from County Assembly Website: www.siayaassembly.go.ke
- 1.4 Prices quoted should be net inclusive of all taxes, must be in Kenya shillings and shall remain valid for (90) days from the closing date of tender.
- 1.5 Completed tender documents are to be enclosed in plain sealed envelopes marked with Tender name and reference number and deposited in the Tender Box at the **1st floor of Siaya Assembly headquarter building in Siaya Town** or to be addressed to the **Clerk County Assembly of Siaya, P.O.Box 7-40600 Siaya** so as to be received on or before **17TH SEPTEMBER, 2020 at 12.00 noon.**
- 1.6 Tenders will be opened immediately thereafter in the presence of the candidates or their representatives who choose to attend at Boardroom II.

ERIC O. OGENGA
AG. COUNTY ASSEMBLY CLERK

SECTION II - INSTRUCTIONS TO TENDERERS

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SECTION II - INSTRUCTION TO TENDERERS

Note: The tenderer must comply with the following conditions and instructions and failure to do so is liable to result in rejection of the tender.

GENERAL

1. Definitions

- (a) “Tenderer” means any persons, partnership firm or company submitting a sum or sums in the Bills of Quantities in accordance with the Instructions to Tenderers, Conditions of Contract Parts I and II, Specifications, Drawings and Bills of Quantities for the work contemplated, acting directly or through a legally appointed representative.
- (b) “Approved tenderer” means the tenderer who is approved by the Employer
- (c) Any noun or adjective derived from the word “tender” shall be read and construed to mean the corresponding form of the noun or adjective “bid”. Any conjugation of the verb “tender” shall be read and construed to mean the corresponding form of the verb “bid.”
- (d) “Employer” means a Central Government Ministry, Local Authority, State Corporation or any other Public Institution.

2. Eligibility and Qualification Requirements

2.1 Eligibility requirements

This invitation to tender is open to all tenderers who are qualified as stated in the appendix.

2.2 Qualification Requirements

To be qualified for award of Contract, the tenderer shall provide evidence satisfactory to the Employer of their eligibility under Sub clause 2.1. above and of their capability and adequacy of resources to effectively carry out the subject Contract. To this end, the tenderer shall be required to update the following information already submitted during prequalification:-

- (a) Details of experience and past performance of the tenderer on the works of a similar nature and details of current work on hand and other contractual commitments.
- (b) The qualifications and experience of key personnel proposed for administration and execution of the contract, both on and off site.

- (c) Major items of construction plant and equipment proposed for use in carrying out the Contract. Only reliable plant in good working order and suitable for the work required of it shall be shown on this schedule. The tenderer will also indicate on this schedule when each item will be available on the Works. Included also should be a schedule of plant, equipment and material to be imported for the purpose of the Contract, giving details of make, type, origin and CIF value as appropriate.
- (d) Details of sub contractors to whom it is proposed to sublet any portion of the Contract and for whom authority will be requested for such subletting in accordance with clause 4 of the Condition of Contract.
- (e) A draft Program of Works in the form of a bar chart and Schedule of Payment which shall form part of the Contract if the tender is accepted. Any change in the Program or Schedule shall be subjected to the approval of the Engineer.
- (f) Details of any current litigation or arbitration proceedings in which the tenderer is involved as one of the parties.

2.3 Joint Ventures

Tenders submitted by a joint venture of two or more firms as partners shall comply with the following requirements:-

- (a) The tender, and in case of a successful tender, the Form of Agreement, shall be signed so as to be legally binding on all partners
- (b) One of the partners shall be nominated as being in charge, and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the partners
- (c) The partner in charge shall be authorized to incur liabilities and receive instructions for an on behalf of any and all partners of the joint venture and the entire execution of the Contract including payment shall be done exclusively with the partner in charge.
- (d) All partners of the joint venture shall be liable jointly and severally for the execution of the Contract in accordance with the Contract terms, and a relevant statement to this effect shall be included in the authorization mentioned under (b) above as well as in the Form of Tender and the Form of Agreement (in case of a successful tender)
- (e) A copy of the agreement entered into by the joint venture partners shall be submitted with the tender.

3. Cost of Tendering

- 3.1 The Tenderer shall bear all costs associated with the preparation and submission of his tender and the Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.
- 3.2 The price to be charged for the tender document shall not exceed Kshs.5,000/=
- 3.3 The procuring entity shall allow the tenderer to view the tender document free of charge before purchase.

4. Site Visit

- 4.1. The tenderer is advised to visit and examine the Site and its surroundings and obtain for himself on his own responsibility, all information that may be necessary for preparing the tender and entering into a contract. The costs of visiting the Site shall be the tenderer's own responsibility
- 4.2. The tenderer and any of his personnel or agents will be granted permission by the Employer to enter upon premises and lands for the purpose of such inspection, but only upon the express condition that the tenderer, his personnel or agents, will release and indemnify the Employer from and against all liability in respect of, and will be responsible for personal injury (whether fatal or otherwise), loss of or damage to property and any other loss, damage, costs and expenses however caused, which but for the exercise of such permission, would not have arisen.
- 4.3. The Employer shall organize a site visit at a date to be notified. A representative of the Employer will be available to meet the intending tenderers at the Site.
Tenderers must provide their own transport. The representative will not be available at any other time for site inspection visits.

Each tenderer shall complete the Certificate of Tenderer's Visit to the Site, whether he in fact visits the Site at the time of the organized site visit or by himself at some other time.

TENDER DOCUMENTS

5 Tender Documents

- 5.1 The Tender documents comprise the documents listed here below and should be read together with any Addenda issued in accordance with Clause 7 of these instructions to tenderers.
- a. Form of Invitation for Tenders
 - b. Instructions to Tenderers
 - c. Form of Tender
 - d. Appendix to Form of Tender
 - e. Form of Tender Surety
 - f. Statement of Foreign Currency Requirements
 - g. Tender and Confidential Business Questionnaires
 - h. Details of Sub contractors
 - i. Schedules of Supplementary Information
 - j. General Conditions of Contract – Part I
 - k. Conditions of Particular Application – Part II
 - l. Specifications
 - m. Bills of Quantities
 - n. Drawings
 - o. Declaration Form
- 5.2 The tenderer is expected to examine carefully all instructions, conditions, forms, terms, specifications and drawings in the tender documents. Failure to comply with the requirements for tender submission will be at the tenderer's own risk. Pursuant to clause 22 of Instructions to Tenderers, tenders which are not substantially responsive to the requirements of the tender documents will be rejected.
- 5.3 All recipients of the documents for the proposed Contract for the purpose of submitting a tender (whether they submit a tender or not) shall treat the details of the documents as "private and confidential".

6 Inquiries by tenderers

- 6.1 A tenderer making an inquiry relating to the tender document may notify the Employer in writing or by telex, cable or facsimile at the Employer's mailing address indicated in the Invitation to Tender. The Employer will respond in writing to any request for clarification which he receives earlier than 7 days prior to the deadline for the submission of tenders. Written copies of the Employer's response (including the query but without identifying the source of the inquiry) will be sent to all prospective tenderers who have purchased the tender documents.
- 6.2 The procuring entity shall reply to any clarifications sought by the tenderer within 3 days of receiving the request to enable the tenderer to make timely submission of its tender.

7 Amendment of Tender Documents

- 7.1 At any time prior to the deadline for submission of tenders the Employer may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective tenderer, modify the tender documents by issuing Addenda.
- 7.2 Any Addendum will be notified in writing or by cable, telex or facsimile to all prospective tenderers who have purchased the tender documents and will be binding upon them.
- 7.3 In order to allow prospective tenderers reasonable time in which to take the Addendum into account in preparing their tenders, the Employer may, at his discretion, extend the deadline for the submission of tenders.

PREPARATION OF TENDERS

8 Language of Tender

- 8.1 The tender and all correspondence and documents relating to the tender exchanged between the tenderer and the Employer shall be written in the English language. Supporting documents and printed literature furnished by the tenderer with the tender may be in another language provided they are accompanied by an appropriate translation of pertinent passages in the above stated language. For the purpose of interpretation of the tender, the English language shall prevail.

9 Documents Comprising the Tender

- 9.1 The tender to be prepared by the tenderer shall comprise:
- i. the Form of Tender and Appendix thereto,
 - ii. a Tender Security
 - iii. the Priced Bills of Quantities and Schedules
 - iv. the information on eligibility and qualification
 - v. any other materials required to be completed and submitted in accordance with the Instructions to Tenderers.

The Forms, Bills of Quantities and Schedules provided in the tender documents shall be used without exception (subject to extensions of the schedules in the same format and to the provisions of clause 13.2 regarding the alternative forms of Tender Surety].

10 Tender Prices

- 10.1 All the insertions made by the tenderer shall be made in INK and the tenderer shall clearly form the figures. The relevant space in the Form of Tender and Bills of Quantities shall be completed accordingly without interlineations or erasures except those necessary to correct errors made by the tenderer in which case the erasures and interlineations shall be initialed by the person or persons signing the tender.

- 10.2 A price or rate shall be inserted by the tenderer for every item in the Bills of Quantities whether the quantities are stated or not. Items against which no rate or price is entered by the tenderer will not be paid for by the Employer when executed and shall be deemed covered by the rates for other items and prices in the Bills of Quantities.

The prices and unit rates in the Bills of Quantities are to be the full [all-inclusive] value of the Work described under the items, including all costs and expenses which may be necessary and all general risks, liabilities and obligations set forth or implied in the documents on which the tender is based. All duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause prior to the deadline for submission of tenders, shall be included in the rates and prices and the total Tender Price submitted by the tenderer.

Each price or unit rate inserted in the Bills of Quantities should be a realistic estimate for completing the activity or activities described under that particular item and the tenderer is advised against inserting a price or rate against any item contrary to this instruction.

Every rate entered in the Bills of Quantities, whether or not such rate be associated with a quantity, shall form part of the Contract. The Employer shall have the right to call for any item of work contained in the Bills of Quantities, and such items of work to be paid for at the rate entered by the tenderer and it is the intention of the Employer to take full advantage of unbalanced low rates.

- 10.3 Unless otherwise specified the tenderer must enter the amounts representing 10% of the sub-total of the summary of the Bills of Quantities for Contingencies and Variation of Prices[V.O.P.] payments in the summary sheet and add them to the sub-total to arrive at the tender amount.
- 10.4 The tenderer shall furnish with his tender written confirmation from his suppliers or manufacturers of basic unit rates for the supply of items listed in the Conditions of Contract clause 70 where appropriate. The Employer may require the tenderer to justify such rates so obtained from the suppliers or manufacturers.
- 10.5 The rates and prices quoted by the tenderer are subject to adjustment during the performance of the Contract only in accordance with the Provisions of the Conditions of Contract. The tenderer shall complete the schedule of basic rates and shall submit with his tender such other supporting information as required under clause 70 of the Conditions of Contract Part II.
- 10.6 Contract price variations shall not be allowed within the first 12 months of the contract.

- 10.7 Where quantity contract variation is allowed, the variation shall not exceed 15% of the original contract quantity.
- 10.8 Price variation requests shall be processed by the procuring entity within 30 days of receiving the request.

11 Currencies of Tender and Payment

- 11.1 Tenders shall be priced in Kenya Shillings and the tender sum shall be in Kenya Shillings.
- 11.2 Tenderers are required to indicate in the Statement of Foreign Currency Requirements, which forms part of the tender, the foreign currency required by them. Such currency should generally be the currency of the country of the tenderer's main office. However, if a substantial portion of the tenderer's expenditure under the Contract is expected to be in countries other than his country of origin, then he may state a corresponding portion of the contract price in the currency of those other countries. However, the foreign currency element is to be limited to two (2) different currencies and a maximum of 30% (thirty percent) of the Contract Price.
- 11.3 The rate or the rates of exchange used for pricing the tender shall be the selling rate or rates of the Central Bank ruling on the date thirty (30) days before the final date for the submission of tenders.
- 11.4 Tenderers must enclose with their tenders, a brief justification of the foreign currency requirements stated in their tenders.

12 Tender Validity

- 12.1 The tender shall remain valid and open for acceptance for a period of sixty (60) days from the specified date of tender opening or from the extended date of tender opening (in accordance with clause 7.4 here above) whichever is the later.
- 12.2 In exceptional circumstances prior to expiry of the original tender validity period, the Employer may request the tenderer for a specified extension of the period of validity. The request and the responses thereto shall be made in writing or by cable, telex or facsimile. A tenderer may refuse the request without forfeiting his Tender Surety. A tenderer agreeing to the request will not be required nor permitted to modify his tender, but will be required to extend the validity of his Tender Surety correspondingly.

13 Tender Security

- 13.1 The tenderer shall furnish as part of his tender, a Tender Security in the amount and form stated in the Appendix to Instructions to Tenderers.
- 13.2 The tender security shall not exceed 2 percent of the tender price.
- 13.3 The Tender Security shall be valid at least thirty (30) days beyond the tender validity period.
- 13.4 Any tender not accompanied by an acceptable Tender Surety will be rejected by the Employer as non-responsive.
- 13.5 The Tender Sureties of unsuccessful tenderers will be returned as promptly as possible but not later than twenty eight (28) days after expiration of the tender validity period. The Tender Surety of the successful tenderer will be returned upon the tenderer executing the Contract and furnishing the required Performance Security.
- 13.6 The Tender Surety may be forfeited:
 - a) if a tenderer withdraws his tender during the period of tender validity: or
 - b) in the case of a successful tenderer, if he fails, within the specified time limit
 - i. to sign the Agreement, or
 - ii. to furnish the necessary Performance Security
 - c) if a tenderer does not accept the correction of his tender price pursuant to clause 23.

14 No Alternative Offers

- 14.1 The tenderer shall submit an offer which complies fully with the requirements of the tender documents unless otherwise provided for in the appendix.

Only one tender may be submitted by each tenderer either by himself or as partner in a joint venture. A tenderer who submits or participates in more than one tender will be disqualified.

- 14.2 The tenderer shall not attach any conditions of his own to his tender. The tender price must be based on the tender documents. The tenderer is not required to present alternative construction options and he shall use without exception, the Bills of Quantities as provided, with the amendments as notified in tender notices, if any, for the calculation of his tender price. Any tenderer who fails to comply with this clause will be disqualified.

15 Pre-tender Meeting

- 15.1 If a pre-tender meeting is convened, the tenderer's designated representative is invited to attend at the venue and time in the Invitation to Tender. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 15.2 The tenderer is requested as far as possible to submit any questions in writing or by cable, to reach the Employer not later than seven (7) days before the meeting. It may not be practicable at the meeting to answer questions received late, but questions and responses will be transmitted in accordance with the following:
- (a) Minutes of the meeting, including the text of the questions raised and the responses given together with any responses prepared after the meeting, will be transmitted without delay to all purchasers of the tender documents. Any modification of the tender documents listed in – Clause 9 which may become necessary as a result of the pre-tender meeting shall be made by the Employer exclusively through the issue of a tender notice pursuant to Clause 7 and not through the minutes of the pre-tender meeting.
 - (b) Non attendance at the pre-bid meeting will not be cause for disqualification of a bidder.

16 Format and Signing of Tenders

- 16.1 The tenderer shall prepare his tender as outlined in clause 9 above and mark appropriately one set "ORIGINAL" and the other "COPY".
- 16.2 The copy of the tender and Bills of Quantities shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the tenderer. All pages of the tender where amendments have been made shall be initialed by the person or persons signing the tender.
- 16.3 The complete tender shall be without alterations, interlineations or erasures, except as necessary to correct errors made by the tenderer, in which case such corrections shall be initialed by the person or persons signing the tender.

SUBMISSION OF TENDERS

17 Sealing and Marking of Tenders

- 17.1 The tenderer shall seal the original and copy of the tender in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY". The envelopes shall then be sealed in an outer separate envelope.

- 17.2 The inner and outer envelopes shall be addressed to the Employer at the address stated in the Appendix to Instructions to Tenderers and bear the name and identification of the Contract stated in the said Appendix with a warning not to open before the date and time for opening of tenders stated in the said Appendix.
- 17.3 The inner envelopes shall each indicate the name and address of the tenderer to enable the tender to be returned unopened in case it is declared “late”, while the outer envelope shall bear no mark indicating the identity of the tenderer.
- 17.4 If the outer envelope is not sealed and marked as instructed above, the Employer will assume no responsibility for the misplacement or premature opening of the tender. A tender opened prematurely for this cause will be rejected by the Employer and returned to the tenderer.

18 Deadline for Submission of Tenders

- 18.1 Tenders must be received by the Employer at the address specified in clause 17.2 and on the date and time specified in the Letter of Invitation, subject to the provisions of clause 7.4, 18.2 and 18.3.

Tenders delivered by hand must be placed in the “tender box” provided in the office of the Employer.

Proof of posting will not be accepted as proof of delivery and any tender delivered after the above stipulated time, from whatever cause arising will not be considered.

- 18.2 The Employer may, at his discretion, extend the deadline for the submission of tenders through the issue of an Addendum in accordance with clause 7, in which case all rights and obligations of the Employer and the tenderers previously subject to the original deadline shall thereafter be subject to the new deadline as extended.

- 18.3** Any tender received by the Employer after the prescribed deadline for submission of tender will be returned unopened to the tenderer.

19 Modification and Withdrawal of Tenders

- 19.1 The tenderer may modify or withdraw his tender after tender submission, provided that written notice of the modification or withdrawal is received by the Employer prior to prescribed deadline for submission of tenders.

- 19.2 The tenderer’s modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions for the submission of tenders, with the inner and outer envelopes

additionally marked “MODIFICATION” or “WITHDRAWAL” as appropriate.

- 19.3 No tender may be modified subsequent to the deadline for submission of tenders.
- 19.4 No tender may be withdrawn in the interval between the deadline for submission of tenders and the period of tender validity specified on the tender form. Withdrawal of a tender during this interval will result in the forfeiture of the Tender Surety.
- 19.5 Subsequent to the expiration of the period of tender validity prescribed by the Employer, and the tenderer having not been notified by the Employer of the award of the Contract or the tenderer does not intend to conform with the request of the Employer to extend the period of tender validity, the tenderer may withdraw his tender without risk of forfeiture of the Tender Surety.

TENDER OPENING AND EVALUATION

20 Tender Opening

- 20.1 The Employer will open the tenders in the presence of the tenderers’ representatives who choose to attend at the time and location indicated in the Letter of Invitation to Tender. The tenderers’ representatives who are present shall sign a register evidencing their attendance.
- 20.2 Tenders for which an acceptable notice of withdrawal has been submitted, pursuant to clause 19, will not be opened. The Employer will examine the tenders to determine whether they are complete, whether the requisite Tender Sureties have been furnished, whether the documents have been properly signed and whether the tenders are generally in order.
- 20.3 At the tender opening, the Employer will announce the tenderer’s names, total tender price, tender price modifications and tender withdrawals, if any, the presence of the requisite Tender Surety and such other details as the Employer, at his discretion, may consider appropriate. No tender shall be rejected at the tender opening except for late tenders.
- 20.4 The Employer shall prepare minutes of the tender opening including the information disclosed to those present.
- 20.5 Tenders not opened and read out at the tender opening shall not be considered further for evaluation, irrespective of the circumstances.

21 Process to be Confidential

- 21.1 After the public opening of tenders, information relating to the examination, clarification, evaluation and comparisons of tenders and recommendations concerning the award of Contract shall not be disclosed to tenderers or other persons not officially concerned with such process until the award of Contract is announced.
- 21.2 Any effort by a tenderer to influence the Employer in the process of examination, evaluation and comparison of tenders and decisions concerning award of Contract may result in the rejection of the tenderer's tender.

22 Clarification of Tenders

- 22.1 To assist in the examination, evaluation and comparison of tenders, the Employer may ask tenderers individually for clarification of their tenders, including breakdown of unit prices. The request for clarification and the response shall be in writing or by cable, facsimile or telex, but no change in the price or substance of the tender shall be sought, offered or permitted except as required to confirm the correction of arithmetical errors discovered by the employer during the evaluation of the tenders in accordance with clause 24.
- 22.2 No tenderer shall contact the Employer on any matter relating to his tender from the time of the tender opening to the time the Contract is awarded. If the tenderer wishes to bring additional information to the notice of the Employer, he shall do so in writing.

23 Determination of Responsiveness

- 23.1 Prior to the detailed evaluation of tenders, the Employer will determine whether each tender is substantially responsive to the requirements of the tender documents.
- 23.2 For the purpose of this clause, a substantially responsive tender is one which conforms to all the terms, conditions and specifications of the tender documents without material deviation or reservation. A material deviation or reservation is one which affects in any substantial way the scope, quality, completion timing or administration of the Works to be undertaken by the tenderer under the Contract, or which limits in any substantial way, inconsistent with the tender documents, the Employer's rights or the tenderers obligations under the Contract and the rectification of which would affect unfairly the competitive position of other tenderers who have presented substantially responsive tenders.
- 23.3 Each price or unit rate inserted in the Bills of Quantities shall be a realistic estimate of the cost of completing the works described under the particular item including allowance for overheads, profits and the like. Should a tender be seriously unbalanced in relation to the Employer's estimate of the works to be performed under any item or groups of items, the tender shall be deemed not responsive.

23.4 A tender determined to be not substantially responsive will be rejected by the Employer and may not subsequently be made responsive by the tenderer by correction of the non-conforming deviation or reservation.

24 Correction of Errors

Tenders determined to be substantially responsive shall be checked by the Employer for any arithmetic errors in the

computations and summations. Errors will be corrected by the Employer as follows:

- (a) Where there is a discrepancy between the amount in figures and the amount in words, the amount in words will govern.
- (b) Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will prevail, unless in the opinion of the Employer, there is an obvious typographical error, in which case adjustment will be made to the entry containing that error.
- (c) In the event of a discrepancy between the tender amount as stated in the Form of Tender and the corrected tender figure in the main summary of the Bills of Quantities, the amount as stated in the Form of Tender shall prevail.
- (d) The Error Correction Factor shall be computed by expressing the difference between the tender amount and the corrected tender sum as a percentage of the corrected builder's work (i.e. corrected tender sum less Prime Cost and Provisional Sums).
- (e) The Error Correction Factor shall be applied to all builder's work (as a rebate or addition as the case may be) for the purposes of valuations for Interim Certificates and valuations of variations.
- (f) The amount stated in the tender will be adjusted in accordance with the above procedure for the correction of errors and, with concurrence of the tenderer, shall be considered as binding upon the tenderer. If the tenderer does not accept the corrected amount, the tender may be rejected and the Tender Security may be forfeited in accordance with clause 13.

25 Conversion to Single Currency

25.1 For compensation of tenders, the tender price shall first be broken down into the respective amounts payable in various currencies by

using the selling rate or rates of the Central Bank of Kenya ruling on the date twenty one (21) days before the final date for the submission of tenders.

25.2 The Employer will convert the amounts in various currencies in which the tender is payable (excluding provisional sums but including Dayworks where priced competitively) to Kenya Shillings at the selling rates stated in clause 25.1.

26 Evaluation and Comparison of Tenders

26.1 The Employer will evaluate only tenders determined to be substantially responsive to the requirements of the tender documents in accordance with clause 23.

26.2 In evaluating tenders, the Employer will determine for each tender the evaluated tender price by adjusting the tender price as follows:

- (a) Making any correction for errors pursuant to clause 24.
- (b) Excluding Provisional Sums and provision, if any, for Contingencies in the Bills of Quantities, but including Day works where priced competitively.

26.3 The Employer reserves the right to accept any variation, deviation or alternative offer. Variations, deviations, alternative offers and other factors which are in excess of the requirements of the tender documents or otherwise result in the accrual of unsolicited benefits to the Employer, shall not be taken into account in tender evaluation.

26.4 Price adjustment provisions in the Conditions of Contract applied over the period of execution of the Contract shall not be taken into account in tender evaluation.

26.5 If the lowest evaluated tender is seriously unbalanced or front loaded in relation to the Employer's estimate of the items of work to be performed under the Contract, the Employer may require the tenderer to produce detailed price analyses for any or all items of the Bills of Quantities, to demonstrate the relationship between those prices, proposed construction methods and schedules. After evaluation of the price analyses, the Employer may require that the amount of the Performance Security set forth in clause 29 be increased at the expense of the successful tenderer to a level sufficient to protect the Employer against financial loss in the event of subsequent default of the successful tenderer under the Contract.

26.6 Firms incorporated in Kenya where indigenous Kenyans own 51% or more of the share capital shall be allowed a 10% preferential bias provided that they do not sub-contract work valued at more than 50%

of the Contract Price excluding provisional sums to a non-indigenous sub-contractor.

- 26.7 Preference where allowed in the evaluation of tenders shall not exceed 15%
- 26.8 The procuring entity may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.
- 26.9 The procuring entity shall give prompt notice of the termination to the tenderers and on request give its reasons for termination within 14 days of receiving the request from any tenderer.
- 26.10 A tenderer who gives false information in the tender document about its qualification or who refuses to enter into a contract after notification of contract award shall be considered for debarment from participating in future public procurement.
- 26.11 Poor past performance shall not be used as an evaluation criteria unless specifically provided for in the appendix.

27 **AWARD OF CONTRACT**

Award Criteria

- 27.1 Subject to Sub-clause 27.2, the Employer will award the Contract to the tenderer whose tender is determined to be substantially responsive to the tender documents and who has offered the lowest evaluated tender price subject to possessing the capability and resources to effectively carry out the Contract Works as required in Sub-clause 2.1 and 2.2 hereabove.
- 27.2 The Employer reserves the right to accept or reject any tender, and to annual the tendering process and reject all tenders, at any time prior to award of Contract, without thereby incurring any liability to the affected tenderers or any obligation to inform the affected tenderers of the grounds for the Employer's action.

28 **Notification of Award**

- 28.1 Prior to the expiration of the period of tender validity prescribed by the Employer, the Employer will notify the successful tenderer by cable, telefax or telex and confirmed in writing by registered letter that his tender has been accepted. This letter (hereinafter and in all Contract documents called "Letter of Acceptance") shall name the sum (hereinafter and in all Contract documents called "the Contract Price") which the Employer will pay to the Contractor in consideration of the execution and completion of the Works as prescribed by the Contract.

28.2 At the same time that the Employer notifies the successful tenderer that his tender has been accepted, the Employer shall notify the other tenderers that the tenders have been unsuccessful.

28.3 Within fourteen [14] days of receipt of the Form of Contract Agreement from the Employer, the successful tenderer shall sign the form and return it to the Employer together with the required Performance Security.

28.4 The parties to the contract shall have it signed within 30 days from the date of notification of contract award unless there is an administrative review request.

29 Performance Guarantee

29.1 Within twenty eight [28] days of receipt of the notification of award from the Employer, the successful tenderer shall furnish the Employer with a Performance Security in the amount stated in the Appendix to Instructions to Tenderers and in the format stipulated in the Conditions of Contract.

29.2 The Performance Security to be provided by the successful tenderer shall be an unconditional Bank Guarantee issued at the tenderer's option by a reputable Bank approved by the Employer and located in the Republic of Kenya and shall be divided into two elements namely, a performance security payable in foreign currencies (based upon the exchange rates determined in accordance with clause 60(5) of the Conditions of Contract) and a performance security payable in Kenya Shillings. The value of the two securities shall be in the same proportions of foreign and local currencies as requested in the form of foreign currency requirements.

29.3 Failure of the successful tenderer to lodge the required Performance Security shall constitute a breach of Contract and sufficient grounds for the annulment of the award and forfeiture of the Tender Security and any other remedy under the Contract. The Employer may award the Contract to the next ranked tenderer.

30 Advance Payment

An advance payment, if approved by the Employer, shall be made under the Contract, if requested by the Contractor, in accordance with clause 60(1) of the Conditions of Contract. The Advance Payment Guarantee shall be denominated in the proportion and currencies named in the form of foreign currency requirements. For each currency, a separate guarantee shall be issued. The guarantee shall be issued by a Bank located in the Republic of

Kenya, or a foreign Bank through a correspondent Bank located in the Republic of Kenya, in either case subject to the approval of the Employer.

31 Corrupt or fraudulent practices

- 31.1 The procuring entity requires that tenderers observe the highest standard of ethics during the procurement process and execution of contracts. A tenderer shall sign a declaration that he has not and will not be involved in corrupt or fraudulent practices.

APPENDIX TO INSTRUCTIONS TO TENDERERS

Notes on the Appendix to Instructions to Tenderers

The following appendix to instructions to tenderers shall complement or amend the provisions of the instructions to tenderers (Section II). Wherever there is a conflict between the provisions of the instructions to tenderers and the provisions of the appendix, the provisions of the appendix herein shall prevail over those of the instructions to tenderers.

CLAUSE

- 4 Pre- Tendering Site visit**
Will be COMPULSORY and be recorded in a register. Failure to attend will result in disqualification. Pre-tender Site visits will be for TWO consecutive days on 9th and 10th September, 2020 at 10am. The meeting point will be at the Assembly headquarters in Siaya town.
- 13 Tender Security**
Amount of Tender Security (**bank guarantee**) is Kshs. 2,000,000.00
- 15 Pre-tender meeting**
There will be no pre-tender meeting
- 16** (i) The name and address of the Employer for the purposes of submission of tenders is the **Clerk, County Assembly of Siaya, P.O. Box 7-40600 Siaya.**
- (ii) The name of the proposed Works and where available the Contract Number is PROPOSED **DRILLING, EQUIPPING OF BOREHOLES & CONSTRUCTION OF WATER KIOSKS- CAS/WATER/LOT/1/2020-2021**
- (iii) The tender opening date and time on **Thursday, 17TH SEPTEMBER, 2020.**
- 18 Deadline for submission of tenders**
Tenders **MUST** be submitted through the IFMIS SUPPLIERS PORTAL: www.supplier.treasury.go.ke Deadline for submission is on 17th September, 2020 at 12.00 noon.
- 28 Performance Guarantee**
The amount of Performance Security is at **5%** of the successful contract price and must be in the form of A bank guarantee.
- 30 Advance Payment**
No advance payment will be made under this contract.

TENDER EVALUATION CRITERIA

The following criteria will be used in the evaluation of all bids. The submission of the required documents will be used in the determination of the Completeness and Suitability of the Bid. Bids that do not contain all the information required will be declared non responsive and shall not be evaluated further.

1.1 Mandatory Requirements

<u>No</u>	<u>Description</u>	<u>Pass/Fail</u>
<u>A</u>	Provision of the following documents	
	Certificate of Incorporation/Registration	
	Legally certified CR12	
	Relevant Registration with National Construction Authority NCA 3 or above.	
	Valid NCA practicing license for the Main Contractor.	
	NCA Practicing license for the proposed Site Foreman/ Supervisor	
<u>B</u>	Domestic Sub-contractors Registration should be as below:	
	Electrical NCA 7	
<u>C</u>	Submission of Valid Tax Compliance Certificate	
<u>D</u>	Bid Bond in form of bank guarantee of Ksh 2 million.	
<u>F</u>	Provision of affidavits as indicated below;	
	Sworn Anti-Corruption	
	Litigation History	
	Declaration of not being debarred to participate in Public Tenders	
	Power of Attorney to sign Tender Documents	
<u>G</u>	Duly filled, Signed and Stamped Form of Tender	
<u>H</u>	Duly filled Confidential business questionnaire	

1.2 Other Requirements

No	Description	Weighting Factor
A	Presentation and Response. (This includes binding the Documents & neat presentation, separation and arrangement of requested information & general response to all requirements)	2
B	Relevant past experience for the past five years. At least three similar projects including associating firms' past experience for the same period. Present 3 projects undertaken in the last five years showing the details of projects:- (Type of project, Value, Client, Consultants, duration of the project and Attach Award LPOs/Contracts, Completion Certificates and Recommendation Letters for the same). Magnitude for each project should be at least Kshs 15 million and above	25
C	Company Profile with detailed Company Organization Chart and Site Organization Chart. The Charts to include Name of Officers, Positions, Qualifications and Provide CV and Certificates for relevant officers e.g. Degree in Water Engineering, Civil/Structural, Building, Architect and Quantity Surveyor etc.	8
D	Financial Ability and Capability to Finance the Works as borne from Audited Accounts for the past three (2) years. The aggregate turnover of Kshs.60,000,000.00 for the past two years. OR Evidence of availability of Credit Facilities from Bank for at least ksh (10) million and above.	15
E	Evidence of Workmen Compensation Insurance, Legally Certified true copies of NSSF and NHIF Valid Compliant Certificates.	10
F	Certificate of Registration of Work Place, Proposed site Safety Policy, Signed CV and Qualifications and Certificates of the proposed Site Safety Officer	10
G	Proof of previous or current Prequalification or undertaking of works with a similar Institution.	10

	Current commitments; Details of similar nature, complexity and magnitude underway or contractually committed i.e. schedules of on-going projects each with a value of at least ksh (10) million.	
H	List of 10 ' RELEVANT ' Construction Equipment, Tools and plant to be used for the works owned by the Firm. Attach Proof of ownership/ Lease/Hire Agreement with plant Hire Firm if not owned. Attach clear coloured photograph of your Workshop/office and Location. (please note, Dozers and Excavators are not RELEVANT Equipment in this case)	10
I	Undertaking on Understanding of Specifications and compliance to specifications. The Contractor should present a one written page on how they understand the works (Method Statement) and a Work Programme covering the intended duration of the project. The A3 Formatted Work Programme to include dedicated Human Capital and Plant/Machinery and materials logistics	10
TOTAL		100

A cut off point of 70% score meaning that any firm scoring less than 70 points on the 100 points scale is not considered as Technically responsive nor capable and therefore shall not be considered in the financial evaluation.

The client reserves the right to cross check any information provided above. If a bidder is found to have presented untrue information they will be automatically disqualified.

SECTION III

CONDITIONS OF CONTRACT, PART I – GENERAL CONDITIONS

The Conditions of Contract, Part I – General Conditions, shall be those forming Part I of the “Conditions of Contract for works of Civil Engineering Construction, Fourth Edition 1987, re-printed in 1992 with further amendments, prepared by the Federation Internationale des Ingenieurs – conseils (FIDIC). The Conditions are subject to variations and additions set out in Part II hereof entitled “Conditions of Contract, Part II - Conditions of Particular Application”.

Note

- i. The standard text of the General Conditions of Contract must be retained intact to facilitate its reading and interpretation by tenderers. Any amendments and additions to the General Conditions, specific to a given Contract, should be introduced in the Conditions of Particular Application or in the Appendix to Form of Tender.
- ii. The Conditions of Particular Application take precedence over the General Conditions of Contract.
- iii. Copies of the FIDIC Conditions of Contract can be obtained from:
FIDIC Secretariat
P.O. Box 86
1000 Lausanne 12
Switzerland
Fax: 41 21 653 5432
Telephone: 41 21 653 5003

**SECTION IV
CONDITIONS OF CONTRACT PART II
(CONDITIONS OF PARTICULAR APPLICATION)**

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SECTION IV
CONDITIONS OF CONTRACT PART II – CONDITIONS OF PARTICULAR APPLICATION

GENERAL

The Conditions of Contract Part II – Conditions of Particular Application, modify and compliment like-numbered clauses in the Conditions of Contract Part I – General Conditions. Both Parts shall be read together, with the Conditions of Particular Application prevailing in case of conflict or discrepancy. Clauses of the General Conditions not specifically modified and supplemented shall remain in effect.

Clause No.

Definitions and Interpretation

- 1.1 (a)(i) The said “Employer” shall be COUNTY ASSEMBLY OF SIAYA represented by Ag. ASSEMBLY CLERK
- (iv) The said “Engineer” shall be SUPERINTENDING ENGINEER or any other competent person appointed by the Employer, and notified to the Contractor, to act in replacement of the Engineer.
- (b)(i) Insert in line 2 after “the Bills of Quantities”, the following, ”the rates entered by the Contractor (whether or not such rate be employed in computation of the Contract Price)”.

Add the following sub-clause;

Engineer’s Duties and Authority

- 2.1 (b) The Engineer shall obtain specific approval of the Employer before taking any of the following actions specified in Part I:
- (i) Consenting to the sub-letting of any part of the Works under clause 4.
 - (ii) Certifying additional cost determined under Clause 12
 - (iii) Determining an extension of time under Clause 44
 - (iv) Issuing a variation under Clause 51 except in an emergency situation as reasonably determined by the Engineer.
 - (v) Fixing rates or prices under clause 52

4 Assignment and Subcontracting

- 4.1 Sub-contracting is will be allowed at not more than 30% of the contract value. Consent to engage the sub-contractor must be sort from the employer.

The Contractor shall however, not require any consent for purchases of materials or to place contracts for minor details or for any part of the Works of which the manufacturer of supplier is named in the Contract. Any such consent shall not relieve the Contractor from any liability or obligation under the Contract and he shall be responsible for the acts, defaults and neglects of any subcontractor, his agents, servants or workmen as fully as if they were the acts, defaults or neglects of the Contractor, his agents, servants or workmen.

5 Contract Documents

- 5.1 (a) The language governing this Contract shall be English.

The “Ruling Language” which shall be used to interpret this Contract shall be English. Communication between the Contractor and Engineer or Engineer’s representative shall be in English.

- (b) The law applicable to this Contract shall be the laws of the Republic of Kenya. Except to the extent otherwise provided by the Contract, the Kenyan courts shall have exclusive jurisdiction to hear and to determine all actions and proceedings in connection with and arising out of the Contract, and the Contractor shall submit to the jurisdiction of Kenyan courts for the purpose of any such actions and proceedings.

- 5.2 The documents listed:

- (1) The Contract Agreement;
- (2) The Notification of Award;
- (3) Tender and Appendix to Form of Tender;
- (4) The Conditions of Contract Part II;
- (5) The Conditions of Contract Part I (FIDIC);
- (6) The Special Specifications;
- (7) The Standard Specifications for Road and Bridge Construction, MOTC – 1986;
- (8) Clarifications and rectifications accepted by the Employer; and
- (9) The Drawings;
- (10) The priced Bills of Quantities; and
- (11) Schedules and other documents forming part of the Contract.

- 8.1 Additionally, the Contractor will undertake the following:

- (a) Within 28 days after receipt of the Engineer's order to commence the Works, the Contractor shall establish an office at the Site duly equipped for the Contractor's representative and his supervisory personnel.

The Contractor shall maintain this office throughout the Contract period. The said office shall be the legal domicile of the Contractor, and all correspondence sent to this office shall be deemed to have been sent to the Contractor's head office.

- (b) A foreign Contractor or a Kenya-foreign joint venture, if not registered in Kenya under the applicable laws of Kenya, shall undertake registration upon receipt of the letter of acceptance and prior to signing of the Contract.

10.1 Performance Security

The Contractor shall obtain a Performance Security within 28 days after the notification of award and the Performance Security shall be issued by a Bank incorporated in Kenya. The amount of guarantee shall be as stated in the Appendix to Form of Tender.

The bank guarantee, shall be issued either (a) by an established and reputable bank approved by the Employer and located in Kenya or a foreign bank through a correspondent established and reputable bank located in Kenya and approved by the Employer or (b) directly by a foreign bank acceptable to the Employer. The performance security shall normally be in the currency or currencies requested for payment by the Contractor and in the same proportions as those requested for payment in the Contract.

The performance security may, subject to the approval of the Engineer, be adjusted at the end of each period of 12 months to reflect the residual value of the Contract Works.

- 10.2 The performance guarantee shall be valid until a date 28 days after the date of issue of the Taking-Over Certificate. The security shall be returned to the Contractor within 28 days of the expiration.

11.1 Inspection of Site

The Employer in no way guarantees completeness nor accuracy of the soil, materials, subsurface and hydrological information made available to the Contractor at the time of tendering or at any other time during the period of the Contract, and the

Contractor shall be responsible for ascertaining for himself all information as aforesaid for the execution of Works and his tender shall be deemed to have been priced accordingly.

14.1

Programme to be Submitted

The time within which the Programme shall be submitted shall be twenty eight (28) days. This detailed Programme shall be based upon the programme submitted by the Contractor as part of his tender and shall, in no material manner, deviate from the said programme.

The Contractor shall allow in his Programme for the following 11 public holidays per calendar year in Kenya upon which the Contractor shall not be permitted to work

New Year's Day	(1st January)
Good Friday	
Easter Monday	
Labour Day	(1 st May)
Madaraka Day	(1 st June)
Idd-Ul-Fitr	
Moi Day	(10 th October)
Kenyatta Day	(20 th October)
Jamhuri Day	(12 th December)
Christmas Day	(25 th December)
Boxing Day	(26 th December)

The Contractor should also allow per calendar year for a further 2 unspecified public holidays which may be announced by the Government of Kenya with no prior notification, and upon which he shall not be permitted to work.

14.2

The Employer shall have the right to withhold payment at any time if the Contractor fails to submit the contractual construction programmes in accordance with sub clause 14.1 above or revise construction programmes due to his negligence, failure or omission.

14.3

Cash Flow Estimate to be Submitted

The time limit within which a detailed cash flow estimate is to be submitted shall be twenty- eight (28) days.

In preparing the estimates, the Contractor shall make provision for Advance payment, repayment of advance, retention, payment for services provided by the Employer and timing implications of sub clause 60 – Certificates and Payments.

15

Contractor's Superintendence

Add the following at the end of the first paragraph of sub-clause 15.1:

- 15.1 The Contractor shall, within seven (7) days of receipt of the Engineer's order to commence the Works, inform the Engineer in writing, the name of the Contractor's representative and the anticipated date of his arrival on Site.

Add the following sub-clause 15.2:

- 15.2 The Contractor's agent or representative on the Site shall be an Engineer registered by the Engineer's Registration Board of Kenya in accordance with the Laws of Kenya cap. 530 or have equivalent status approved by the Engineer and shall be able to read, write and speak English fluently.

- 16.2 **Engineer at Liberty to object**

At the end of this clause add "by a competent substitute approved by the Engineer at the Contractor's own expense".

The Contractor is encouraged to the extent practicable and reasonable, to employ staff and labour with appropriate qualifications who are Kenyan citizens.

Safety, Security and Protection of the Environment

- 19.1 The formulation and enforcement of an adequate safety program shall be the obligation of the Contractor with respect to all the Works under this Contract, regardless of whether performed by the Contractor or his subcontractors. The Contractor shall, within 14 days after commencement of the Works, meet the Engineer to present and discuss his plan for the establishment of such safety measures as may be necessary to provide against accidents, unsafe acts and so forth. Within 28 days after commencement of the Works, the Contractor shall submit a written safety program to the Engineer covering the overall Works and based on the laws and regulations of Kenya. In addition, he shall prepare special safety programs for blasting and handling of explosives as stipulated in the General and Special Specifications.

Notwithstanding the foregoing, the Contractor shall observe the following measures with a view to reducing or eliminating adverse environmental effects by the Site Works:

- (i) All queries and borrow pits shall be filled and landscaped to their original state after extraction of construction material

- (ii) Soil erosion due to surface runoff or water from culverts or other drainage structures should be avoided by putting in place proper erosion control measures that shall include, but not limited to grassing, planting of trees, gabions etc.
- (iii) Spillage of oils, fuels and lubricants shall be avoided and if spilt, shall be collected and disposed off in such a way as not to adversely affect the environment.
- (iv) Rock blasting near settlement areas shall be properly coordinated with the relevant officers of the Government so as to minimize noise pollution and community interference.
- (v) Dumping shall be done only at designated dumping areas and not haphazardly on surroundings.

Insurance of Works & Contractor's Equipment

21.1 (a) Prior to commencement of the Works the Contractor shall, without limiting his or the Employer's obligations and responsibilities under Clause 20, insure to the satisfaction of the Employer. It being understood the insurance shall provide for compensation to be payable in the types and proportions of the currencies required to rectify the loss or damage incurred."

21.2 It shall be the responsibility of the Contractor to notify the insurance company of any change in the nature and extent of the Works and to ensure the adequacy of the insurance coverage at all times during the period of the Contract".

Insurance Notices

Each policy of insurance effected by the Contractor for the purpose of the Contract shall include a provision to the effect that the Insurer shall have a duty to give notice in writing to the Contractor and Employer of the date when a premium becomes payable not more than thirty (30) days after the giving of such notice.

22.1 Re-insurance in Kenya

The risks against which the Contractor is obliged to insure under the Contract shall be insured through established and reputable companies approved by the Employer and located in Kenya and any cover against risks which the Contractor may enjoy shall be reinsured in Kenya by an approved

Kenyan Insurance Company In respect of the Contractor's obligations under the Contract.

- 23.1 It shall be the responsibility of the Contractor to notify the insurers under any of the insurances referred or event which by the terms of such insurances are required to be so notified and the Contractor shall indemnify and keep indemnified the Employer against all losses, claims, demands, proceedings, costs, charges and expenses whatsoever arising out of or in consequence of any default by the Contractor in complying with the requirements of this sub clause whether as a result of avoidance of such insurance or otherwise.

24 Compliance with Statutes, Regulations

The Employer will repay or allow to the Contractor all such sums as the Engineer shall certify to have been properly payable and paid by the Contractor in respect of such fees. Provided always that, without prejudice to sub clause, nothing contained in this clause shall be deemed to render the Employer liable to all claims which may be considered to fall within the provisions of clause 22.1.

Royalties

- 25.0 The Contractor shall also be liable for all payments or compensation, if any, that are levied in connection with the dumping of part or all of any such material.”

Interference with Traffic and Adjoining Properties

- 25.1 The Contractor shall reinstate all properties whether public or private which are damaged in consequence of the construction and maintenance of the Works to a condition at least equal to that prevailing before his first entry on them.

If in the opinion of the Engineer the Contractor shall have failed to take reasonable and prompt action to discharge his obligations in the matter of reinstatement, the Engineer will inform the Contractor in writing of his opinion, in which circumstances the Employer reserves the right to employ others to do the necessary work of reinstatement and to deduct the cost thereof from any money due or to become due to the Contractor.

The Contractor shall promptly refer to the Employer all claims, which may be considered to fall within the provisions of Clause 22.1.

LABOUR

26 Conditions of Employment of Labour

The Contractor shall be responsible for making all arrangements for and shall bear all costs relating to recruitment, obtaining of all necessary visas, permits or other official permission for movements of staff and labour.

26.1 Fair Wages

The Contractor shall, in respect of all persons employed anywhere by him in the execution of the Contract, observe and fulfill the following conditions:

- (a) The Contractor shall pay the rates of wages, observe hours of labour and provide conditions, housing amenities and facilities not less favorable than those required by the Regulation of wages (Building and Construction Industry) Order 1998, and any subsequent amendments thereto, or in any ministry of labour or other government department in consultation with the district whose general circumstances in the trade or industry in which the Contractor is engaged are similar. The Contractor shall at all times during the continuation of the Contract display, for the information of his employees, a notice setting out the general rates of wages, hours and conditions of labour of his employees and a copy of this clause.
- (b) In the absence of any rates for wages, hours or conditions of labour so established, the Contractor shall pay rates or wages and observe hours and conditions for labour which are not less favourable than the general circumstances in the trade or industry in which the Contractor is engaged.
- (c) Where the absence of established rates of wages, hours and conditions of labour or the dissimilarity of the general circumstances in the trade or industry in which the Contractor is engaged prevent the Contractor from observing rates of wages, hours and conditions of labour ascertained under sub-paragraph (a) or (b) above, the Contractor in fixing the rates of wages, hours and conditions of labour of his employees shall be guided by the advise of the labour department.
- (d) The Contractor shall recognize the freedom of his employees to be members of trade unions.
- (e) The Contractor shall maintain records of the times worked by, and the wages paid to his employees. The Contractor shall furnish to the Employer, if called upon so to do, particulars of the rates of wages, hours and conditions of labour as the employer may direct.
- (f) The Contractor shall be responsible for observance by his sub-Contractors of the foregoing provisions.

26.2 Breach of Fair Wages Clause

Should a claim be made to the Employer alleging the Contractor's default in payment of fair wages to any workman employed on the Contract and if

proof thereof satisfactory to the Employer is furnished by the labour department, the Employer may, failing payment by the Contractor, pay the claims out of any monies due or which may become due to the Contractor under the Contract.

26.3 Recruitment of Unskilled Labour

Any additional unskilled labour which may be required by the Contractor for the Works and which is not in his employ at the time of the acceptance of the tender shall be recruited by the Contractor from the labour office nearest to the Site of the Works.

26.4 Compensation for injury

The Contractor shall, in accordance with the Workman's Compensation Act Chapter 236 of the laws of Kenya and any other regulations in force from time to time in Kenya ,pay compensation for loss or damage suffered in consequence of any accident or injury or disease resulting from his work to any workman or other person in the employment of the Contractor or any sub-contractor.

26.5 Labour Standards

- a) The Contractor shall comply with the existing local labour laws, regulations and labour standards.

- b) The Contractor shall formulate and enforce an adequate safety program with respect to all Work under this Contract, whether

performed by the Contractor or his sub-contractors. The Contractor has assurance from the Employer of cooperation where the implementation of these safety measures requires joint cooperation.

- c) Upon written request of the Employer the Contractor will remove or replace any of his employees employed under this Contract.

26.6 Recruitment

The Contractor shall not induce personnel of the employer or the Engineer to leave their regular employment and shall not, without the prior consent in writing of the Employer, employ personnel who have resigned from such service within the preceding twelve months.

27 Additional Clauses

- 27.1 The Contractor shall maintain such records and make such reports concerning safety, health and welfare of persons and damage to property as the Engineer may from time to time prescribe.
- 27.2 The Contractor shall report to the Engineer details of any accident as soon as possible after its occurrence. In the case of any fatality or serious accident, the Contractor shall, in addition, notify the Engineer immediately by the quickest available means. The Contractor shall also notify the relevant authority(s) whenever such report is required by the law.

41.1 **Commencement and Delays**

41.2 **Definition of Commencement**

For the purposes of this clause, the Works shall be deemed to have commenced when all of the following conditions are satisfied;

- a) The approved competent and authorized agent or representative of the Contractor is resident in the project area and is giving his whole time to the superintendence of the Works.
- b) The provision by the Contractor of evidence that all insurances required by the Contract are in force.
- c) The Contractor has an established office in the project area with postal address for receipt of correspondence.
- d) The principal items of constructional plant have been brought to Site and put to work in the execution of the permanent Works.

42.4 **Possession of Site and Access Thereto**

The Contractor shall not enter any part of the Site until he has requested and received permission to do so from the Employer or the Engineer.

The Contractor shall not use any portion of the Site for any purpose not connected with the Work

Neither rains falling between 1st November and 31st December (inclusive) and between 1st February and 31st May (inclusive) nor floods caused by such rains shall be deemed exceptional weather conditions such as may fairly entitle the Contractor to an extension of time for the completion of the Work.

44 Working Hours

Subject to any provision to the contrary contained in the Contract, the Contractor shall have the option to work continuously by day and by night and on locally recognized days of rest.

If the Contractor requests for permission to work by day and night and if the Engineer shall grant such permission, the Contractor shall not be entitled to any additional payment for so doing. All such work at night shall be carried out without unreasonable noise or other disturbance and the Contractor shall indemnify the Employer from and against any liability for damages on account of noise or other disturbance created while or in carrying out night work and from and against all claims, demands, proceedings, costs, charges and expenses whatsoever in regard or in relation to such liability. In addition, the Contractor shall be required to provide, for any work carried out by night or recognized days of rest, adequate lighting and other facilities so that the Work is carried out safely and properly. In the event of the Engineer granting permission to the Contractor to work double or rotary shifts or on Sundays, the Contractor shall be required to meet any additional costs to the Employer in the administration and supervision of the Contract arising from the granting of this permission.

47.2 **Reduction of Liquidated Damages**

There shall be no reduction in the amount of liquidated damages in the event that a part or a section of the Works within the Contract is certified as completed before the whole of the Works comprising that Contract.

No bonus for early completion of the Works shall be paid to the Contractor by the Employer.

The sum stated in the Appendix to Form of Tender as liquidated damages shall be increased by a sum equivalent to any amount payable by the Employer to the Contractor under clause 70.1 in respect of an increase in costs in such period that would not have been incurred by the Contractor if the Works had been completed by the due date for completion prescribed by clause 43.

Defects Liability

49.2 Any work ordered to be executed under this clause shall be done at a time and in a manner as directed by the Engineer so as to interfere as little as possible with the operations of the Employer or of other contractors and no extension(s) of the defects liability period will be allowed for the execution of this Work.

52 **Variations**

52.1 The agreement, fixing or determination of any rates or prices as aforesaid shall include any foreign currency and the proportion thereof.

52.4 **Daywork**

The Work so ordered shall immediately become part of the Works under the Contract. The Contractor shall, as soon as practicable after receiving the Daywork Order from the Engineer undertake the necessary steps for due execution of such Work. Prior to commencement of any work to be done on a Daywork basis, the Contractor shall give a notice to the Engineer stating the exact time of such commencement.

54 **Plant, Temporary Works and Materials**

For the purpose of these Clauses, the term “Equipment” shall be read as “Contractor’s Equipment” where the context so requires.

54.1 Line 5: - Add “written” between “the” and “consent”.

Quantities

55.1 Delete sub-clause 55.1 and substitute with the following;

The quality and quantity of the Work included in the Contract Price shall be deemed to be that which is set out in the Contract Bills. The Bills, unless otherwise expressly stated therein, shall be deemed to have been prepared in accordance with the principles of the latest edition of the Civil Engineering Standard Method of Measurement.

Any error in description or in quantity or any omission of items from the Contract Bills or Specifications shall not vitiate this Contract but shall be corrected and deemed to be a variation required by the Engineer. Subject to the foregoing, any error whether arithmetical or not in the computation of the Contract Price shall be deemed to have been accepted by the parties hereto.

The Contract Price shall not be adjusted or altered in any way whatsoever otherwise than in accordance with the express provisions of these Conditions.

55.2 Items of Work described in the Bills of Quantities for which no rate or price has been entered in the Contract shall be considered as included in other rates and prices in the Contract and will not be paid for separately by the Employer.

Measurement

56.1 The Contractor shall prepare and submit to the Engineer all necessary field notes and other records taken and computations made for the purpose of quantity measurements, of which the forms shall be approved by the Engineer, for the monthly progress payment under clause 60. The measurement of work quantities made by the Contractor shall be verified and certified by the Engineer based on the above-mentioned documents.

The Contractor shall furnish all personnel, equipment and materials to make such surveys and computations as necessary to determine the quantities of work performed. Unless otherwise prescribed in the specifications or the drawings, all measurements for payment shall be made by the dimensions, lines and grades as shown on the drawings or by direct survey of which the methods shall be approved by the Engineer.

The documents submitted for measurement and payment shall become the property of the Employer and shall be used to the extent necessary to determine the monthly progress payment to be made to the Contractor under the Contract. Direct survey, if done, shall be subject to checking and verification by the Engineer and all errors in the said survey work and related computations as found during such checking shall be immediately corrected by the Contractor.

- 57.1 The Works shall be measured net with deductions made in accordance with the principles of the latest edition of the Civil Engineering Standard Method of Measurement. All measurements shall be given in metric (SI) units.

Provisional Sums

58.4 **Prime Cost sum**

Wherever an item in the Bills of Quantities has been referred to as a “P.C. Sum” (Prime Cost Sum), that item shall be construed as a Provisional sum and the provisions of Sub-clauses 58.1 to 58.3 will apply.

- 59.5 If the Engineer desires to secure final payment to any nominated sub-contractor before final payment is due to the Contractor and if such sub-contractor has satisfactorily indemnified the Contractor against any latent defects, the Engineer may, in an interim certificate, include an amount to cover the said final payment, and thereupon the Contractor shall pay to such nominated sub-contractor the amount so certified. Upon such final payment, the amount named in the Appendix to Form of Tender as Limit of Retention Money shall be reduced by the sum which bears the same ratio to the amount as does the subcontract and sub-contractor shall be discharged from all liability for the Work, materials or goods executed or supplied by such subcontractor under the Contract to which the payment relates.

Certificates and Payment

60.1 **Advance Payment**

No advance payment shall apply in this contract.

60.2 **Interim Payment Certificate**

Payments will be done according to stage completion. The Contractor shall submit to the Engineer, in the manner required by the Engineer after the end of each month a statement showing the estimated total value of

permanent Work properly executed and materials or goods for permanent works brought to Site up to the end of the previous month (if the value shall justify the issue of an interim certificate) together with any adjustments under clause 70 and any outstanding claims and sums the Contractor considers may be due to him. The Contractor shall amend or correct his estimate as directed by the Engineer and the latter shall not accept it until he is satisfied that it is fair and reasonable. With respect to the said materials and goods, no payment for them shall be made unless ;-

- (i) The materials are in accordance with the specifications for the Works;
- (ii) The materials have been delivered to Site and are properly stored and protected against loss, damage or deterioration;
- (iii) The Contractor's record of the requirements, orders, receipts and use of materials are kept in a form approved by the Engineer, and such records are available for inspection by the Engineer;
- (iv) The Contractor has submitted a statement of his cost of acquiring and delivering the materials and goods to the Site, together with such documents as may be required for the purpose of evidencing such cost;
- (v) The materials are to be used within a reasonable time.

The Contractor will be paid on the certificate of the Engineer the amount due to him on account of the estimated total value of the permanent Work executed up to the end of the previous month together with such amount (not exceeding 75% of the value) as the Engineer may consider proper on account of materials and goods for permanent Work delivered by the Contractor on Site and in addition, such amount as the Engineer may consider fair and reasonable for any Temporary Works for which separate amounts are provided in the Bill of Quantities, all of which shall be subject to a retention of the percentage named in the Appendix to Form of Tender until the amount retained (hereinafter and in all Contract documents called the "Retention Money") shall reach the "Limit of Retention Money" named in the said Appendix. Provided always that no interim certificate shall be issued for a sum [such sum always being the net amount thereof after all deductions for retention etc) less than that named in the Appendix to Form of Tender as "Minimum Amount of Interim Certificate" at one time.

Within 14 days after receiving a statement from the Contractor as aforesaid, and subject to the Contractor having made such further amendments and corrections as the Engineer may require, the Engineer shall issue a Certificate of Payment to the Employer showing the amount due, with a copy to the Contractor.

The Engineer shall not unreasonably withhold certifying an Interim Payment Certificate and where there is a dispute regarding an item for payment, the

Engineer may delete this disputed item from the Interim Payment Certificate and certify the remainder for payment provided the said payment is in accordance with the preceding paragraph. In cases of difference in opinion as to the value of any item, the Engineer's view shall prevail.

60.3 **Final Account and Final Payment Certificate**

As soon as possible after the issue of Taking - Over Certificate or the termination of the Contract and not later than the time of issue of Defects Liability Certificate, the Contractor shall prepare and submit to the Engineer (with a copy to the Employer), a Statement of Final Account showing in detail the total value of work done in accordance with the Contract together with all sums paid in previous payments. Within thirty(30) after receipt of such further information as may be reasonably required from the Contractor for its verification, the Engineer shall check the said statement, prepare and submit a Final Payment Certificate to the Employer (with a copy to the Contractor).

The Final Payment Certificate shall state;

- (a) The (final) total value of all Work done in accordance with the Contract;
- (b) After giving credit to the Employer for all amounts previously paid to the Contractor, the balance, if any, due from the Employer to the Contractor or the Contractor to the Employer, as the case may be.

Unless the Contractor notifies the Engineer of his objection to the Final Payment Certificate within twenty eight [28] days of delivery thereof , he shall be deemed to have agreed that he accepts the total Contract Price as set out in the Final Payment Certificate as full settlement for all work done under the Contract including any claims, variations and omissions thereof.

However, a Final Certificate of Payment shall not be conclusive:

- a) to the extent that fraud or dishonesty relates to or affects any matter dealt with in the Certificate, or
- b) if any arbitration or court proceedings under the Contract have been commenced by either party before the expiry of 84 days after the issue of the Final Certificate of Payment.

60.4 **Payment of Certificates**

Payment upon each of the Engineer's Certificates for Interim Payments shall be made by the Employer within the time stated in the Appendix to Form of Tender from the date of issue of each Certificate of Payment.

Payment upon the Engineer's Final Payment Certificate shall be made by the Employer within the time stated in the Appendix to Form of Tender from the date of issue of the Final Certificate of Payment signed by the Engineer and countersigned by the Contractor or his authorised agent or representative.

Making of a payment by the Employer shall be considered to have been duly executed on the day that the Employer has issued a cheque.

60.5 Payment of Retention Money

Retention money will be paid after the expiry of the defects liability period. The Contractor after the expiration of the Defects Liability Period and the issue of a Certificate under Clause 62. Provided always that if such time there shall remain to be executed by the Contractor any Works ordered during such period pursuant to Clauses 49 and 50 thereof, the Employer shall be entitled to withhold payment [until the completion of such Works] of so much of the second half of the Retention Money as shall in the opinion of the Engineer represent the Costs of the Works so remaining to be executed. Provided further that in the event of different Defects Liability Periods having become applicable to different parts of the Works pursuant to clause 48 hereof the expression "expiration of the Defect Liability Period" shall for the purpose of this Sub-clause be deemed to mean the expiration of the latest of such periods.

60.6 Currency of Payment

The Contract price shall be stated in Kenya Shillings. All payments to the Contractor shall be made in Kenya shillings.

60.7 Overdue Payments

Unless otherwise stated in the appendix interest shall be paid on the overdue amounts and the interest to be paid shall be in accordance with prevailing commercial bank rates.

60.8 Correcting and With-holding

The Engineer may by any interim certificate or through the final account make any correction or modification to any previous certified sum and shall have authority, if any work or part thereof is not being carried out to his satisfaction, to omit or reduce the value of such work in any Interim Payment Certificate.

60.9 Completion by Sections.

If a Taking-Over Certificate shall be issued for any section or part of the Works separately, the payments herein provided for on or after issue of such a Certificate shall be made in respect of such section or part and references

to the Contract Price shall mean such part of the Contract Price as shall in the absence of agreement be apportioned thereto by the Engineer.

60.10 Statement at Completion

Not later than 14 days after the issue of the Taking-Over Certificate in respect of the whole of the works, the Contractor shall submit to the Engineer a statement at completion showing in detail, in a form approved by the Engineer;

- (a) The final value of all work done in accordance with the Contract up to the date stated in such Taking-Over Certificate.
- (b) Any further sums which the Contractor considers to be due; and
- (c) An estimate of amounts, which the Contractor considers, will become due to him under the Contract.

Estimate amounts shall be shown separately in the Statement at Completion. The Contractor shall amend and correct the Statement as directed by the Engineer who shall issue a Certificate at Completion to be processed in accordance with sub-clause 60.4.

60.11 Final Statement

Not later than 56 days after the issue of the Defects Liability Certificate, the Contractor shall submit to the Engineer for consideration a draft final statement with supporting documents showing in detail, in the form approved by the Engineer;

- (a) The final value of all work done in accordance with the Contract;
- (b) Any further sums which the Contractor considers to be due to him.

If the Engineer disagrees with or cannot verify any part of the draft final statement, the Contractor shall submit such further information as the Engineer may reasonable require and shall make such changes in the draft as may be required.

60.12 Discharge

Upon submission of the Final Statement, the Contractor shall give to the Employer, with a copy to the Engineer, a written discharge confirming that the total of the Final Statement represents full and final settlement of all monies due to the Contractor arising out of or in respect of the Contract. Provided that such discharge shall become effective only after payment under the Final Payment Certificate issued pursuant to Sub-clause 60.14 has been made and the Performance Security referred to in Sub-clause 10.1 has been returned to the Contractor.

60.13 **Final Payment Certificate**

Upon acceptance of the Final Statement as given in Sub-clause 60.12, the Engineer shall prepare a Final Payment Certificate which shall be delivered to the Contractor's authorized agent or representative for his signature. The Final Payment Certificate shall state:

- (a) The final value of all work done in accordance with the Contract;
- (b) After giving credit to the Employer for all amounts previously paid by the Employer, the balance, if any, due from the Employer to the Contractor or the Contractor to the Employer as the case may be

Final Certificate shall be issued for any sum due to the Contractor even if such is less than the sum said named in the Appendix to the Form of Tender.

60.14 **Cessation of Employer's Liability**

Unless the Contractor notifies the Engineer of his objection to the Final Certificate within fourteen days of delivery thereof he shall be deemed to have agreed that he accepts the total Contract Price as set out in the Final Certificate as full settlement for all work done under the Contract including any variations and omissions thereof.

62.1 **Defects Liability Certificate**

The defects liability certificate will be prepared according to Sub-Clause 60.3".

Remedies

63.4 **Assignment of Benefit of Agreement**

But on the terms that a supplier or sub-contractor shall be entitled to make any reasonable objection to any further assignment thereof by the Employer and the Employer may pay the supplier or sub-contractor for any such materials supplied or Works executed under such agreement, whether the same be assigned as aforesaid or not, before or after the said determination, the amount due by such arrangement in so far as it has not already been paid by the Contractor".

65 **Special Risks**

- (a) In the event of the Employer unilaterally ordering the final

cessation of performance of the Contract for reasons not specified elsewhere in the Conditions of Contract the Contract shall be considered to be frustrated and the Contractor shall be indemnified as provided for under clause 65.1.

- (b) In the event of the Employer ordering the adjournment of the Contract before or after commencement of the Works for reasons not specified elsewhere in the Conditions of Contract, the Contractor shall be entitled to indemnity for any injury which he may have suffered as a consequence of

such adjournment. The Engineer shall award the Contractor payment of such sum as in his opinion shall be reasonable giving regard to all material and relevant factors including the Contractor's on costs and overheads, and the nature of the instruction to adjourn the Contract.

Settlement of Disputes

67.3 Arbitration

For the purposes of this Clause, the Arbitrator shall be a person to be agreed between the parties or failing agreement, the Arbitrator shall be appointed by the appointer designated in the Appendix to the Form of Tender.

Arbitration shall take place in Nairobi, Kenya. The language of all arbitration proceedings shall be in English. The cost of arbitration shall be apportioned by the Arbitrator according to his findings.

Notices

- 68.1 Notwithstanding the foregoing, the Contractor shall either maintain an address close to the Works or appoint an agent residing close to the Works for the purpose of receiving notices to be given to the Contractor under the terms of the Contract. This obligation shall be terminated upon the issue of the Certificate of Completion.

Default of Employer

69.1 Default of Employer

The Contractor may suspend work as a result of the following:

69.4 Contractor's Entitlement to Suspend Work

- 69.5 Without prejudice to the Contractor's entitlement to interest under Sub-clause 60.7 and to terminate his employment under Sub-Clause

69.1, the Contractor may, if the Employer fails to pay the Contractor the amount due under any certificate of the Engineer within 56 days after the expiry of the time stated in Sub-Clause 60.4

The amount of such cost, which shall be added to the Contract Price. However, the costs due to idle time for plant, equipment and labour shall not be included in the said costs and shall be borne by the Contractor.

69.6 **Resumption of Work**

The Contractor may resume work after the payment of interest which is due under Sub-Clause 60.7

Changes in Cost and Legislation

70.1 The Contract Price shall be deemed to have been calculated in the matter set below and shall be subject to the adjustment in the event specified hereunder:

- (a) The rates contained in the priced Bill of Quantities are based upon the rates of wages and other emoluments and expenses applicable at the site and the date of tender pricing (as defined in sub-clause 70.4 hereinafter);
- (b) If the said rates of wages and other emoluments and expenses shall be increased or decreased by act, statute, decree, regulation and the like after the said date of tender pricing then the net amount of increase the emoluments and expenses shall, as the case may be, paid to or allowed by Contractor;
- (c) The rates contained in the price Bill of Quantities are based upon the rates of the Contractor's compulsory contributions payable at the date of tender under or by virtue of any Act, Statue, Regulations and the like applicable at the site;
- (d) If any of the said rates of contribution becomes payable after that date then the net amount of new statutory contribution becomes payable after that date then the net amount of increase or decrease of the emoluments and expenses shall, as the case may be, be paid to or allowed by the Contractor. Difference between what the Contractor actually pays in respect of work people engaged upon or in connection with the works and what he would have paid in respect of such person had any of the said rates not been increased or decreased or had a new contribution not become payable as aforesaid, shall as the case may be, be paid to or allowed by the Contractor. Provided always that the Engineer and the Contractor may agree a sum, which shall be deemed to be the net amount of the aforesaid difference, and such sum shall be deemed for the purpose of this Contract to be, that

which is to be paid to or allowed by the Contractor by the virtue of this sub-paragraph;

- (e) If the market price or any materials or goods specified as aforesaid shall be increased or decreased after the said Date of Tender Pricing, then the net amount of difference between the basic price and the market price payable by the Contractor and current when any such goods and materials are bought shall, as the case may be, be paid to or allowed by the Contractor. Orders for materials and goods listed as aforesaid shall have been placed within a reasonable time after the date at which sufficient information is available for the placing of such orders, and the placing of orders at that time shall be a condition precedent to any payments being made to the Contractor in respect of increased market prices.”

70.2 (a) If the Contractor shall decide subject to Clause 4 thereof to sub-let any portion of the work he shall incorporate in the sub-contract provisions to the like effect as those contained in sub-clause (1) of this Clause;

- (c) If the price payable under a sub-contract as aforesaid is increased above or decreased below the price in such sub-contract by reason of the operation of the incorporated provisions of sub-clause (1) of this clause then the net amount of such increase or decrease shall as the case may be, be paid to or allowed by the Contractor under this Contract.

70.3 The expression “the date of tender pricing” as used in this Clause means the date 28 days prior to the final date for submission of Tenders as determined by the Employer in the Tender documents.

70.4 For imported materials, the supplier’s/manufacturer’s Prime costs shall be C.I.F. cost at point of entry by the same means of transport as determined by the Contractor’s Basic Rate.

For locally produced materials, the supplier’s or manufacturer’s prime costs shall be at their nearest depot or the nearest railway station relevant to the works.

For materials, which are subject to Government Price Control, payments for price variations will be determined from the difference between the control price in force at a date 28 days prior to date for submission of Tenders and the price in force on the date of purchase.

70.5 The materials to which this Variation Clause applies are:

- ◆ All bitumen material
- ◆ Fuels, oils and lubricant

- ◆ Cement
- ◆ Lime
- ◆ Flex beam guardrail
- ◆ Explosives
- ◆ Gabion mesh
- ◆ Reinforcing steel

70.6 The Contractor shall not change the supplier or manufacturer during the Contract without the approval of the Engineer.

70.7 No payments will be made for price variation related to expenses incurred by the Contractor in his Head Office in Kenya, or overseas.

70.8 All payments made pursuant to Clause 70 shall be in Kenya Shillings.

70.9 No payments will be made for the cost of preparing V.O.P. claims.

70.10 Add the following at the end of this clause.

“Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited as aforesaid if the same shall already have been taken into account in accordance with the provisions of sub-clause 70.1”.

ADDITIONAL CLAUSES

Clause 73 Declaration Against Waiver

The condoning by the Employer of any breach or breaches by the Contractor or any authorized sub-contractor of any of the stipulations and Conditions contained in the Contract shall in no way prejudice or affect or be construed as a waiver of the Employer’s rights, powers and remedies under the Contract in respect of any breach or breaches as aforesaid.

Clause 74 Bribery and Collusion

The Employer shall be entitled to determine the Contract and recover from the Contractor the amount of any loss resulting from such determination if the Contractor shall have offered or given or agreed to give any person any gift or consideration of any kind as an inducement of regard for doing or fore bearing to do or for having done or fore borne to do any action in relation to obtaining or the execution of the Contract or any other contract with the Employer or if any of the like acts shall have been done by any person employed by the Contractor or acting on his behalf (whether with or without the

knowledge of the Contractor) or if the Contractor shall have come to any agreement with another contractor or number of contractors

whereby an agreed quotation or estimate shall be tendered to the Employer by one or more contractors.

Clause 75 Contract Confidential

The Contractor shall treat the Contract and everything in connection therewith as private and confidential. In particular, the Contractor shall not publish any information, drawings or photographs concerning the Works in any trade or technical paper etc, and shall not use the Site for the purpose of advertising except with the written consent of the Engineer and subject to such conditions as the Engineer may prescribe.

Clause 76 Employer's Officials etc., Not Personally Liable

No official of the Employer or the Engineer or the Engineer's Representative or anyone of their respective staffs or their employees shall be in any way personally bound or liable for the acts or obligations of the Employer under the Contract or answerable for default or omission in the observance or performance of any of the acts, matters or things which are herein contained.

Clause 77 Taxes and Duties

- (1) The Contractor shall list in his tender the plant and vehicles which he intends to import for the execution of the Works. The Engineer will consider the list in the context of the program of the Works and will give his approval subject to any modifications that he may see fit to make. No appeal against the Engineer's decision shall be permitted.

The Contractor will be permitted to import approved plant and vehicles required for the execution of the Works on the basis of temporary admission into Kenya and re-export thereafter upon completion of the Contract without payment of customs duties and Value Added Tax for them. If the plant and equipment shall not be re-exported, duties and taxes shall then be paid based upon their residual value at the date of completion of the Contract, or the date of withdrawal from the Works, if earlier. Plant and vehicles so imported shall not be utilized on other works not associated with the Contract unless specifically authorized by the Engineer.

- (2) The Contractor will be permitted to import approved spare parts, tires and tubes without payment of customs duty and Value Added Tax for maintenance of any imported vehicles and plant as provided in sub-clause 77.1 above, within a financial limit indicated by himself. However, this limit will not exceed 15% of the Contract Price excluding Contingencies.

- (3) All materials approved by the Engineer to be incorporated into the Works or temporary works, and whose importation into Kenya is agreed to be essential shall be free of customs duties and Value Added Tax. The Contractor shall submit a list of such materials required with the tender. The Contractor shall be required to satisfy the Engineer that such materials have actually been incorporated into the Works.

Items produced in Kenya will not be permitted to be imported without payment of customs duty and Value Added Tax.

Items produced in Kenya shall mean commercially recognized goods or products that are either mined, grown, manufactured, processed or assembled (whether the components are imported or not) in Kenya.

Clause 78 Joint Ventures

- 78.1 If the Contractor is a joint venture, all partners of the joint venture shall be jointly and severally liable to the Employer for the execution of the entire Contract in accordance with its terms and Conditions.

V) SPECIFICATIONS

Notes for preparing Specifications

- 1.0 Specifications must be drafted to present a clear and precise statement of the required standards of materials and workmanship for tenderers to respond realistically and competitively to the requirements of the Employer and ensure responsiveness of tenders. The Specifications should require that all materials, plant and other supplies to be incorporated in the permanent Works be new, unused, of the most recent or current models and incorporating all recent improvements in design and materials unless provided otherwise in the Contract. Where the Contractor is responsible for the design of any part of the permanent Works, the extent of his obligations must be stated.
- 2.0 Specifications from previous similar projects are useful and it may not be necessary to re- write specifications for every works contract.
- 3.0 There are considerable advantages in standardizing **General Specifications** for repetitive Works in recognized public sectors, such as highways, urban housing, irrigation and water supply. The General Specifications should cover all classes of workmanship, materials and equipment commonly involved in construction works, although not necessarily to be used in a particular works contract. Deletions or addenda should then adapt the General Specifications to the particular Works.
- 4.0 Care must be taken in drafting Specifications to ensure they are not restrictive. In the specifications of standards for materials, plant and workmanship, existing Kenya Standards should be used as much as possible, otherwise recognized International Standards may also be used.
- 5.0 The Employer should decide whether technical solutions to specified parts of the Works are to be permitted. Alternatives are appropriate in cases where obvious (and potentially less costly) alternatives are possible to the technical solutions indicated in tender documents for certain elements of the Works, taking into consideration the comparative specialized advantage of potential tenderers.

The Employer should provide a description of the selected parts of the Works with appropriate reference to Drawings, Specifications, Bills of Quantities, and Design or Performance criteria, stating that the alternative solutions shall be at least structurally and functionally equivalent to the basic design parameters and Specifications.

Such alternative solutions shall be accompanied by all information necessary for a complete evaluation by the Employer, including drawings, design calculations, technical specifications, breakdown of prices, proposed construction methodology and other relevant details. Technical alternatives permitted in this manner shall be considered by the Employer each on its own merits and independently of whether the tenderer has priced the item as described in the Employer's design included with the tender documents

6.0 Health Care and Welfare

In addition to providing, equipping and maintaining adequate first aid stations throughout the works in accordance with the Laws of Kenya, the Contractor shall provide and maintain on Site during the duration of the Contract, a fully equipped dispensary. This shall be with a qualified Clinical Officer/Nurse who shall offer the necessary medical advice on AIDS/HIV and related diseases to the Engineer's and Contractor's Site staff. The Contractor shall allow for this in the rates and be responsible for all site welfare arrangements at his own cost.

SECTION VI

DRAWINGS

- Note
1. A list of Contract drawings should be inserted here
 2. The actual Contract drawings including Site plans should be annexed in a separate booklet.

SECTION VII – BILLS OF QUANTITIES

Notes for preparing Bills of Quantities

1.0 Preamble To Bill of Quantities

- a) The Bill of Quantities shall form part of the Contract Documents and is to be read in conjunction with the Instructions to Tenderers, Conditions of Contract Parts I and II, Specifications and Drawings.
- b) The brief description of the items in the Bill of Quantities is purely for the purpose of identification, and in no way modifies or supersedes the detailed descriptions given in the conditions of Contract and Specifications for the full direction and description of work and materials.
- c) The Quantities set forth in the Bill of Quantities are estimated and provisional, representing substantially the work to be carried out, and are given to provide a common basis for tendering and comparing of Tenders. There is no guarantee to the Contractor that he will be required to carry out all the quantities of work indicated under any one particular item or group of items in the Bill of Quantities. The basis of payment shall be the Contractor's rates and the quantities of work actually done in fulfillment of his obligation under the Contract.
- d) The prices and rates inserted in the Bills of Quantities will be used for valuing work executed, and the Engineer will measure the whole of the works executed in accordance with this Contract.
- e) A price or rate shall be entered in ink against every item in the Bill of Quantities with the exception of items, which already have provisional sums, affixed thereto. The Tenderers are reminded that no "nil" or "included" rates or "lump-sum" discounts will be accepted. The rates for various items should include discounts if any. Tenderers who fail to comply will be disqualified.
- f) Provisional sums (including Day works) in the Bill of Quantities shall be expended in whole or in part at the discretion of the Engineer in accordance with Sub-clause 52.4 and Clause 58 of part of the Conditions of Contract.
- g) The price and rates entered in the Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all Constructional plant to be used, labour, insurance, supervision, compliance, testing, materials, erection, maintenance or works, overheads and profits, taxes and duties together with all general risks, liabilities and obligations set out or implied in the Contract, transport, electricity and telephones, water, use and replenishment of all consumables, including those required under the Contract by the Engineer and his staff.

- h) Errors will be corrected by the Employer for any arithmetic errors in computation or summation as follows:
 - (a) Where there is a discrepancy between amount in words and figures, the amount in words will govern; and
 - (b) Where there is a discrepancy between the unit rate and the total amount derived from the multiplication of the unit price and the quantity, the unit rate as quoted will govern, unless in the opinion of the Employer, there is an obviously gross misplacement of the decimal point in the unit price, in which event the total amount as quoted will govern and the unit rate will be corrected.
 - (c) If a Tenderer does not accept the correction of errors as outlined above, his Tender will be rejected.
- i) The Bills of Quantities, unless otherwise expressly stated therein, shall be deemed to have been prepared in accordance with the principles of the latest edition of the Civil Engineering Standard Method of Measurement (CESMM).
- j) “Authorised” “Directed” or “Approved” shall mean the authority, direction or approval of the Engineer.
- k) Unless otherwise stated, all measurements shall be net taken on the finished work carried out in accordance with the details shown on the drawings or instructed, with no allowance for extra cuts or fills, waste or additional thickness necessary to obtain the minimum finished thickness or dimensions required in this Contract. Any work performed in excess of the requirements of the plans and specifications will not be paid for, unless ordered in writing by the Engineer.
- l)
 - (a) Hard material, in this Contract, shall be defined as the material which, in the opinion of the Engineer, require blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for their removal, and which cannot be extracted by ripping with a dozer tractor of at least 150 brake horse power (112 kilowatt) with a single, rear-mounted, hydraulic ripper. Boulders of more than 0.2m³ occurring in soft material shall be classified as hard material.
 - (b) Soft material shall be all material other than hard material.

2.0 The objectives of the Bills of Quantities are;

- (a) to provide sufficient information on the quantities of Works to be performed to enable tenders to be prepared efficiently and accurately; and

- (b) when a Contract has been entered into, to provide a priced Bills of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bills of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bills of Quantities should be as simple and brief as possible.

- 3.0 The Bills of Quantities should be divided generally into the following sections:

- (a) **Preliminaries.**

The preliminaries should indicate the inclusiveness of the unit prices, and should state the methods of measurement which have been adopted in the preparation of the Bills of Quantities and which are to be used for the measurement of any part of the Works.

The number of preliminary items to be priced by the tenderer should be limited to tangible items such as site office and other temporary works, otherwise items such as security for the Works which are primarily part of the Contractor's obligations should be included in the Contractor's rates.

- (b) **Work Items**

- (i) The items in the Bills of Quantities should be grouped into sections to distinguish between those parts of the Works which by nature, location, access, timing or any other special characteristics may give rise to different methods of construction or phasing of the Works or considerations of cost. General items common to all parts of the Works may be grouped as a separate section in the Bills of Quantities.
 - (ii) The brief description of the items in the Bill of Quantities should in no way modify or supersede the detailed descriptions given in the Contract drawings, Conditions of Contract and Specifications.
 - (iii) Quantities should be computed net from the Drawings, unless directed otherwise in the Contract, and no allowance should be made for bulking, shrinkage or waste. Quantities should be rounded up or down where appropriate.

- (iv) The following units of measurement and abbreviations are recommended for use.

<i>Unit</i>	<i>Abbreviation</i>	<i>Unit</i>	<i>Abbreviation</i>
cubic meter	m ³ or cu m	millimeter	mm
hectare	ha	month	mon
hour	h	number	nr
kilogram	kg	square meter	m ² or sq m
lump sum	sum	square millimeter	mm ² or sq mm
meter	m	week	wk
metric ton (1,000 kg)	t		

- (v) The commencing surface should be identified in the description of each item for Work involving excavation, boring or drilling, for which the commencing surface is not also the original surface. The excavated surface should be identified in the description of each item for Work involving excavation for which the excavated surface is not also the final surface. The depths of Work should be measured from the commencing surface to the excavated surface, as defined.

(c) Daywork Schedule

A Daywork Schedule should be included if the probability of unforeseen work, outside the items included in the Bills of Quantities is relatively high. To facilitate checking by the Employer of the realism of rates quoted by the tenderers, the Daywork Schedule should normally comprise:

- (i) a list of the various classes of labour, and materials for which basic Daywork rates or prices are to be inserted by the tenderer, together with a statement of the conditions under which the Contractor will be paid for Work executed on a Daywork basis; and
- (ii) a percentage to be entered by the tenderer against each basic Daywork Subtotal amount for labour, materials and plant representing the Contractor's profit, overheads, supervision and other charges.

(d) Provisional Quantities and Provisional Sums

- (i) Provision for quantity contingencies in any particular item or class of Work with a high expectation of quantity overrun should be made by entering specific “Provisional Quantities” or “Provisional Items” in the Bills of Quantities, and *not* by increasing the quantities for that item or class of Work beyond those of the Work normally expected to be required. To the extent not covered above, a general provision for physical contingencies (quantity overruns) should be made by including a “Provisional Sum” in the Summary of the Bills of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a “Provisional Sum” in the Summary of the Bills of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises.
- (ii) Provisional Sums to cover specialized works normally carried out by Nominated Sub Contractors should be avoided and instead Bills of Quantities of the specialised Works should be included as a section of the main Bill of Quantities to be priced by the Main Contractor. The Main Contractor should be required to indicate the name (s) of the specialised firms he proposes to engage to carry out the specialized Works as his approved domestic sub-contractors. Only Provisional Sums to cover specialized Works by statutory authorities should be included in the Bills of Quantities.
- (iii) Unless otherwise provided in the Contract, the Provisional Sums included in the Bills of Quantities should always be expended in whole or in part at the discretion of the Engineer after full consultation with the Employer.

(e) Summary

The Summary should contain a tabulation of the separate parts of the Bills of Quantities carried forward, with Provisional Sums for Dayworks, physical (quantity) contingencies, and price contingencies (upward price adjustment) where applicable.

SECTION VIII – STANDARD FORMS

LIST OF STANDARD FORMS

- (i) Form of Invitation for Tenders
- (ii) Form of Tender
- (iii) Appendix to Form of Tender
- (iv) Letter of Acceptance
- (v) Form of Agreement
- (vi) Form of Tender Security
- (vii) Performance Bank
Guarantee(unconditional)
- (viii) Bank Guarantee for Advance Payment
- (ix) Tender Questionnaire
- (xi) Confidential Business Questionnaire
- (x) Statement of Foreign Currency
Requirement
- (xi) Schedule of Materials;- Basic Prices
- (xii) Schedule of Labour;- Basic Prices
- (xiii) Schedule of Plant and Equipment
- (xv) Details of Sub-Contractors
- (xvi) Certificate of Tenderer's Site visit
- (xvii) Form of Written Power of Attorney
- (xviii) Key Personnel
- (xix) Completed Civil Works
- (xx) Schedule of Ongoing Projects
- (xxi) Other Supplementary Information
- (xxii) Declaration Form
- (xxiii) Request for Review

FORM OF INVITATION FOR TENDERS

_____ [date]

To: _____ [name of Contractor]
_____ [address]

Dear Sirs:

Reference: _____ [Contract Name]

You have been prequalified to tender for the above project.

We hereby invite you and other prequalified tenderers to submit a tender for the execution and completion of the above Contract.

A complete set of tender documents may be purchased by you from _____

_____ [mailing address, cable/telex/facsimile numbers].

Upon payment of a non-refundable fee of Kshs _____

All tenders must be accompanied by _____ number of copies of the same and a security in the form and amount specified in the tendering documents, and must be delivered to

_____ [address and location]

at or before _____ (time and date). Tenders will be opened immediately thereafter, in the presence of tenderers' representatives who choose to attend.

Please confirm receipt of this letter immediately in writing by cable/facsimile or telex.

Yours faithfully,

_____ Authorised Signature

_____ Name and Title

FORM OF TENDER

TO: _____ [Name of Employer] _____ [Date]
_____ [Name of Contract]

Dear Sir,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above named Works, we, the undersigned offer to construct, install and complete such Works and remedy any defects therein for the sum of Kshs. _____ [Amount in figures] Kenya Shillings _____ [Amount in words]
2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Project Manager's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Appendix to Conditions of Contract.
3. We agree to abide by this tender until _____ [Insert date], and it shall remain binding upon us and may be accepted at any time before that date.
4. Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereof, shall constitute a binding Contract between us.
5. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this _____ day of _____ 20 _____

Signature _____ in the capacity of _____

duly authorized to sign tenders for and on behalf of

_____ [Name of Employer]
of _____ [Address of Employer]

Witness; Name _____

Address _____

Signature _____

Date _____

APPENDIX TO FORM OF TENDER

(This appendix forms part of the tender)

CONDITIONS OF CONTRACT	CLAUSE	AMOUNT
Tender Security (Bank Guarantee only)		Kshs 2,000,000.00
Amount of Performance Security (Unconditional Bank Guarantee)	10.1	5 percent of Tender Sum in the form of Unconditional Bank Guarantee
Program to be submitted	14.1	Not later than 28 days after issuance of Order to Commence
Cashflow estimate to be submitted	14.3	Not later than 28 days after issuance of Order to Commence
Minimum amount of Third Party Insurance	23.2	Kshs. To be determined by Contractor
Period for commencement, from the Engineer's order to commence	41.1	28 days
Time for completion	43.1	8 months
Amount of liquidated damages	47.1	Kshs. per day
Limit of liquidated damages	47.1	___% of Contract Value
Defect Liability period	49.1	6 Months
Percentage of Retention	60.5	10% of Interim Payment Certificate
Limit of Retention Money	60.5	10 % of Contract Price
Minimum amount of interim certificates	60.2	Contract value/Time for completion in months
Time within which payment to be made after Interim Payment Certificate signed by Engineer	60.8	30 days
Time within which payment to be made after Final Payment Certificate signed by Engineer	60.8	60 days
Appointer of Arbitrator	67(3)	Chief Justice of The Republic of Kenya
Notice to Employer and Engineer	68.2	The Employers address is: County Assembly Clerk, P.O.Box 7-40600, <u>SIAYA</u> The Engineer's address is: Superintendent Engineer – County Assembly of Siaya, P.O.Box 7-40600, <u>SIAYA</u>

Signature of Tender..... Date.....

LETTER OF ACCEPTANCE
[letterhead paper of the Employer]

_____ [date]

To: _____
 [*name of the Contractor*]

 [*address of the Contractor*]

Dear Sir,

This is to notify you that your Tender dated _____
for the execution of _____
[name of the Contract and identification number, as given in the Tender documents]
for the Contract Price of Kshs. _____ *[amount in*
figures] Kenya Shillings _____ *(amount in words)*] in
accordance with the Instructions to Tenderers is hereby accepted.

You are hereby instructed to proceed with the execution of the said Works in
accordance with the Contract documents.

Authorized Signature

Name and Title of Signatory

Attachment : Agreement

FORM OF AGREEMENT

THIS AGREEMENT, made the _____ day of _____ 20 _____ between _____ of [or whose registered office is situated at] _____ (hereinafter called "the Employer") of the one part AND _____ of [or whose registered office is situated at] _____ (hereinafter called "the Contractor") of the other part.

WHEREAS THE Employer is desirous that the Contractor executes

_____ (*name and identification number of Contract*) (hereinafter called "the Works") located at _____ [*Place/location of the Works*] and the Employer has accepted the tender submitted by the Contractor for the execution and completion of such Works and the remedying of any defects therein for the Contract Price of Kshs _____ [*Amount in figures*], Kenya Shillings _____ [*Amount in words*].

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 hereinafter referred to.
2. The following documents shall be deemed to form and shall be read and construed as part of this Agreement i.e.
 - (i) Letter of Acceptance
 - (ii) Form of Tender
 - (iii) Conditions of Contract Part I
 - (iv) Conditions of Contract Part II and Appendix to Conditions of Contract
 - (v) Specifications
 - (vi) Drawings
 - (vii) Priced Bills of Quantities
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor in

consideration of the execution and completion of the Works 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 thereto have caused this Agreement to be executed the day and year first before written.

The common Seal of _____

Was hereunto affixed in the presence of _____

Signed Sealed, and Delivered by the said _____

Binding Signature of Employer _____

Binding Signature of Contractor _____

In the presence of (i) Name _____

Address _____

Signature _____

[ii] Name _____

Address _____

Signature _____

FORM OF TENDER SECURITY

WHEREAS(hereinafter called “the Tenderer”) has submitted his tender dated for the construction of
..... (name of Contract)

KNOW ALL PEOPLE by these presents that WE having our registered office at(hereinafter called “the Bank”), are bound unto(hereinafter called “the Employer”) in the sum of Kshs..... for which payment well and truly to be made to the said Employer, the Bank binds itself, its successors and assigns by these presents sealed with the Common Seal of the said Bank this Day of20.....

THE CONDITIONS of this obligation are:

1. If after tender opening the tenderer withdraws his tender during the period of tender validity specified in the instructions to tenderers
Or
2. If the tenderer, having been notified of the acceptance of his tender by the Employer during the period of tender validity:
 - (a) fails or refuses to execute the form of Agreement in accordance with the Instructions to Tenderers, if required; or
 - (b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Tenderers;
 - (c) Rejects a correction or an arithmetic error in the tender.

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him, 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 said date.

<i>[date]</i>	<i>[signature of the Bank]</i>
<i>[witness]</i>	<i>[seal]</i>

(Amend accordingly if provided by the Insurance Company)

PERFORMANCE BANK GUARANTEE (UNCONDITIONAL)

To: _____(Name of Employer) _____(Date)
_____ (Address of Employer)

Dear Sir,

WHEREAS _____(hereinafter called “the Contractor”) has undertaken, in pursuance of Contract No. _____ dated _____ to execute _____ (hereinafter called “the Works”);

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognised bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of Kshs. _____ (*amount of Guarantee in figures*) Kenya Shillings _____ (*amount of Guarantee in words*), and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of Kenya Shillings _____ (*amount of Guarantee in words*) as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change, addition or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any change, addition, or modification.

This guarantee shall be valid until the date of issue of the Certificate of Completion.

SIGNATURE AND SEAL OF THE GUARANTOR _____

Name of Bank _____

Address _____

Date _____

(Amend accordingly if provided by Insurance Company)

BANK GUARANTEE FOR ADVANCE PAYMENT

To: _____ [name of Employer] _____ (Date)
_____ [address of Employer]

Gentlemen,

Ref: _____ [name of Contract]

In accordance with the provisions of the Conditions of Contract of the above-mentioned Contract, We, _____ [name and Address of Contractor] (hereinafter called "the Contractor") shall deposit with _____ [name of Employer] a bank guarantee to guarantee his proper and faithful performance under the said Contract in an amount of Kshs. _____ [amount of Guarantee in figures] Kenya Shillings _____ [amount of Guarantee in words].

We, _____ [bank or financial institution], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to _____ [name of Employer] on his first demand without whatsoever right of objection on our part and without his first claim to the Contractor, in the amount not exceeding Kshs _____ [amount of Guarantee in figures] Kenya Shillings _____ [amount of Guarantee in words], such amount to be reduced periodically by the amounts recovered by you from the proceeds of the Contract.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between _____ [name of Employer] and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

No drawing may be made by you under this guarantee until we have received notice in writing from you that an advance payment of the amount listed above has been paid to the Contractor pursuant to the Contract.

This guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until _____ (name of Employer) receives full payment of the same amount from the Contract.

Yours faithfully,

Signature and Seal _____

Name of the Bank or financial institution _____

Address _____

Date _____

Witness: Name: _____

Address: _____

Signature: _____

Date: _____

31. 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 address 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*)

CONFIDENTIAL BUSINESS QUESTIONNAIRE

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

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

Part 1 – General

Business Name

Location of business premises; Country/Town.....

Plot No..... Street/Road

Postal Address..... Tel No.....

Nature of Business.....

Current Trade Licence No..... Expiring date.....

Maximum value of business which you can handle at any time: K.
pound.....

Name of your bankers.....

Branch.....

Part 2 (a) – Sole Proprietor

Your name in full..... Age.....

Nationality..... Country of Origin.....

*Citizenship details

Part 2 (b) – Partnership

Give details of partners as follows:

	<i>Name in full</i>	<i>Nationality</i>	<i>Citizenship Details</i>	<i>Shares</i>
1.....				
2.....				
3.....				

Part 2(c) – Registered Company:

Private or public.....

STATEMENT OF FOREIGN CURRENCY REQUIREMENTS

(See Clause 60[5] of the Conditions of Contract)

In the event of our Tender for the execution of _____

_____ (*name of Contract*) being accepted, we would require in accordance with Clause 21 of the Conditions of Contract, which is attached hereto, the following percentage:

(Figures)..... (Words).....

of the Contract Sum, (Less Fluctuations) to be paid in foreign currency.

Currency in which foreign exchange element is required:

.....
.....

Date: The Day of 20.....

Enter 0% (zero percent) if no payment will be made in foreign currency.

Maximum foreign currency requirement shall be _____ (percent) of the Contract Sum, less Fluctuations.

(Signature of Tenderer)

SCHEDULE OF MATERIALS;-BASIC PRICES
(Ref: Clause 70 of Conditions of Contract)

MATERIAL	UNIT	ORIGIN AND PRICE			TRANSPORTATION COST FROM SOURCE OF ORIGIN	
		COUNTRY OF ORIGIN	SUPPLIER	PRICE	MODE	PRICE (KSHS)
Cement	Mg					
Lime	Mg					
Sand	Mg					
Aggregate	Mg					
Diesel	L					
Regular Petrol	L					
Super Petrol	L					
Kerosene	L					
Structural steel	Mg					
Gabion Mesh	M2					
Reinforcement Steel	Mg					
Explosives	Kg					
Oil and Lubricants	L					
Bitumen Emulsion A3	L					
Bitumen Emulsion A4	L					
Bitumen Emulsion K1	L					
Bitumen Emulsion K3	L					
Bitumen 80/100	Kg					
Bitumen MC 30	ML					
Bitumen MC 70	L					
Bitumen MC 3000	L					
Ammonium nitrate for blasting	Kg					

I certify that the above information is correct.

.....
(Title)

.....
(Signature)

.....
(Date)

The prices inserted above shall be those prevailing 30 days before the submission of Tenders and shall be quoted in Kenya Shillings using the exchange rates specified in the Appendix to Form of Tender.

Prices of imported materials to be quoted CIF Mombasa or Nairobi as appropriate depending on whether materials are imported by the tenderer directly or through a local agent.

Transportation costs for imported materials to be quoted from Mombasa or Nairobi as appropriate to _____ (Contract Site) depending on whether materials are imported directly by the tenderer or through a local agent.

SCHEDULE OF LABOUR:- BASIC RATES
(Reference: Clause 70 of Conditions of Contract)

LABOUR CATEGORY	UNIT (MONTH/SHIFT/HOUR)	RATES

Categories to be generally in accordance with those used by the Kenya Building Construction and Engineering and Allied Trades Workers' Union.

DETAILS OF SUB-CONTRACTORS

If the Tenderer wishes to sublet any portions of the Works under any heading, he must give below details of the sub-contractors he intends to employ for each portion.

Failure to comply with this requirement may invalidate the tender.

(1) Portion of Works to be sublet:

.....

(i) Full name of Sub-contractor and address of head office:

.....

(ii) Sub-contractor's experience of similar works carried out in the last 3 years with Contract value:

.....

.....

(2) Portion of Works to sublet:

.....

(i) Full name of sub-contractor and address of head office:

.....

.....

.....

(ii) Sub-contractor's experience of similar works carried out in the last 3 years with contract value:

.....

[Signature of Tenderer)

Date

CERTIFICATE OF TENDERER’S VISIT TO SITE

This is to certify that

[Name/s].....

.....

Being the authorized representative/Agent of [Name of Tenderer]

.....

.....

participated in the organized inspection visit of the site of the works for the **(Name of Contract:**

..... day of.....20.....

Signed.....

(Employer’s Representative)

.....

NOTE: This form is to be completed whether the site visit is made at the time of the organized site or privately organized.

FORM OF WRITTEN POWER-OF-ATTORNEY

The Tenderer consisting of a joint venture shall state here below the name and address of his representative who is authorised to receive on his behalf correspondence in connection with the Tender.

.....
(Name of Tenderer's Representative in block letters)

.....
(Address of Tenderer's Representative)

.....
(Signature of Tenderer's Representative)

KEY PERSONNEL

DESIGNATION	NAME	NATIONALITY	SUMMARY OF QUALIFICATIONS AND EXPERIENCE
Headquarters: 1. Director 2. 3. 4. 5. etc.			
Site Office: 1. Site Superintendent 2. 3. 4. 5. etc.			

I certify that the above information is correct.

.....
(Title)

.....
(Signature)

.....
(Date)

**SCHEDULE OF COMPLETED CIVIL WORKS CARRIED OUT BY THE
TENDERER IN THE LAST EIGHT YEARS**

DESCRIPTION OF WORKS AND CLIENT	TOTAL VALUE OF WORKS (KSHS)	CONTRACT PERIOD (YEARS)	YEAR COMPLETED

I certify that the above Civil Works were successfully carried out and completed by ourselves.

.....
(Title)

.....
(Signature)

.....
(Date)

*Value in Kshs using Central Bank of Kenya mean exchange rate at a reference date 30 days before date of tender opening.

SCHEDULE OF ONGOING PROJECTS

DESCRIPTION OF WORK AND CLIENT	CONTRACT PERIOD	DATE OF COMMENCEMENT	DATE OF COMPLETION	TOTAL VALUE OF WORKS (KSHS.)	PERCENTAGE COMPLETED TO DATE

I certify that the above Civil Works are being carried out by ourselves and that the above information is correct.

.....
(Title)

.....
(Signature)

.....
(Date)

DECLARATION FORM

Date _____

To _____

The tenderer i.e. (name and address) _____
_____ declare the following:

- a) Has not been debarred from participating in public procurement.
- b) Has not been involved in and will not be involved in corrupt and fraudulent practices regarding public procurement.

Title

Signature

Date

(To be signed by authorized representative and officially stamped)

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 of20.....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...

FOR OFFICIAL USE ONLY

Lodged with the Secretary Public Procurement Administrative Review Board on
day of20.....

SIGNED
Board Secretary

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	CENTRAL SAKWA WARD .BOREHOLE DRILLING AND EQUIPING				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	200		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	100		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	100		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
Carried to Summary					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch O315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	Construct masonry water pipe chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
Carried to Summary					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK.</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449 8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<i>Plastic Water tank</i>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4	-	-
C	50mm x 90 gi valve	NO	4	-	-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. <u>ELEMENT NO. 01</u> <u>SUB-STRUCTURES (ALL PROVISIONAL)</u>				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil <u>Excavate in normal soil depth not exceeding 1500mm</u>	SM	7		-
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
	TOTAL FOR DOOR CARRIED TO SUMMARY			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: <u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>	SM	25		-
D	Plastered surfaces <u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint.</u>	SM	25		-
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u>				
	<u>Cement and sand (1:4) screeded beds: on</u>				
F	50mm (Average) roofs : to falls and cross falls: finished to receive EPDM rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
	TOTAL FOR ELEMENT NO. 01 -(substructure)		-
	TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
	TOTAL FOR ELEMENT NO. 03 - (doors)		-
	TOTAL FOR ELEMENT NO:04(windows)		-
	TOTAL FOR ELEMENT NO. 05 - (finishes)		-
	SUB TOTAL I KSHS.		-
PROVISIONAL SUMS			
	Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding		
	CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contingencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
		Ksh	Ksh
	GRAND SUMMARY		
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR CENTRAL SAKWA WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address_____		
D	Signature & STAMP		
E	Date_____		
F	Witness name_____		
G	Address_____		
H	Signature_____		
J	Date_____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WEST SAKWAL SAKWA WARD <u>.BOREHOLE DRILLING AND EQUIPING</u>				
A	Conduct a hydrogeological study complete with provision of the hydrogeological report by approved hydrogeologist and obtaining all relevant permits from WRMA, NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment, Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	200		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	100		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	100		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch O315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	Construct masonry water rate chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
Carried to Summary					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK.</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200	-	-
G	16mm ditto	KG	900	-	-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<i>Plastic Water tank</i>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling; reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 04 DOORS				
A.	standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 05				
	FINISHES				
	FLOOR				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	WALL FINISHES				
	Cement and sand (1:4) externally:				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement, lime and sand (1:1:6) steel trowelled smooth				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.				
D	Plastered surfaces	SM	25		-
	Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint				
E	Rendered surfaces	SM	3		-
	Flat Roof Finishes				
	Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to				
F	50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber	SM	6		-
G	EPDM rubber Laid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

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SUMMARY		
TOTAL FOR ELEMENT NO. 01 -(substructure)		-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
TOTAL FOR ELEMENT NO. 03 - (doors)		-
TOTAL FOR ELEMENT NO:04(windows)		-
TOTAL FOR ELEMENT NO. 05 - (finishes)		-
SUB TOTAL I	KSHS.	-
PROVISIONAL SUMS		
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustrading		
CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contingencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh _____	Ksh _____
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR WEST SAKWA WARD	Ksh _____	-
A	Amount in words kenya shillings:		
B	Tenderers name _____		
C	Address _____		
D	Signature & STAMP _____		
E	Date _____		
F	Witness name _____		
G	Address _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>NORTH SAKWA WARD</u> <u>.BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMAand any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	200		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	100		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	100		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 11/4 standard 3m pipe	LM	90		-
D	Dayliff 11/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	Construct a rectangular metal frame chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
Carried to Summary					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
F	8mm dia bars	KG	150		-
G	12mm ditto	KG	200		-
	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<u>Plastic Water tank</u>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>selected fine dressed natural stone walling</u>				
	<u>with a minimum of 7.0 N/mm² average</u>				
	<u>compressive strength to B.S 5390; bedded</u>				
	<u>and jointed in cement and sand (1:4)</u>				
	<u>mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 04 DOORS				
A.	standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 05				
	FINISHES				
	FLOOR				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	WALL FINISHES				
	Cement and sand (1:4) externally:				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement lime and sand (1:1:6) steel trowelled smooth				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.				
D	Plastered surfaces	SM	25		-
	Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint				
E	Rendered surfaces	SM	3		-
	Flat Roof Finishes				
	Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roofs : to falls and cross falls: finished to receive EPDM rubber				
F		SM	6		-
G	EPDM rubber Laid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I	KSHS.		-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contingencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh _____	Ksh _____
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR NORTH SAKWA WARD	Ksh _____	-
A	Amount in words kenya shillings:		
B	Tenderers name _____		
C	Address _____		
D	Signature & STAMP _____		
E	Date _____		
F	Witness name _____		
G	Address _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SOUTH SAKWA WARD</u> <u>.BOREHOLE DRILLING AND EQUIPING</u>				
A	Conduct a hydrogeological study complete with provision of the hydrogeological report by approved hydrogeologist and obtaining all relevant permits from WRMA, NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment, Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	200		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	100		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	100		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
Carried to Summary					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Day liff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch O315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	Construct masonry water pipe chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
Carried to Summary					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
F	8mm dia bars	KG	150		-
G	12mm ditto	KG	200		-
	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<u>Plastic Water tank</u>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK.				
	<u>ELEMENT NO. 01</u>				
	<u>SUB-STRUCTURES (ALL PROVISIONAL)</u>				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling; reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 04 DOORS				
A.	standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
	TOTAL FOR DOOR CARRIED TO SUMMARY			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix: steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 05				
	FINISHES				
	FLOOR				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	WALL FINISHES				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint.</u>				
E	Rendered surfaces	SM	3		-
	Flat Roof Finishes				
	Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber				
F		SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I	KSHS.		-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contingencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh _____	Ksh _____
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR SOTH SAKWA WARD	Ksh _____	-
A	Amount in words kenya shillings:		
B	Tenderers name _____		
C	Address _____		
D	Signature & STAMP _____		
E	Date _____		
F	Witness name _____		
G	Address _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>YIMBO WEST WARD</u> <u>.BOREHOLE DRILLING AND EQUIPING</u>				
A	Conduct a hydrogeological study complete with provision of the hydrogeological report by approved hydrogeologist and obtaining all relevant permits from WRMA, NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment, Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	200		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	100		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	100		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch O315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	Construct masonry water pipe chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
Carried to Summary					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK.</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449 8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<u>Plastic Water tank</u>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site <u>Excavate in normal soil depth not exceeding 1500mm</u>	SM	7		-
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO 2				
	WALLING AND BEAMS				
	<u>selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 04 DOORS				
A.	standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 05				
	FINISHES				
	FLOOR				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	WALL FINISHES				
	Cement and sand (1:4) externally:				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.				
D	Plastered surfaces	SM	25		-
	Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint				
E	Rendered surfaces	SM	3		-
	Flat Roof Finishes				
	Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber				
F	rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I	KSHS.		-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contingencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh _____	Ksh _____
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR WEST IMBO WARD	Ksh _____	-
A	Amount in words kenya shillings:		
B	Tenderers name _____		
C	Address _____		
D	Signature & STAMP _____		
E	Date _____		
F	Witness name _____		
G	Address _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>YIMBO EAST WARD</u>				
	<u>.BOREHOLE DRILLING AND EQUIPING</u>				
A	Conduct a hydrogeological study complete with provision of the hydrogeological report by approved hydrogeologist and obtaining all relevant permits from WRMA, NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment, Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	200		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	100		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	100		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch O315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
Carried to Summary					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<i>Plastic Water tank</i>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO 2				
	WALLING AND BEAMS				
	<u>selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 04 DOORS				
A.	standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 05				
	FINISHES				
	FLOOR				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	WALL FINISHES				
	Cement and sand (1:4) externally:				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement lime and sand (1:1:6) steel trowelled smooth				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.				
D	Plastered surfaces	SM	25		-
	Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint				
E	Rendered surfaces	SM	3		-
	Flat Roof Finishes				
	Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM				
F	rubber	SM	6		-
G	EPDM rubber Laid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I	KSHS.		-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contingencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh _____	Ksh _____
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR EAST YIMBO WARD	Ksh _____	-
A	Amount in words kenya shillings:		
B	Tenderers name _____		
C	Address _____		
D	Signature & STAMP _____		
E	Date _____		
F	Witness name _____		
G	Address _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>WEST UYOMA WARD</u>				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	150		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	100		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	50		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	<u>Carried to Summary</u>				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 11/4 standard 3m pipe	LM	90		-
D	Dayliff 11/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Lavaque water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250mmWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
F	8mm dia bars	KG	150		-
G	12mm ditto	KG	200		-
	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<u>Plastic Water tank</u>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
	<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>				
C	200mm wide.	LM	9		-
	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses				
D		SM	7		-
	<u>Plinths</u>				
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
	Total to collection				-
	Total collection below				
	Brought forward from page:2/1				-
	From above				-
	TOTAL CARRIED TO SUMMARY				Ksh <u><u>-</u></u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
C	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in Beams</u>	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	Standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement, lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u>				
	<u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to</u>				
F	50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I	KSHS.		-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR WEST OYOMA WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address_____		
D	Signature & STAMP		
E	Date_____		
F	Witness name_____		
G	Addrress_____		
H	Signature_____		
J	Date_____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>NORTH UYOMA WARD</u>				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	150		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	100		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	50		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	<u>Carried to Summary</u>				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Day liff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch O315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lighting arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	LARGE WATER PIPE trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<i>Plastic Water tank</i>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
	<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>				
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
	<u>Plinths</u>				
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
	Total to collection				-
	Total collection below				-
	Brought forward from page:2/1				-
	From above				-
	TOTAL CARRIED TO SUMMARY			Ksh	<u><u>-</u></u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling; reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
C	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in Beams</u>	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	Painting steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u>				
	<u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber</u>				
F	rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
	TOTAL FOR ELEMENT NO. 01 -(substructure)		-
	TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
	TOTAL FOR ELEMENT NO. 03 - (doors)		-
	TOTAL FOR ELEMENT NO:04(windows)		-
	TOTAL FOR ELEMENT NO. 05 - (finishes)		-
	SUB TOTAL I KSHS.		-
PROVISIONAL SUMS			
	Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding		
	CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR NORTH UYOMA WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address_____		
D	Signature & STAMP		
E	Date_____		
F	Witness name_____		
G	Addrress_____		
H	Signature_____		
J	Date_____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SOUTH UYOMA WARD</u> <u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtajng all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	150		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	100		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	50		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch O315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	LARGE WATER PIPE trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
Carried to Summary					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<u>Plastic Water tank</u>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
	<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>				
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
	<u>Plinths</u>				
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
	Total to collection				-
	Total collection below				
	Brought forward from page:2/1				-
	From above				-
	TOTAL CARRIED TO SUMMARY			Ksh	<u>-</u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO.2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	Paintwork steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement, lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	Flat Roof Finishes				
	Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber	SM	6		-
F	rubber	SM	6		-
G	EPDM rubber Laid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
	TOTAL FOR ELEMENT NO. 01 -(substructure)		-
	TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
	TOTAL FOR ELEMENT NO. 03 - (doors)		-
	TOTAL FOR ELEMENT NO:04(windows)		-
	TOTAL FOR ELEMENT NO. 05 - (finishes)		-
	SUB TOTAL I KSHS.		-
PROVISIONAL SUMS			
	Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding		
	CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR SOUTH OYOMA WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address_____		
D	Signature & STAMP		
E	Date_____		
F	Witness name_____		
G	Addrress_____		
H	Signature_____		
J	Date_____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>EAST ASEMBO WARD</u>				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	200		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	100		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	50		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Day liff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch O315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lighting arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	LARGE WATER PIPE trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
Carried to Summary					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449 8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<u>Plastic Water tank</u>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
	<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>				
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
	<u>Plinths</u>				
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
	Total to collection				-
	Total collection below				
	Brought forward from page:2/1				-
	From above				-
	TOTAL CARRIED TO SUMMARY			Ksh	<u>-</u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	Paintwork steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces <u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>	SM	25		-
E	Rendered surfaces Flat Roof Finishes	SM	3		-
	<u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM</u>				
F	rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
	TOTAL FOR ELEMENT NO. 01 -(substructure)		-
	TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
	TOTAL FOR ELEMENT NO. 03 - (doors)		-
	TOTAL FOR ELEMENT NO:04(windows)		-
	TOTAL FOR ELEMENT NO. 05 - (finishes)		-
	SUB TOTAL I	KSHS.	-
PROVISIONAL SUMS			
	Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding		
	CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR EAST ASEMBO WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address_____		
D	Signature & STAMP		
E	Date_____		
F	Witness name_____		
G	Addrress_____		
H	Signature_____		
J	Date_____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>WEST ASEMBO WARD</u> <u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Undertake hydrogeological study complete with provision of the hydrogeological report by approved hydrogeologist and obtaining all relevant permits from WRMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment, Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	150		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	100		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	50		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C		LM	90		-
D	Dayliff 11/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch O315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lighting arrestors	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	LARGE WATER PIPE trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<i><u>Plastic Water tank</u></i>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site <u>Excavate in normal soil depth not exceeding 1500mm</u>	SM	7		-
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
	<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>				
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
	<u>Plinths</u>				
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
	Total to collection				-
	Total collection below				
	Brought forward from page:2/1				-
	From above				-
	TOTAL CARRIED TO SUMMARY			Ksh	<u>-</u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	Paintwork steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u>				
	<u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM</u>				
F	rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

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SUMMARY		
TOTAL FOR ELEMENT NO. 01 -(substructure)		-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
TOTAL FOR ELEMENT NO. 03 - (doors)		-
TOTAL FOR ELEMENT NO:04(windows)		-
TOTAL FOR ELEMENT NO. 05 - (finishes)		-
SUB TOTAL I	KSHS.	-
PROVISIONAL SUMS		
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding		
CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh _____	Ksh _____
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR EAST ASEMBO WARD	Ksh _____	-
A	Amount in words kenya shillings:		
B	Tenderers name _____		
C	Address _____		
D	Signature & STAMP _____		
E	Date _____		
F	Witness name _____		
G	Address _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	CENTRAL GEM WARD				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	120		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and instammation of 152mm diameter shutter slotted steel casings	LM	60		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	60		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the oposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masionary meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
Carried to Summary					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m) SHS as structural columns	LM	30		-
I	100 x 50 x 4 (9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<u>Plastic Water tank</u>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK.				
	ELEMENT NO. 01				
	<u>SUB-STRUCTURES (ALL PROVISIONAL)</u>				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY					Ksh <u><u>-</u></u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses extra over walling for pointing on masonry walling : horizontal recessed and	SM	25		-
B	flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 04 DOORS				
A.	Standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel puty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u>				
	<u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber</u>				
F	rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I	KSHS.		-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustrading			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contingencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR CENTRAL GEM WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address _____		
D	Signature & STAMP		
E	Date _____		
F	Witness name _____		
G	Address _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>EAST GEM WARD</u>				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	120		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	60		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	60		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT

A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1			-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4			-
C	supply of 152mm diameter borehole cap	NO	1			-
D	supply of water for drilling operations and camp use.	SUM	1			-
E	collect formation samples as specified at 2m intervals	NO.	76			-
F	Geological Logging	NO.	1			-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1			-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1			-
I	Waiting time	HR	48			-
Carried to Summary						-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
Carried to Summary					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<u>Plastic Water tank</u>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY					Ksh <u> -</u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 04 DOORS				
A.	Standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel puty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u> <u>FINISHES</u> <u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		0.00
	<u>WALL FINISHES</u> <u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u> <u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber</u>				
F	rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I	KSHS.		-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustrading			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR EAST GEM WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address _____		
D	Signature & STAMP		
E	Date _____		
F	Witness name _____		
G	Address _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WEST GEM WARD				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaining all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	120		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	60		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	60		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT

SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS					
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
Carried to Summary					-
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT

A	<p>supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT</p>	NO	1		-
B	<p>Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests</p>	LM	50		-
C	<p>construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.</p>	NO	1		-
Carried to Summary					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<u>Plastic Water tank</u>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
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A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY					Ksh <u> -</u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390: bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 04 DOORS				
A.	Standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel puty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u> <u>FINISHES</u> <u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u> <u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u>				
	<u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to</u>				
F	50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I	KSHS.		-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR WEST GEM WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address_____		
D	Signature & STAMP		
E	Date_____		
F	Witness name_____		
G	Address_____		
H	Signature_____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>NORTH GEM WARD</u>				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Conduct a hydrogeological study complete with provision of the hydrogeological report by approved hydrogeologist and obtaining all relevant permits from WRMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment, Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	120		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	60		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	60		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lighting arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m) SHS as structural columns	LM	30		-
I	100 x 50 x 4 (9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<u>Plastic Water tank</u>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY					Ksh <u> -</u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 04 DOORS				
A.	Standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel puty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u> <u>FINISHES</u> <u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u> <u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement, lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces Flat Roof Finishes	SM	3		-
	<u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber</u>				
F	rubber	SM	6		-
G	EPDM rubber Laid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I	KSHS.		-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustrading			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR NORTH GEM WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address_____		
D	Signature & STAMP		
E	Date_____		
F	Witness name_____		
G	Address_____		
H	Signature_____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SOUTH GEM WARD</u>				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaining all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	120		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	60		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	60		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	<u>Carried to Summary</u>				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lighting arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
Carried to Summary					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<u>Plastic Water tank</u>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT

	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	<u>Ksh -</u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel puty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u> <u>FINISHES</u> <u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u> <u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u> Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM				
F	rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I	KSHS.		-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustrading			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR SOUTH GEM WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address_____		
D	Signature & STAMP		
E	Date_____		
F	Witness name_____		
G	Address_____		
H	Signature_____		
J	Date_____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>YALA TOWNSHIP WARD</u>				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Conduct a hydrogeological study complete with provision of the hydrogeological report by approved hydrogeologist and obtaining all relevant permits from WRMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment, Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	120		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	60		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	60		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory loat switch O315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting Earthrod complete with clamp and	NO	12		-
O	lighting arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<u>Plastic Water tank</u>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK.				
	ELEMENT NO. 01				
	<u>SUB-STRUCTURES (ALL PROVISIONAL)</u>				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY					Ksh <u> -</u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
B		SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 04 DOORS				
A.	Standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel puty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u> <u>FINISHES</u> <u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u> <u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u> Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber				
F	rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I	KSHS.		-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contingencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh _____	Ksh _____
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR YALA TOWNSHIP ARD	Ksh _____	-
A	Amount in words kenya shillings:		
B	Tenderers name _____		
C	Address _____		
D	Signature & STAMP _____		
E	Date _____		
F	Witness name _____		
G	Address _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>UKWALA WARD</u>				
	<u>.BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	100		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	50		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	50		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch O315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
Carried to Summary					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<i>Plastic Water tank</i>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK.				
	ELEMENT NO. 01				
	SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	<u><u>-</u></u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 04				
	DOORS				
A.	stanqarq steel casement door to Architects details overal size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel puty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 05				
	FINISHES				
	FLOOR				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	WALL FINISHES				
	Cement and sand (1:4) externally:				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth				
C	15 mm Thick two coat plaster to walls: internally <u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>	SM	25		-
D	Plastered surfaces <u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>	SM	25		-
E	Rendered surfaces Flat Roof Finishes	SM	3		-
	Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber				
F	rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY		
TOTAL FOR ELEMENT NO. 01 -(substructure)		-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
TOTAL FOR ELEMENT NO. 03 - (doors)		-
TOTAL FOR ELEMENT NO:04(windows)		-
TOTAL FOR ELEMENT NO. 05 - (finishes)		-
SUB TOTAL I	KSHS.	-
PROVISIONAL SUMS		
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding		
CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR UKWALA WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address _____		
D	Signature & STAMP		
E	Date _____		
F	Witness name _____		
G	Addrress _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>EAST UGENYA WARD</u>				
	<u>.BOREHOLE DRILLING AND EQUIPING</u>				
A	undertake hydrogeological study complete with provision of the hydrogeological report by approved hydrogeologist and obtaining all relevant permits from WRMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment, Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	100		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	50		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	50		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lighting arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
A	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
B	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
C	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
D	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
H	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
I	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
J	connections bolts, nuts and washers	KG	300		-
K	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
L	<i>Plastic Water tank</i>				
	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
M					
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK.				
	<u>ELEMENT NO. 01</u>				
	<u>SUB-STRUCTURES (ALL PROVISIONAL)</u>				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	_____

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO 2				
	WALLING AND BEAMS				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling; reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 04				
	DOORS				
A.	stanqarq steel casement door to Architects details overal size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel puty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 05				
	FINISHES				
	FLOOR				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	WALL FINISHES				
	Cement and sand (1:4) externally:				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.				
D	Plastered surfaces	SM	25		-
	Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint				
E	Rendered surfaces	SM	3		-
	Flat Roof Finishes				
	Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM				
F	rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I	KSHS.		-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
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	Ksh	Ksh
GRAND SUMMARY		
From page: 01		-
From page: 02		-
From page: 03		-
From page: 04		-
From page: 05		-
From page: 06		-
Water kiosk		-
Provisional sums		-
		-
TOTAL FOR EAST UGENYA WARD	Ksh	-

A	Amount in words kenya shillings:
B	Tenderers name
C	Address _____
D	Signature & STAMP
E	Date _____
F	Witness name _____
G	Addrress _____
H	Signature _____
J	Date _____

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WEST UGENYA WARD				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	undertake hydrogeological study complete with provision of the hydrogeological report by approved hydrogeologist and obtaining all relevant permits from WRMA, NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment, Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	100		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	50		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	50		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	LAVARE WATER PIPE trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<i><u>Plastic Water tank</u></i>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK.				
	ELEMENT NO. 01				
	SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	<u><u>-</u></u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO 2				
	WALLING AND BEAMS				
	<u>selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 04				
	DOORS				
A.	stanqarq steel casement door to Architects details overal size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel puty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 05				
	FINISHES				
	FLOOR				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	WALL FINISHES				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement, lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	Flat Roof Finishes				
	Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM				
F	rubber	SM	6		-
G	EPDM rubber Laid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I	KSHS.		-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR WEST UGENYA WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address _____		
D	Signature & STAMP		
E	Date _____		
F	Witness name _____		
G	Addrress _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>NORTH UGENYA WARD</u>				
	<u>.BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	100		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	50		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	50		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch O315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the oposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	Construct a rectangular concrete chamber of internal dimensions 1250mmL X 1250mmWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
F	8mm dia bars	KG	150		-
G	12mm ditto	KG	200		-
	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<i>Plastic Water tank</i>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK.				
	<u>ELEMENT NO. 01</u>				
	<u>SUB-STRUCTURES (ALL PROVISIONAL)</u>				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	<u><u>-</u></u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>selected fine grained natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling; reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 04				
	DOORS				
A.	stanqarq steel casement door to Architects details overal size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel puty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 05				
	FINISHES				
	FLOOR				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	WALL FINISHES				
	Cement and sand (1:4) externally:				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement, lime and sand (1:1:6) steel trowelled smooth				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.				
D	Plastered surfaces	SM	25		-
	Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint				
E	Rendered surfaces	SM	3		-
	Flat Roof Finishes				
	Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM				
F	rubber	SM	6		-
G	EPDM rubber Laid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I	KSHS.		-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL USE	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR NORTH UGENYA WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address _____		
D	Signature & STAMP		
E	Date _____		
F	Witness name _____		
G	Addrress _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>UGUNJA WARD</u> <u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	100		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	50		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	50		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m) SHS as structural columns	LM	30		-
I	100 x 50 x 4 (9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<u>Plastic Water tank</u>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. <u>ELEMENT NO. 01</u> <u>SUB-STRUCTURES (ALL PROVISIONAL)</u>				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site <u>Excavate in normal soil depth not exceeding 1500mm</u>	SM	7		-
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	<u><u>-</u></u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	Painting steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u> <u>FINISHES</u> <u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u> <u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u> <u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to</u>				
F	50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	<u>TOTAL FOR FINISHES CARRIED TO SUMMARY</u>			Ksh	-

SUMMARY		
TOTAL FOR ELEMENT NO. 01 -(substructure)		-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
TOTAL FOR ELEMENT NO. 03 - (doors)		-
TOTAL FOR ELEMENT NO:04(windows)		-
TOTAL FOR ELEMENT NO. 05 - (finishes)		-
SUB TOTAL I	KSHS.	-
PROVISIONAL SUMS		
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding		
CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contingencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL	FOR CONTRACTORS USE
		Ksh _____	Ksh _____
	GRAND SUMMARY		
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR UGUNJA WARD	Ksh _____	-
A	Amount in words kenya shillings:		
B	Tenderers name _____		
C	Address _____		
D	Signature & STAMP _____		
E	Date _____		
F	Witness name _____		
G	Address _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SIGOMERE WARD</u>				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA , NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	100		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	50		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	50		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	<u>Carried to Summary</u>				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Peđrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Peđrollo 4 pđm/1.5 kw 1ph sub - motor	NO	1		-
C	Day liff 11/4 standard 3m pipe	LM	90		-
D	Dayliff 11/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
F	8mm dia bars	KG	150		-
G	12mm ditto	KG	200		-
	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m) SHS as structural columns	LM	30		-
I	100 x 50 x 4 (9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<i>Plastic Water tank</i>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 <u>SUB-STRUCTURES (ALL PROVISIONAL)</u>				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site <u>Excavate in normal soil depth not exceeding 1500mm</u>	SM	7		-
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide. 200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	LM	9		-
D	<u>Plinths</u> 15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	<u><u>-</u></u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	Paintwork steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement, lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u>				
	<u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber</u>				
F	rubber	SM	6		-
G	EPDM rubber Laid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

	SUMMARY		
	TOTAL FOR ELEMENT NO. 01 -(substructure)		-
	TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
	TOTAL FOR ELEMENT NO. 03 - (doors)		-
	TOTAL FOR ELEMENT NO:04(windows)		-
	TOTAL FOR ELEMENT NO. 05 - (finishes)		-
	SUB TOTAL I KSHS.		-
	PROVISIONAL SUMS		
	Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding		
	CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contingencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR SIGOMERE WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address _____		
D	Signature & STAMP		
E	Date _____		
F	Witness name _____		
G	Address _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SIDINDI WARD</u>				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	100		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	50		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	50		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	<u>Carried to Summary</u>				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449 8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m) SHS as structural columns	LM	30		-
I	100 x 50 x 4 (9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<i>Plastic Water tank</i>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. <u>ELEMENT NO. 01</u> <u>SUB-STRUCTURES (ALL PROVISIONAL)</u>				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site <u>Excavate in normal soil depth not exceeding 1500mm</u>	SM	7		-
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	=====

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	Paintwork steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u>				
	<u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to</u>				
F	50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
TOTAL FOR ELEMENT NO. 01 -(substructure)			-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab			-
TOTAL FOR ELEMENT NO. 03 - (doors)			-
TOTAL FOR ELEMENT NO:04(windows)			-
TOTAL FOR ELEMENT NO. 05 - (finishes)			-
SUB TOTAL I KSHS.			-
PROVISIONAL SUMS			
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding			
CARRIED TO GRAND SUMMARY			-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
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PROVISIONAL SUMS					
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
Carried to Collection					-

ITEM	DESCRIPTION	FOR OFFICIAL	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR SIDINDI WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address _____		
D	Signature & STAMP		
E	Date _____		
F	Witness name _____		
G	Addrress _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SIAYA TOWNSHIP WARD</u>				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	120		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	60		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	60		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Lay out water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
A	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
B	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
C	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
D	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
H	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
I	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
J	connections bolts, nuts and washers	KG	300		-
K	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
L					
	<u>Plastic Water tank</u>				
	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
M					
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY					Ksh
					<u><u>-</u></u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
C	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in Beams</u>	CM	1		-
D	150mm thick suspended slab	SM	7		-
E	<u>Sawn form work or equal and approved</u> Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
H	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u> 12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	Standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u>				
	<u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber</u>				
F	rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
	TOTAL FOR ELEMENT NO. 01 -(substructure)		-
	TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
	TOTAL FOR ELEMENT NO. 03 - (doors)		-
	TOTAL FOR ELEMENT NO:04(windows)		-
	TOTAL FOR ELEMENT NO. 05 - (finishes)		-
	SUB TOTAL I KSHS.		-
PROVISIONAL SUMS			
	Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding		
	CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR SIAYA TOWNSHIP WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address_____		
D	Signature & STAMP		
E	Date_____		
F	Witness name_____		
G	Addrress_____		
H	Signature_____		
J	Date_____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>NORTH ALEGO WARD</u>				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	120		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	60		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	60		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	<u>Carried to Summary</u>				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 11/4 standard 3m pipe	LM	90		-
D	Dayliff 11/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
F	8mm dia bars	KG	150		-
G	12mm ditto	KG	200		-
	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<u>Plastic Water tank</u>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
	<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>				
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
	<u>Plinths</u>				
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
	Total to collection				-
	Total collection below				
	Brought forward from page:2/1				-
	From above				-
	TOTAL CARRIED TO SUMMARY			Ksh	<u><u>-</u></u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling; reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	Paintwork steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u>				
	<u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM</u>				
F	rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
	TOTAL FOR ELEMENT NO. 01 -(substructure)		-
	TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
	TOTAL FOR ELEMENT NO. 03 - (doors)		-
	TOTAL FOR ELEMENT NO:04(windows)		-
	TOTAL FOR ELEMENT NO. 05 - (finishes)		-
	SUB TOTAL I KSHS.		-
PROVISIONAL SUMS			
	Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding		
	CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR NORTH ALEGO WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address_____		
D	Signature & STAMP		
E	Date_____		
F	Witness name_____		
G	Addrress_____		
H	Signature_____		
J	Date_____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>WEST SOUTH ALEGO WARD</u> <u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	120		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	60		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	60		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	<u>Carried to Summary</u>				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lighting arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	LARGE WATER PIPE trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<i>Plastic Water tank</i>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>					
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
<u>Plinths</u>					
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
Total to collection					-
Total collection below					
Brought forward from page:2/1					-
From above					-
TOTAL CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
Total for Super structure carried to summary				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	standard steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u>				
	<u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to</u>				
F	50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY		
TOTAL FOR ELEMENT NO. 01 -(substructure)		-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
TOTAL FOR ELEMENT NO. 03 - (doors)		-
TOTAL FOR ELEMENT NO:04(windows)		-
TOTAL FOR ELEMENT NO. 05 - (finishes)		-
SUB TOTAL I	KSHS.	-
PROVISIONAL SUMS		
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding		
CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR SOUTH EAST WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address _____		
D	Signature & STAMP		
E	Date _____		
F	Witness name _____		
G	Address _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>WEST ALEGO WARD</u> <u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	120		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	60		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	60		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	<u>Carried to Summary</u>				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 11/4 standard 3m pipe	LM	90		-
D	Dayliff 11/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch O315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<i>Plastic Water tank</i>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
	<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>				
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
	<u>Plinths</u>				
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
	Total to collection				-
	Total collection below				
	Brought forward from page:2/1				-
	From above				-
	TOTAL CARRIED TO SUMMARY			Ksh	<u><u>-</u></u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	Paintwork steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u>				
	<u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to 50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber</u>				
F	rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY		
TOTAL FOR ELEMENT NO. 01 -(substructure)		-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
TOTAL FOR ELEMENT NO. 03 - (doors)		-
TOTAL FOR ELEMENT NO:04(windows)		-
TOTAL FOR ELEMENT NO. 05 - (finishes)		-
SUB TOTAL I	KSHS.	-
PROVISIONAL SUMS		
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding		
CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR WEST ALEGO WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address_____		
D	Signature & STAMP		
E	Date_____		
F	Witness name_____		
G	Addrress_____		
H	Signature_____		
J	Date_____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>USONGA WARD</u>				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	120		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	60		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	60		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch 0315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<i>Plastic Water tank</i>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site	SM	7		-
	<u>Excavate in normal soil depth not exceeding 1500mm</u>				
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
	<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>				
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
	<u>Plinths</u>				
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
	Total to collection				-
	Total collection below				
	Brought forward from page:2/1				-
	From above				-
	TOTAL CARRIED TO SUMMARY			Ksh	<u><u>-</u></u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling: reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab <u>Sawn form work or equal and approved</u>	SM	7		-
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
	Total for Super structure carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	Paintwork steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	Flat Roof Finishes				
	Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to				
	50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY			
	TOTAL FOR ELEMENT NO. 01 -(substructure)		-
	TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
	TOTAL FOR ELEMENT NO. 03 - (doors)		-
	TOTAL FOR ELEMENT NO:04(windows)		-
	TOTAL FOR ELEMENT NO. 05 - (finishes)		-
	SUB TOTAL I KSHS.		-
PROVISIONAL SUMS			
	Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding		
	CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR SONGA WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address _____		
D	Signature & STAMP		
E	Date _____		
F	Witness name _____		
G	Address _____		
H	Signature _____		
J	Date _____		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>CENTRAL ALEGO WARD</u>				
	<u>BOREHOLE DRILLING AND EQUIPING</u>				
A	Underatke Hydrogeological study complete with provision of the hydrogeological report by approved hydrogeololist and obtaing all relevant permits from WRMA,NEMA and any other relevant authority.	Sum	1		-
B	Drilling unit, Equipment,Stores, Personnel, Materials and other required supplies to the site.	Sum	1		-
C	Erecting and dismantling of the whole drilling unit on site	sum	1		-
D	Drilling one borehole with a finished internal diameter of 152mm to the required maximum depths of 200m.	LM	120		-
	<u>Supply and installation of plain steel casings</u>				
E	supply and installation of 152mm diameter shutter slotted steel casings	LM	60		-
F	Supply and installation of 152 mm diameter Johnsons stainless steel screens	LM	60		-
G	Supply and installation of filter gravel pack 2 -4mm grain size	CM	30		-
H	Development including installation and removal of Development Equipment for atleast 10 hours	HR	24		-
I	Development by use of chemical method (calgon) as directed by the Engineer	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Grouting the upper aquifers unto depth of 60m with special waterproof cement and bentonite seal	Sum	1		-
B	prepare well head and cement palce of size 1.5m x mx1.0m	CM	4		-
C	supply of 152mm diameter borehole cap	NO	1		-
D	supply of water for drilling operations and camp use.	SUM	1		-
E	collect formation samples as specified at 2m intervals	NO.	76		-
F	Geological Logging	NO.	1		-
G	collect water samples for both chemical and bacteriological analysis and carry out both chemicals and bacteriological analysis and submission of same reports to the Engineer.	SUM	1		-
H	Removal borehole cuttings on completion and restoration of the to its original status etc	SUM	1		-
I	Waiting time	HR	48		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SUPPLY, DELIVER TO THE SITES AND TAKE A CUSTODY OF THE FOLLOWING ITEMS				
A	Pedrollo 4 sr 2/27 1.5 kw pump end	NO	1		-
B	Pedrollo 4 pdm/1.5 kw 1ph sub - motor	NO	1		-
C	Dayliff 1 1/4 standard 3m pipe	LM	90		-
D	Dayliff 1 1/4 Adaptor set	NO	1		-
E	4mm x 4 PVC flat submersible drop cable	LM	92		-
F	6mm 4 core underground cable	LM	45		-
G	1.5mm 2 core underground cable	LM	25		-
H	Accessory load switch O315/3 complete with 3m cable	NO	1		-
I	Water level switch	NO	1		-
J	Dayliff 4st 1000v/32 apv disconnect switch	NO	1		-
K	Dayliff sv2 2.2 kw 1ph sunverter	NO	1		-
L	Power controll sollatek avs 30A	NO	1		-
M	Dayliff 200w 24vdc crystalline solar module	NO	12		-
N	Solar panels frames and roof bolting	NO	12		-
O	Earthrod complete with clamp and lightning arrestors	NO	1		-
P	Dayliff mj dn32 multijet water meter	NO	1		-
Q	Pvc pipe 25 mm diameter	NO	15		-
R	Londex dual core cable	LM	95		-
S	Insattallation Sundries	Sum	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	supply materials and construct borehole protection chambers of dimensions 1775mm x 1775mm x 300mm D it shall be fabricated from Gs sheet of Minimum Thickness 2mm. Of Gs all weather proof pad lockable borehole protection cover. It shall have locking facilities and lifting handles at the opposite centres with 2 No. Rust proof Heavy duty padlock (Yale Union or viro) The cover shall be C/W its L shaped frame of size 50mm x 50mm x 3mmT	NO	1		-
B	Excavate water pipe trench of size 700mmWx 500mm D in normal soil, lay, connect DN 80 GI pipes, cover with 100mm thick of lightly back fill to the ground level, leaving joints exposed for leaks tests	LM	50		-
C	construct a masonry meter/valve chamber of internal dimensions 1250mmL X 1250MMWx 675mm D, provided with lockable facilities with 2 NO. rustproof heavy duty padlocks (union , Yale or viro type) The top level shall be 150mm above ground level and fitted the chequered metal top lid.	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEVATED WATER TANK</u>				
A	Excavate for stub column bases not exceeding 1.5m deep from ground level, including keeping excavations free of water	CM	4		-
B	Return, fill & ram in excavated material around foundations & cart away extra excavated material	CM	2		-
C	50mm thick blinding under column bases in class 15 1:3:6 mass concrete	CM	1		-
D	Reinforced concrete grade 25/20 for stub columns & Bases	CM	6		-
E	High yield steel reinforcement bars to BS 4449				
E	8mm dia bars	KG	150		-
F	12mm ditto	KG	200		-
G	16mm ditto	KG	900		-
	structural steel to BS 5950 including painting of 1 coat of grey oxide zinc chromate primer after fabrication prior to erection				
H	100 x 100 x 4 (12kg/m)SHS as structural columns	LM	30		-
I	100 x 50 x4(9kg/m) RHS as structural beams	LM	35		-
J	50 x 50 x 5mm (3.8 kg/m) Angle sections as bracing	LM	350		-
K	connections bolts, nuts and washers	KG	300		-
L	3mm thick plate (29 Kg/m) underneath the access around the tank	SM	10		-
	<i>Plastic Water tank</i>				
M	10,000 litres plastic water tank as roto, kentank or similar approved	NO	1		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pipes and fittings (PE electro Fusion Jointed)				
	Washout/Overflow				
A	50mm dia. Gi pipe (cut and joint fill)	LM	16		-
B	50mm x 90 gi bend	NO	4		-
C	50mm x 90 gi valve	NO	4		-
D	50mm gi equal tee	NO	4		-
E	32mm Dia. Butterfly valve	NO	4		-
F	Provide and install approved water level indicator	no	4		-
	Inlet and out let				
H	32 mm Dia. Pipe (cut and joint to fit)	LM	18		-
I	32mmx90 gi bend	NO	2		-
J	32mm Dia. Gi equal tee	NO	2		-
K	32mm Dia. Butterfly valve	NO	2		-
L	32mm Dia. Float valve	NO	2		-
	Carried to Summary				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	WATER KIOSK. ELEMENT NO. 01 SUB-STRUCTURES (ALL PROVISIONAL)				
A	Clear site of grass shrubs and small trees and dispose.	SM	21		-
B	Excavate to remove vegetable top soil average 150mm and remove away from site <u>Excavate in normal soil depth not exceeding 1500mm</u>	SM	7		-
C	From the stripped level to reduce levels.	CM	3		-
D	From the reduced level of foundation trenches.	CM	5		-
E	Return fill in and ram selected excavated material in foundations	CM	3		-
F	Load wheel and cart away surplus excavated material from site	CM	5		-
G	300mm thick approved hardcore laid and compacted in 100mm layers	CM	3		-
H	50mm thick approved murrum blinding to surface of hardcore.	SM	7		-
I	Extra over normal excavation for all rock.	CM	1		-
J	Vibrated reinforced concrete 1:1:5:3 in foundations	CM	2		-
K	150mm thick concrete 1:1:5:3 in floor bed.	SM	7		-
L	BRC No. A142 including bending and laps	SM	7		-
M	1000 gauge approved damp membrane laid with	SM	7		-
	Total to collection			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A.	Sawn formwork as described to edges of floor slab girth 75-150mm	LM	10		-
B	Treat surface of hardcore with approval insecticide to manufactures instructions	SM	7		-
	<u>3-ply black bituminous felt damp proof course laid with laps as instructed</u>				
C	200mm wide.	LM	9		-
D	200mm thick dressed natural stone foundation walling in cement sand 1:4 mortar reinforced with including hoop iron at alternate courses	SM	7		-
	<u>Plinths</u>				
E	15mm cement/sand render plinths	SM	7		-
F	Prepare apply 3 coats black bituminous paint to rendered plinths.	SM	7		-
	Total to collection				-
	Total collection below				
	Brought forward from page:2/1				-
	From above				-
	TOTAL CARRIED TO SUMMARY			Ksh	<u><u>-</u></u>

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>WALLING AND BEAMS</u>				
	<u>Selected fine dressed natural stone walling with a minimum of 7.0 N/mm² average compressive strength to B.S 5390; bedded and jointed in cement and sand (1:4) mortar to Architect's approval</u>				
A	150mm Thick walling; reinforced with 20 gauge hoop iron at alternate courses	SM	25		-
B	Extra over walling for pointing on masonry walling : horizontal recessed and flush vertical joints	SM	25		-
	<u>In situ concrete class 25 (20 mm aggregate): vibrated:reinforced: in</u>				
C	Beams	CM	1		-
D	150mm thick suspended slab	SM	7		-
	<u>Sawn form work or equal and approved</u>				
E	Soffits of suspended slab	SM	7		-
F	To sides of beams	SM	5		-
G	To soffittes of beams over openings	SM	1		-
	<u>High yield square twisted bars to B.S. 4461: including bends, hooks and tying wire: (Provisional)</u>				
H	12mm diameter	KG	126		-
I	10 mm diameter	KG	98		-
J	8mm diameter	KG	89		-
Total for Super structure carried to summary				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 04</u> <u>DOORS</u>				
A.	Paintwork steel casement door to Architects details overall size 900x2100 single leaf and in one coat metal primer complete with 5-lever mortise steel door lock and iron mongery	NO	1		-
B	4mm thick clear sheet glass bedded in steel putty	SM	1		-
C.	Touch up primer and prepare and apply three coats gloss oil paint to general metal surfaces	SM	4		-
D	Rubber door stop rawl bolted to floor.	NO	1		-
TOTAL FOR DOOR CARRIED TO SUMMARY				Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>WINDOWS</u>				
	<u>STEEL CASEMENT</u>				
	<u>Supply, assemble and fix:steel casement windows as Architects drawing: including fixing putty: plugged screwed to concrete or blockwork: including ironmongery and accessories to Architects schedule vented</u>				
A	Window size 1500 x 1200 mm	NO	2		-
B	5mm thick glass in panes 0.1-0.5 and with putty glazing tinted	SM	1		-
C	Touch up primer and prepare and apply three coats of gloss paint to metal surfaces	SM	2		-
D	275x100mm P.C window cill bedding in cement /sand (1:4) mortar	LM	3		-
	Carried to summary			Ksh	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 05</u>				
	<u>FINISHES</u>				
	<u>FLOOR</u>				
A.	40mm thick cement/sand (1:2) screed	SM	7		-
	<u>WALL FINISHES</u>				
	<u>Cement and sand (1:4) externally:</u>				
B	15 mm Plaster applied externally in two coats: wood floated to exposed beams	SM	3		-
	<u>INTERNAL LIME PLASTER: first coat of cement lime and sand (1:2:9) second coat of cement,lime and sand (1:1:6) steel trowelled smooth</u>				
C	15 mm Thick two coat plaster to walls: internally	SM	25		-
	<u>Prepare and apply one mist coat and three coats of prime grade Silk Vinyl Emulsion paint internally on.</u>				
D	Plastered surfaces	SM	25		-
	<u>Prepare and apply one undercoat and two coats of first grade weather resistant gloss oil paint</u>				
E	Rendered surfaces	SM	3		-
	<u>Flat Roof Finishes</u>				
	<u>Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to</u>				
F	50mm (Average) roots : to falls and cross falls: finished to receive EPDM rubber	SM	6		-
G	EPDM rubberLaid as directed on site	SM	6		-
	TOTAL FOR FINISHES CARRIED TO SUMMARY			Ksh	-

SUMMARY		
TOTAL FOR ELEMENT NO. 01 -(substructure)		-
TOTAL FOR ELEMENT NO. 02 - (walling/beams including roof slab		-
TOTAL FOR ELEMENT NO. 03 - (doors)		-
TOTAL FOR ELEMENT NO:04(windows)		-
TOTAL FOR ELEMENT NO. 05 - (finishes)		-
SUB TOTAL I	KSHS.	-
PROVISIONAL SUMS		
Allow for installation of 5000 litres ROTO tank including all plumbing works and tank protection in steel balustarding		
CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL SUMS				
A	Allow Fifty thousand kenya shilling project management commette	Sum	1		-
B	Allow Thirty thousand kenya shillings for project supervision	Sum	1		-
C	Allow asum of One hundred thousand kenya shilling for contigencies	Sum	1		-
	Carried to Collection				-

ITEM	DESCRIPTION	FOR OFFICIAL	FOR CONTRACTORS USE
	GRAND SUMMARY	Ksh	Ksh
	From page: 01		-
	From page: 02		-
	From page: 03		-
	From page: 04		-
	From page: 05		-
	From page: 06		-
	Water kiosk		-
	Provisional sums		-
			-
	TOTAL FOR CENTRAL ALEGO WARD	Ksh	-
A	Amount in words kenya shillings:		
B	Tenderers name		
C	Address_____		
D	Signature & STAMP		
E	Date_____		
F	Witness name_____		
G	Addrress_____		
H	Signature_____		
J	Date_____		

	SUMMARY	SUM	NO	AMOUNT
	BONDO CONSTITUENCY	-		-
1	SOUTH SAKWA		1	-
2	WEST SAKWA	-	1	-
3	NORTH SAKWA		1	-
4	CENTRAL SAKWA	-	1	-
5	YIMBO EAST		1	-
6	YIMBOWEST	-	1	-
	RARIADA SUB COUNTY	-		-
1	WEST UYOMA		1	-
2	NORTH UYOMA	-	1	-
3	SOUTH UYOMA		1	
4	EAST ASEMBO		1	
5	WEST ASEMBO		1	-
	GEM SUBCOUNTY			
1	WEST GEM		1	-
2	EAST GEM		1	
3	NORTH GEM		1	
4	CENTRAL GEM		1	
5	SOUTH GEM		1	
6	YALA TOWNSHIP		1	
	UGENYA SUBCOUNTY			
1	WEST UGENYA		1	
2	EAST UGENYA		1	
3	UKWALA		1	
4	NORTH UGENYA		1	
	UGUNJA SUBCOUNTY			
1	UGUNJA		1	
2	SIDINDI		1	
3	SIGOMERE		1	
	ALEGO USONGA SUBCOUNTY			
1	SIAYA TOWNSHIP		1	
2	WEST ALEGO		1	
3	NORTH ALEGO		1	
4	SOUTH EAST ALEGO		1	
5	USONGA		1	
6	CENTRAL ALEGO		1	
	SUB TOTAL			
	ADD 14% VAT			
	GRAND TOTAL			-