

# **TEACHERS SERVICE COMMISSION**



## **TENDER DOCUMENT FOR PROCUREMENT FOR SERVICES**

### **INSTALLATION OF WATER PURIFICATION / REVERSE OSMOSIS UNIT**

**TSC/T/039/2017-2018**

Teachers Service Commission  
Upper Hill, Kilimanjaro Road,  
Private Bag, 00100  
Nairobi

Email: [info@tsc.co.ke](mailto:info@tsc.co.ke)

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**PROCURING ENTITY      PROJECT ENGINEER**

**SECRETARY / CHIEF EXECUTIVE SERVICES,**

**TEACHERS SERVICE COMMISSION**

**PRIVATE BAG – 00100**

**NAIROBI, KENYA. NAIROBI.**

**DIRECTOR WATER**

**MINISTRY OF WATER  
AND IRRIGATION**

**P.O. Box 49720 – 00100**

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## **NOTES**

1. Transactions regarding the sample forms shall be carried out between the Procuring entity and the firm awarded the contract.
2. The whole document should be read and understood before quoting.
3. Read both sides of the paper.
4. Bidders should make their own arrangements at their own cost to visit the site and familiarize themselves with the site conditions before quoting. No excuse will be allowed for mistakes made due to not visiting the site.
5. Appendix to Instructions to Bidders, Appendix to Conditions of Contract, bills of quantities, bid forms etc must be filled and signed.

# SECTION 1

## INVITATION TO TENDER FOR PROVISION OF INSTALLATION OF WATER PURIFICATION / REVERSE OSMOSIS UNIT TSC/T/039/2017-2018

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- 1.1. The Teachers Service Commission invites sealed bids from eligible candidates for the provision of Installation of water Purification /Reverse osmosis Unit.
- 1.2. Interested eligible candidates may obtain further information and inspect the tender documents at **Teachers Service Commission House Kilimanjaro Road Upper Hill, 2<sup>nd</sup> Floor Podium Wing during normal working hours.**
- 1.3 You may obtain further information, inspect and obtain tender documents at the Procurement office, Teachers Service Commission House, 2<sup>nd</sup> Floor, Podium Wing. A complete hard copy tender document may be obtained by interested candidates upon payment of a non-refundable fee of **Kshs.1,000.00** in cash or bankers cheque payable to **The Secretary, Teachers Service Commission**; and attach a copy of receipt to the Tender Document. Alternatively, the document may be downloaded for free from the TSC websites: [www.tsc.go.ke/](http://www.tsc.go.ke/)
- 1.4 Completed tender documents are to be enclosed in plain sealed envelopes, marked with the tender number and tender name and be deposited in the tender box provided at the **TSC House, Podium wing, Main Reception Ground floor**, or be addressed and posted to **The Secretary, Teachers Service Commission, Private Bag - 00100, Nairobi** to be received on or before **6<sup>th</sup>February,2018 at 11.00am.**
- 1.5 Tenders will be opened immediately thereafter in the presence of the tenderers or their representatives who choose to attend the opening at **Teachers Service Commission House, 3<sup>rd</sup> Floor Podium.**

**NANCY NJERI MACHARIA, OGW**  
**COMMISSION SECRETARY**

## SECTION 2

### LOCATION OF THE PROJECT AREA, THE SCOPE OF WORK

#### 1.1 LOCATION OF THE PROJECT AREA

The Teachers Service Commission is located along Kilimanjaro Road – Upper Hill.

#### 1.2 BOREHOLE DATA BOREHOLE No C – 15242

- *Tested yield = 10.28 m<sup>3</sup>/hr*
- *Recommended yield = 7.2 m<sup>3</sup>/hr*
- *Static water level = 173.35 m*
- *Dynamic water level = 190.3 m*
- *Maximum drawdown = 16.95 m*
- *Borehole Total Depth = 300 m*
- *Casing Diameter = 152 mm*
- *Pump intake depth = 273.00 m*

#### 1.3 SCOPE OF WORK

The scope of works shall include but not limited to;

- a). Installation of 1 No unit – Water purification / Reverse osmosis unit to accommodate purification of 22000 liters per day (3 m<sup>3</sup>/hr)
- b). Construction of plinth for the installation of water purification / reverse osmosis unit
- c). Installation and interconnection of GI pipes between the water purification / reverse osmosis unit and the basement tank to facilitate use of the same in the existing reticulation system.
- d). erection of masonry wall around the basement tank area to accommodate installation of water purification unit.
- h). Maintenance of the system for a period of Ninety (90) days.

## SECTION 3

## FORM OF BID

**TO:** The Secretary / Chief Executive,  
Teachers Service Commission  
Private Bag - 00100,  
**NAIROBI, KENYA.**

**BID No.:** .....

In accordance with the Instructions to Bidders, Conditions of Contract, Specifications, Bills of Quantities and Drawings 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]**

1. We undertake, if our tender is accepted, to commence the Works not later than Fourteen (14) Days from the date specified in the Project Manager's notice to commence, and to complete the whole of the Works comprised in the Contract within the time specified in the Appendix to Conditions of Contract.
2. We acknowledge that the Appendix to Form of Bid forms part of our bid.
3. We agree to abide by this bid **for a period of 120 days from the date of tender opening**, and shall remain binding upon us and may be accepted at any time before the expiry of that period.
4. Unless and until a formal Agreement is prepared and executed, this bid 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 bid You may receive.

.....

<b>SIGNATURE</b>	<b>[RUBBER STAMP]</b>	<b>DATE</b>
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**PIN NO..... VAT CERTIFICATE NO.....**

**Witness;**

**Name** ..... **Address** .....

**Signature.....**                      **Date.....**

# SECTION 4

## **INSTRUCTIONS TO BIDDERS**

**Note:** The bidder must comply with the following conditions and instructions. Failure to do so will result in rejection of the bid.

### **1. GENERAL**

#### **DEFINITIONS**

- (a). **“Bidder”** means any person or persons, partnership firm or company submitting a sum or sums in the Bills of Quantities in accordance with the Instructions to Bidders, 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 Bidder”** means the bidder who is approved by the Procuring entity.
- (c). Any noun or adjective derived from the word **“bid”** shall be read and construed to mean the corresponding form of the noun or adjective **“bidder”**. Any conjugation of the verb **“bidder”** shall be read and construed to mean the corresponding form of the verb **“bid”**
- (d). **“Procuring entity”** means a Central Government Ministry, Local Authority, State Corporation or any other Public Institution.

### **2. ELIGIBILITY AND QUALIFICATION REQUIREMENTS**

- 2.1. This invitation to bid is open to all bidders who have been pre-qualified.
- 2.2. The bidder shall be required to provide the following information;
  - (a). The qualifications and experience of key personnel proposed for administration and execution of the Contract, both on site and off site.
  - (b). 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 bidder 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.
  - (c). Details of sub-contractors to whom it is proposed to sublet any portion of the of the Contract and for whom authority will be requested for such subletting in accordance with clause 4 of Conditions of Contract Part I (FIDIC).of the Conditions of Contract Part II.
  - (d). Program of Works in the form of a bar chart and Schedule of Payment 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.
  - (e). Details of any current litigation or arbitration proceedings in which the bidder is involved as one of the parties.

## **2.3 JOINT VENTURES**

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

- (a). The bid, and in case of a successful bid, 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 and 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 Bid and the Form of Agreement (in case of a successful bidder).
- (e). A copy of the agreement entered into by the joint venture partners shall be submitted with the bid.

## **3. COST OF BIDDING**

The bidder shall bear all costs associated with the preparation and submission of his bid and the Procuring entity will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

## **4. PRE-BID SITE VISIT**

- 4.1** The bidder 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 bid and entering into a contract. The costs of visiting the Site shall be the bidder's own responsibility.
- 4.2** The bidder and any of his personnel or agents will be granted permission by the Procuring entity to enter upon premises and lands for the purpose of such inspection, but  
only upon the express condition that the bidder his personnel or agents, will relieve and indemnify the Procuring entity 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.
- 4.4** Each bidder shall complete the Certificate of Bidder's site visit, whether he in fact visits the site or not.



## **BID DOCUMENTS**

### **5 BID DOCUMENTS**

- 5.1** The bid 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 bidders.
- a. Form of Invitation to Bidders and Form of Bid
  - b. Instructions to Bidders and Appendix to Instructions to Bidders.
  - c. General Conditions of Contract – Part I
  - d. Conditions of Particular application – Part II
  - e. Appendix to Conditions of Contract
  - f. Specifications, Bills of Quantities Equipment / Items Technical Data
  - h. Bid and Confidential Business Questionnaires
  - i. Schedules of Supplementary Information and Sketch Drawings.
- 5.2** The bidder is expected to examine carefully all instructions, conditions, forms, terms, specifications and drawings in the bid documents. Failure to comply with the requirements for bid submission will be at the bidder's own risk. Pursuant to clause 23 of Instructions to Bidders, bids 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 bid whether they submit a bid or not) shall treat the details of the documents as "private and confidential".

### **6. CLARIFICATION OF BID DOCUMENTS**

- 6.1** A prospective bidder requiring any clarification of the bid documents may notify the Procuring entity in writing or by telex, cable or facsimile at the Procuring entity's mailing address indicated in the Invitation to Bid. The Procuring entity will respond in writing to any request for clarification which he receives earlier than five (5) days prior to the deadline for the submission of bids. Written copies of the Procuring entity's response (including the query but without identifying the source of the inquiry) will be sent to all prospective bidders who were invited to bid.

### **7. AMENDMENT OF BID DOCUMENTS**

- 7.1** At any time prior to the deadline for submission of tenders the Procuring entity may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective bidder, modify the tender documents by issuing addendum.
- 7.2** Any addendum will be notified in writing or by cable, telex or facsimile to all prospective bidders and will be binding upon them.
- 7.3** If during the period of bidding, any circular letters (bid notices) shall be issued to bidders by, or on behalf of, the Procuring entity setting forth the interpretation to be placed on a part of the bid documents or to make any change in them, such circular letters will form part of the bid documents and it will be assumed that the bidder has taken account of them in preparing his bid. The bidder must promptly acknowledge (in writing or by cable to the Procuring entity) any circular letters he may receive.

- 7.4 In order to allow prospective bidders reasonable time in which to take the Addendum into account in preparing their bids, the Procuring entity may, at his discretion, extend the deadline for the submission of bids.

## **PREPARATION OF BIDS**

### **8. LANGUAGE OF BID**

- 8.1 The bid and all correspondence and documents relating to the bid exchanged between the bidder and the Procuring entity shall be written in the English language. Supporting documents and printed literature furnished by the bidder with the bid 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 bid, the English language shall prevail.

### **9. DOCUMENTS COMPRISING THE BID**

- 9.1 The bid to be prepared by the bidder shall comprise: The Form of Bid and Appendix thereto, the Priced Bills of Quantities, Schedules, the Drawings the information on eligibility and qualification, and any other materials required to be completed and submitted in accordance with the Instructions to Bidders embodied in these bid documents and clause 5.1. The Forms, Bills of Quantities and Schedules provided in the bid 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 Bid Surety].

### **10. BID PRICES**

- 10.1 All the insertions made by the bidder shall be made in INK and the bidder shall clearly form the figures. The relevant space in the Form of Bid and Bills of Quantities shall be completed accordingly without interlineations or erasures except those necessary to correct errors made by the bidder in which case the erasures and interlineations shall be initialed by the person or persons signing the bid.
- 10.2 A price or rate shall be inserted by the bidder for every item in the Bills of Quantities whether the
- 10.3 Quantities are stated or not. Items against which no rate or price is entered by the bidder will not be paid for by the Procuring entity when executed and shall be deemed covered by the rates for other items and prices in the Bills of Quantities
- 10.4 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 bid is based. All duties, taxes and other levies payable by the Contractor under the Contract or for any other cause as of the date 28 days prior to the deadline for submission of bids, shall be included in the rates and prices and the total Bid Price submitted by the bidder.
- 10.4 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 bidder is advised against inserting a price or rate against any item contrary to this instruction.
- 10.5 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 Procuring entity 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 bidder and it is the intention of the Procuring entity to take full advantage of unbalanced low rates.

- 10.6** Unless otherwise specified the bidder 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 bid amount.
- 10.7** The bidder shall furnish with his bid written confirmation from his suppliers or manufacturers of basic unit rates for the supply of items listed in the Conditions of Contract Part II clause 25 where appropriate. The Procuring entity may require the bidder to justify such rates so obtained from the suppliers or manufacturers.
- 10.8** The rates and prices quoted by the bidder are subject to adjustment during the performance of the Contract only in accordance with the provisions of the Conditions of Contract. The bidder shall complete the schedule of basic rates and shall submit with his tender such other supporting information as required under clause 25 of the Conditions of Contract Part II.

## **11. CURRENCIES OF BID AND PAYMENT**

- 11.1** Bids shall be priced in Kenya Shillings and the bid sum shall be in Kenya Shillings
- 11.2** Bidders are required to indicate in the Statement of Foreign Currency requirements, which form part of the tender, the foreign currency required by them. Such currency should generally be the currency of the country of the bidder's main office. However, if a substantial portion of the bidder'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 rates of exchange used for pricing the bid shall be selling rate or rates of the Central Bank ruling on the date thirty (30) days before the final date for the submission of bids.
- 11.4** Bidders must enclose with their bids, a brief justification of the foreign currency requirements stated in their bids.

## **12. BID VALIDITY**

- 12.1** The bid shall remain valid and open for acceptance for a period of Ninety (90) days from the specified date of bid opening or from the extended date of bid opening (in accordance with clause 7.4 here above) whichever is the later.
- 12.2** In exceptional circumstances prior to expiry of the original bid validity period, the Procuring entity may request the bidder 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 bidder may refuse the request without forfeiting his Bid Surety. A bidder agreeing to the request will not be required nor permitted to modify his tender, but will be required to extend the validity of his Bid Surety correspondingly.

### **13. BID SECURITY**

- 13.1** The bidder shall furnish as part of his bid, a Bid Surety in the amount stated in the Appendix to Instructions to Bidders.
- 13.2** The unconditional Bid Surety shall be in Kenya Shillings and be in form of a certified cheque, a bank draft, an irrevocable letter of credit or a guarantee from a reputable Bank approved by the procuring entity located in the Republic of Kenya.
- 13.3** The format of the Surety shall be in accordance with the sample form of Bid Surety included in these bid documents. Other formats may be permitted Subject to the prior approval of the procuring entity. The Bid Surety shall be valid for twenty eight (28) days beyond the Bid validity period.
- 13.4** Any bid not accompanied by an acceptable Bid Surety will be rejected by the Procuring entity as non-responsive.
- 13.5** The Bid Sureties of unsuccessful bidders will be returned as promptly as possible but not later than twenty eight (28) days after both parties signing the Contract Agreement and after a Performance Security has been furnished by the successful bidder. The Tender Surety of the successful bidder will be returned upon the bidder executing the Contract Agreement and furnishing the required Performance Security.
- 13.6** The Bid Surety may be forfeited:
- (a). If a bidder withdraws his bid during the period of bid validity **OR**
  - (b). In the case of a successful bidder, if he fails, within the specified time limit;
    - (i). to sign the Contract Agreement, **OR**
    - (ii). to furnish the necessary Performance Security.
  - (c). If a bidder does not accept the correction of his tender price pursuant to clause 24.

### **14. NO ALTERNATIVE OFFERS**

- 14.1** The bidder shall submit an offer which complies fully with the requirements of the bid documents.
- 14.2** Only one bid may be submitted by each bidder either by himself or as partner in a joint venture. A bidder who submits or participates in more than one bid will be disqualified.
- 14.3** The bidder shall not attach any conditions of his own to his tender. The bid price must be based on the bid documents. The bidder 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 bidder notices, if any, for the calculation of his bid price.
- Any bidder who fails to comply with this clause will be disqualified.

### **15 PRE – BID MEETING**

- 15.1** The bidder's designated representative is invited to attend a pre-bid meeting, which if convened, will take place at the venue and time in the Invitation to Bid. 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 bidder is requested as far as possible to submit any questions in writing or by

cable, to reach the Procuring entity not later than five (5) 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 bidders who were invited to bid. Any modification of the bid documents listed in – Clause 9 which may become necessary as a result of the pre- bid meeting shall be made by the Procuring entity exclusively through the issue of a bid notice pursuant to Clause 7 and not through the minutes of the pre- bid meeting.
- (b). Non- attendance at the pre-tender meeting will not be cause for disqualification of a bid.

## **16 FORMAT FOR SIGNING OF BIDS**

- 16.1 The bidder 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 bid 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 bidder. Proof of authorization shall be furnished in the form of the written power of attorney which shall accompany the bid. All pages of the bid where amendments have been made shall be initialed by the person or persons signing the bid.
- 16.3 The complete bid shall be without alterations, interlineations or erasures, except as necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person or persons signing the bid.

## **SUBMISSION OF BIDS**

## **17 SEALING AND MARKING OF BIDS**

- 17.1 The bidder shall seal the original and copy of the bid 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 Procuring entity at the address stated in the Appendix to Instructions to Bidders 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 bids stated in the said Appendix.
- 17.3 The inner envelopes shall each be indicated the name and address of the bidder to enable the bid to be returned unopened in case it is declared “late”, while the outer envelope shall bear no mark indicating the identity of the bidder.
- 17.4 If the outer envelope is not sealed and marked as instructed above, the Procuring entity will assume no responsibility for the misplacement or premature opening of the bid. A bid opened prematurely for this cause will be rejected by the Procuring entity and returned to the bidder.

## **18 DEADLINE FOR SUBMISSION OF BIDS**

- 18.1 Bids must be received by the Procuring entity 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. Bids delivered by hand must be placed in the “Quotation box”, as stated in the “Form of Invitation to Bid” provided in the office of the Procuring entity. Proof of posting will not be accepted as proof of delivery and any bid delivered after the above stipulated time, from whatever cause arising will not be considered.

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

**18.3** Any bid received by the Procuring entity after the prescribed deadline for submission of bid will be returned unopened to the bidder.

## **19 MODIFICATION AND WITHDRAWAL OF BIDS**

**19.1** The bidder may modify or withdraw his bid after bid submission, provided that written notice of the modification or withdrawal is received by the Procuring entity prior to prescribed deadline for submission of bids.

**19.2** The bidder’s modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions for the submission of bids, with the inner and outer envelopes additionally marked “**MODIFICATION**” or “**WITHDRAWAL**” as appropriate.

**19.3** No bid may be modified subsequent to the deadline for submission of bids.

**19.4** No bid may be withdrawn in the interval between the deadline for submission of bids and the period of bid validity specified on the bid form. Withdrawal of a bid during this interval will result in the forfeiture of the Bid Surety.

**19.5** Subsequent to the expiration of the period of bid validity prescribed by the Procuring entity, and the bidder having not been notified by the Procuring entity of the award of the Contract or the bidder does not intend to conform with the request of the Procuring entity to extend the tender validity, the bidder may withdraw his bid without risk of forfeiture of the Bid Surety.

## **20 BID OPENING**

**20.1** The Procuring entity will open the bids in the presence of the bidders’ representatives who choose to attend at the time and location indicated in the Letter of Invitation to Bidders. The bidders’ representatives who are present shall sign a register evidencing their attendance.

**20.2** Bids for which an acceptable notice of withdrawal has been submitted, pursuant to clause 19, will not be opened. The Procuring entity will examine the bids to determine whether they are complete, whether the requisite Bid Sureties have been furnished, whether the documents have been properly signed and whether the bids are generally in order.

**20.3** At the bid opening, the Procuring entity will announce the bidder’s names, total bid price, bid price modifications and bid withdrawals, if any, the presence of the requisite Bid Surety and such other details as the Procuring entity, at his discretion, may consider appropriate. No bid shall be rejected at the bid opening except for late bids.

- 20.4** The Procuring entity shall prepare minutes of the bid opening including the information disclosed to those present.
- 20.5** Bids not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances.

## **21 PROCESS TO BE CONFIDENTIAL**

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

## **22. CLARIFICATION OF BIDS**

- 22.1** To assist in the examination, evaluation and comparison of bids, the Procuring entity may ask bidders individually for clarification of their bids, 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 bid shall be sought, offered or permitted except as required to confirm the correction of arithmetical errors discovered by the procuring entity during the evaluation of the bids in accordance with clause 24.
- 22.2** No bidder shall contact the Procuring entity on any matter relating to his bid from the time of the bid opening to the time the Contract is awarded. If the bidder wishes to bring additional information to the notice of the Procuring entity, he shall do so in writing.

## **22 DETERMINATION OF RESPONSIVENESS**

- 23.1** Prior to the detailed evaluation of bids the Procuring entity will determine whether each bid is substantially responsive to the requirements of the bid documents.
- 23.2** For the purpose of this clause, a substantially responsive bid is one which conforms to all the terms, conditions and specifications of the bid documents without material deviation or reservation and has a valid Bid Surety Bank Guarantee. 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 bidder under the Contract, or which limits in any substantial way, inconsistent with the bid documents, the Procuring entity's rights or the bidder's obligations under the Contract and the rectification of which would affect unfairly the competitive position of other bidders who have presented substantially responsive bids.
- 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 bid be seriously unbalanced in relation to the Procuring entity's estimate of the works to be performed under any item or groups of items, the bid shall be deemed not responsive.
- 23.4** A bid determined to be not substantially responsive will be rejected by the Procuring entity and may not subsequently be made responsive by the bidder by correction of the non-conforming deviation or reservation.

## **24. CORRECTION OF ERROR**

Bids determined to be substantially responsive shall be checked by the Procuring entity for any arithmetic errors in the computations and summations. Errors will be corrected by the Procuring entity 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 Procuring entity, 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 bid amount as stated in the Form of Bid and the corrected bid figure in the main summary of the Bills of Quantities, the amount as stated in the Form of Bid shall prevail.
- (d). The Error Correction Factor shall be computed by expressing the difference between the bid amount and the corrected bid sum as a percentage of the corrected contracts works (i.e. corrected bid sum less P.C. and Provisional Sums).
- (e). The Error Correction Factor shall be applied to all contract works (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 bid will be adjusted in accordance with the above procedure for the correction of errors and, with concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the corrected amount, the bid may be rejected and the Bid Security may be forfeited in accordance with clause 13.

## **25 CONVERSION OF SINGLE CURRENCY**

- 25.1** For compensation of bids, the bid 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 eight (28) days before the final date for the submission of bids
- 25.2** The Procuring entity will convert the amounts in various currencies in which the bid is payable (excluding provisional sums but including Day works where priced competitively) to Kenya Shillings at the selling rates stated in clause 25.1.

## **26. EVALUATION AND COMPARISON OF BIDS**

- 26.1** The Procuring entity will evaluate only bids determined to be substantially responsive to the requirements of the bid documents in accordance with clause 23.
- 26.2** In evaluating bids, the Procuring entity will determine for each bid the evaluated bid price by adjusting the bid 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 work where priced competitively.
- 26.3** The Procuring entity 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 bid documents or otherwise result in the accrual of unsolicited benefits to the Procuring entity, shall not be taken into account in bid 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 bid evaluation.
- 26.5** If the lowest evaluated bid is seriously unbalanced or front loaded in relation to the Procuring entity's estimate of the items of work to be performed under the contract, the Procuring entity may require the bidder 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 Procuring entity may require that the amount of the Performance Security set forth in clause 29 be increased at the expense of the successful bidder to a level sufficient to protect the Procuring entity against financial loss in the event of subsequent default of the successful bidder 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 EVALUATION CRITERIA**

In carrying out the evaluation, the following factors will be considered;

- [a] Performance of the equipment and machinery.
- [b] Quality of the equipment and machinery.
- [c] Capacity and experience of the bidder.
- [d] The contract sum
- [e] The project completion period.
- Please ref. Evaluation Criteria at APPENDIX "X".

## **AWARD OF CONTRACT**

- 27.1** Subject to Sub-clause 27.2, the Procuring entity will award the Contract to the bidder whose bid is determined to be substantially responsive to the bid documents and who has offered the lowest evaluated bid 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 here above.
- 27.2** The Procuring entity reserves the right to accept or reject any bid, annul the bidding process and reject all bids, at any time prior to award of Contract, without there by incurring any liability to the affected bidders or any obligation to inform the affected bidders of the grounds for the Procuring entity's action

## **28. NOTIFICATION OF AWARD**

- 28.1** Prior to the expiration of the period of bid validity prescribed by the Procuring entity, the Procuring entity will notify the successful bidder by cable, tele-fax or telex and confirmed in writing by registered letter that his bid 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 Procuring entity will pay to the Contractor in consideration of the execution and completion of the Works as prescribed by the Contract.

**28.2** Notification of award will constitute the formation of the Contract.

**28.3** Upon the furnishing of a Performance Security by the successful bidder, the unsuccessful bidders will promptly be notified by the Procuring entity in writing or by cable that their bids have been unsuccessful.

**28.4** Within Twenty one [21] days of receipt of the Form of Contract Agreement from the Procuring entity, the successful bidder shall sign the Form of Contract Agreement and return it to the Procuring entity together with the required Performance Security

## **26 PERFORMANCE GUARANTEE**

**29.1** Within Twenty Eight [28] days of receipt of the notification of award from the Procuring entity, the successful bidder shall furnish the Procuring entity with a Performance Security in the amount stated in the Appendix to Instructions to Bidders and in the format stipulated in the Conditions of Contract.

**29.2** The Performance Security to be provided by the successful bidder shall be an unconditional Bank Guarantee issued at the bidder’s option by a reputable Bank approved by the Procuring entity 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 70 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 requirement

**29.3** Failure of the successful bidder to submit the required Performance Security shall constitute a breach of Contract and sufficient grounds for the annulment of the award and forfeiture of the Bid Security and any other remedy under the Contract. The Procuring entity may award the Contract to the next ranked bidder.

## **30.0 TERMS OF PAYMENT**

### **30.1. ADVANCE PAYMENT**

An advance payment, **if approved** by the Procuring entity, shall be made under the Contract, if requested by the Contractor, in accordance with clause 23.7 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 Procuring entity.

## **30.2 CORRUPT AND FRAUDULENT PRACTICES**

Any efforts by the bidder to influence the procurement entity in its decision on bid evaluation, bid comparison or contract award will result in the rejection of the bidder's offer. The procurement entity therefore requires that bidders observe the highest standards of ethics during the procurement process and execution of the contract. In pursuance of policy, the procurement entity;

(a). Defines, for the purposes of this provision, the terms set forth below as follows:

(i). **“Corrupt practice”** means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

(ii). **“Fraudulent practice”** means a misrepresentation of facts in order to influence a procurement process or execution of a contract to the detriment of the procurement entity and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the procurement entity of the benefits of free and open competition.

(b). Will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.

(c). Will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded any contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing or in executing a contract.

## **SECTION 5**

### **CONDITIONS OF CONTRACT**

#### **I. 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 bidders. 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 Conditions of Contract.
- 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

#### **II. 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. DESCRIPTION**

## **DEFINITIONS AND INTERPRITATIONS**

In this contract document, except where the context otherwise requires, the following terms and expressions shall have the following meanings:

- 1.1 (a) (i) “Procuring entity”**  
Secretary / Chief Executive  
Teachers Service Commission  
Private Bag - 00100,  
**Nairobi, Kenya.**
- (ii) “Project Manager” or “Engineer”** Director Water Services,  
Ministry of Water and Irrigation  
P.O. BOX 49720-00100  
**Nairobi.**
- (iii) “Procuring entity’s Representative”** This shall mean the **Project Manager** and shall be : **The Director Water services,**
- b (i)**Insert in line 2 after “ the bills of quantities”, the following words “ the rates entered by the Contractor (whether or not such rate employed in computation of the Contract Price)”.

### **Project Manager’s Duties and Authority**

- 2.1 (b).** The Project Manager shall obtain specific approval of the Procuring entity 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 Project Manager.
  - (v). Fixing rates or prices under clause 52

## **CONTRACT DOCUMENTS**

- 5.1 (a)** The language governing this Contract shall be English. Communication between the Contractor and Project Manager or Project Manager’s Representative shall be in English.
- 5.1 (b)** The Contract shall in all respects be construed in accordance with and subject to the Laws of Kenya.

## **GENERAL OBLIGATIONS**

## **8.1 CONTRACTOR'S GENERAL RESPONSIBILITIES**

The Contractor shall with due care and diligence execute and complete the Works and remedy any defects therein in accordance with the provisions of the contract”.

### **14.1 PROGRAMME TO BE SUBMITTED**

The Contractor shall submit to the Project Manager for approval within Three (3) days after receiving the Project Manager’s Letter to Commence Work, **4 copies** of a detailed Works Program. The work program shall be arranged in the form of a Time-Bar chart OR schedule failure to which clause 14.1 shall be invoked, the Project Manager shall **with-hold certification** of any payment until when the program or revision thereof is submitted.

### **36.1 QUALITY OF MATERIALS, PLANT/EQUIPMENT AND WORKMANSHIP**

All materials, equipment, etc to be used in the execution of the work by the Contractor in this contract shall conform to the requirements of the latest Kenya Bureau of Standard (KEBS), International Standards Organization (ISO), British Standards Specifications (BSS), or other approved standards applicable in Kenya unless otherwise specifically stated”. The materials and workmanship shall be of the best of their respective and shall be to the approval of the Project Manager. Should any material/equipment which are in the judgment of the Project Manager unsound, or of inferior quality or in any way unsuited for the works in which it is proposed for use, such material/equipment shall not be used upon the works and shall forthwith be removed from the site and replaced with the proper quality items to the approval of the Project Manager **all at the expense of the contractor**. The contractor shall remove and reconstruct **at his own expense** any portion of the works which gives evidence of any defects or injury which may affect the strength of durability of the works or the performance of the system.

### **48.1 TAKE OVER OF THE WORKS**

The contract work shall be considered satisfactorily complete and ready for handing over to the Procuring entity only when the contract work and supporting services have been tested and operational to the satisfaction of the Project Manager.

#### **SITE MEETINGS**

Site meetings shall be held every after Four (4) days to discuss the progress of work etc. The meetings may also be called at any other time at the request of the Contractor, Client or as directed by the Project Manager.

The attendance shall comprise of but not limited to:

1. *The Procuring entity ..... 2 people*
2. *The Project Manager / Engineer ..... 2 people - chairperson*
3. *Resident Engineer..... 1 person - take minutes*
4. *The Contractor..... 2 people*

## **APPENDIX TO CONDITIONS OF CONTRACT PART II**

### **CLAUSE No. CONDITION OF CONTRACT**

**10, 60** Performance Security: **10% of the Contract Sum.**

**14.1** Work Program: **The Contractor shall submit work program for the works within seven (7) days of the delivery of the Letter of Acceptance**

**14.2** The amount to be withheld for late **1.0% of the certified amount to be submission of an updated program paid to the Contractor**

**23** The minimum Third Party insurance: **Kshs 2,000,000.00**

**43.1** Project Completion Period: **\*..... Days (Bidder to insert).**

**47.1** Liquidated and Ascertained Damages: **0.01% of the Contract sum each Day**

**49.1** Defects Liability Period: **90 days.**

#### **60. Certificates and Payments;**

**60.1** Advance Payment: **No advance payment shall be granted**

**60.2** The interim payments shall be made in phases for the measured works to the **satisfaction of the Project Manager**, less 16 % tax and 10% retention money.

**60.3** Payment of Retention Money

**(a). (5% retention money) shall be released at the end of the Defects Liability Period ninety days (90days) subject to the certification by the Project Manager.**

**60.2** Time within which Payment shall be made **45 days. Payment shall be made 45 days after Certification by the Project Manager except for Certificate No. 1, subject to the formalization of the Contract Agreement.**

**67** Appointer of the Arbitrator: **Chairman of the Institution of Engineers of Kenya.**

**Signature....., Date:.....**

**Name:....., in the capacity of.....**

**duly authorized to sign tenders for and on behalf of.....  
(IN BLOCK LETTERS)**

#### **Witness**

**Signature:....., Date:.....**

**Name:.....Address:.....**

## **SECTION 6**

# **TECHNICAL SPECIFICATIONS**

## **1.1 GENERAL**

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted subject to the Project Manager's prior review and written consent. This contract comprises the Installation of 1 No unit –Water purification / Reverse osmosis unit, construction, installation and interconnection of GI pipes, erection of masonry wall around the basement tank area and maintenance of the system for a period of Ninety (90) days.

## **MOBILIZATION, DEMOBILIZATION AND RESTITUTION**

**1.2.1** The Contractor shall mobilize to the site in accordance with the Agreed Program

**1.2.2** The Contractor shall minimize disturbance to neighboring plots. This shall particularly include ensuring not to create a nuisance either to the public or private property.

**1.2.3** Site re-instatement under the conditions of contract shall include the removal of all Unwanted debris. Site re-instatement is deemed an integral part of mobilization. This activity shall be costed taking into account the items above and expressed as a lump sum.

## **ELECTRO – MECHANICAL WORKS SPECIFICATIONS**

### **1. ELECTRICAL WORKS**

#### **1.1. REGULATIONS AND STANDARDS**

The complete electrical installation shall be carried out by a competent Contractor and in accordance with the specifications and compliance with the following;

- (a). Kenya Bureau of Standards
- (b). Regulations for the Electrical Equipment of Buildings (Latest Edition) issued by the Institution of Electrical Engineers of Great Britain.
- (c). IEC standards.
- (d). Electric Power Act and the Rules made there under.
- (e). Kenya Power & Lighting Co. Ltd Regulations and Bye-Laws.
- (f). Government Electric Specifications GES 1 and 2 which can be viewed at the office of the Chief Electrical Engineer, Ministry of Roads, Public Works and Housing.
- (g). Industrial Safety Regulations currently in force.

#### **1.2. SWITCH GEAR PANELS, INSTRUMENTATION PANELS, STARTER PANELS AND OTHER ELECTRICAL ENCLOSURES**



Unless otherwise specified, all shall be surface mounting, water tight, corrosion resistant, dust-proof and resistant to attack by oils and grease. They shall be fabricated from heavy gauge 16 swg, folded, spangled, galvanized and rust protected sheet steel of minimum thickness 1.5mm. They shall be finished in a two tone, heat resistant, non-peeling-off stoved gray enamel paint or epoxy powder coating.

### **1.3. ELECTRIC CABLES**

Unless otherwise specified, all cables shall be made of copper material and conform to BSS 6004, 600/1000 volts grade.

- (i). Unarmored cables shall be pvc insulated.
- (ii). Armored cables shall be PVC SWA PVC copper cables.

### **1.4 GS CABLE TRUNKING**

The trunking shall be manufactured from heavy duty hot dip galvanized mild steel sheet of minimum thickness 1.25 mm with screw-in and twist-to lock top lid.

### **1.5 PUMP SET STARTER**

It shall be 3 phase, 415 vac, 50/60 Hz Direct-On line. It shall be in a water tight, front access, hinged door, lockable enclosure fully wired labeled and comprising of

- Appropriate rating contactor / appropriate rating thermal overload.
- push buttons (green marked “START”, black marked “STOP/RESET”).
- Integral TPN (MCB) type 2.
- 1 No. 50x50mm AC ammeter of appropriate range.
- 1 No. 50x50mm AC voltmeter of range 0-500 vac.c/w protection mcb/fuse.
  - MP 204 pump control device
- appropriate and indicated Pilot indicator lights
- Hours run counter range 0-99999 hours.
- Cable terminal blocks of appropriate rating.

### **1.6 MOTOR**

The motor shall be the two pole canned asynchronous, totally enclosed , 3 phase, \ 15 vac, squirrel cage, induction type, continuously rated and of minimum CLASS “B” insulation. The entire body including the shaft shall be made of heavy duty stainless steel material.

### **1.7 PUMP**

The pumps shall be the high pressure, vertical mounting, multi-stage, centrifugal type running at a full load speed of not less than 2900 rpm. The entire pump body including the strainer, cable guard, non- return valve, impellers, shaft, locking nuts and washers shall be made of heavy duty stainless steel material. The bearings shall be the water lubricated type, wear resistant. The impeller(s) shall be hydraulically and dynamically balanced.

## **1.8 WATER LEVEL CONTROL ELECTRODES**

All the electrodes shall be made of stainless steel material **AISI 304 as Omron** or similar approved quality made of stainless steel. They shall be of size 6.0 mm diameter and 120mm length (D6x120mm) and in their tough moulded shrouds.

## **1.19 LIGHTING FITTINGS AND SOCKET OUTLETS**

Unless otherwise specified, they shall be rated so as to operate on single phase, 220-240 vac, 50/60 Hz power supply mains. they shall be the energy saving type, 1200mm single fluorescent fitting as Thorn, power factor compensated c/w tube and starter. Pump house lighting shall be water tight and corrosion resistant to water.

## **1.20 WIRING METHODS OF ELECTRICAL INSTALLATIONS AT MEDIUM AND LOW VOLTAGEE**

### **(i).SYSTEM “A”**

Plastic insulated cables enclosed in screwed steel conduit or trunking on the surface of walls and ceilings or in the roof space.

### **(ii). SYSTEM “B”**

Plastic insulated wires armored cables laid on the surface of walls, cable trays, in cable trenches or ducts.

### **(iii). SYSTEM “C”**

Plastic insulated cables clipped to the roof members and run in metal or plastic conduit drops concealed in walls or ducts formed in the fabric of the building.

## **1.21 PERFORATED CABLE TRAYS**

The tray shall be U-shaped, fabricated from hot dip galvanized heavy gauge (16 swg) sheet steel plate of minimum thickness 1.5mm. The tray shall have 2 No. GS brackets firmly welded at the back for wall mounting. The perforations shall be 25mmLx2.5mmW spaced at 15mm interval.

## **1.221.18 SYSTEM BONDING**

All non-conducting metallic parts which form part of the electrical system or are within the vicinity/route of the electrical system shall be effectively bonded to the main earthing system.

## **1.23 EARTHING SYSTEM**

All the electrical installation earthing conductors shall be connected to the earth electrode through an earth lead. The earth lead shall be firmly connected to the electrode by means of the clamp, after which a thin film of grease or Vaseline shall be applied at the clamp area for protection against corrosion.

## **1.24 AVAILABILITY OF SPARE PARTS**

The Contractor shall indicate local registered companies which stock spares and carry out repairs/maintenance of the equipment (generator, motor, pump starter etc) that he/she has offered.

## **2. MASONRY AND BUILDING WORKS**

All wall construction works shall conform to B.S 882 and shall be executed to a fine finish. All dressed stones shall be sandstone and shall be free from vents, clay holes, dis-coloration or other defects and shall be of even texture and color.

The mortar for bedding and jointing shall consist of one part ordinary Portland cement to B.S. 12, one part lime and six parts sand.

### **2.1 REGULATIONS AND STANDARDS.**

The complete work shall be carried out as per the specifications and complying standards:

- (a). World Health Organization Safety Regulations and Standards.
- (b). Kenya Bureau of Standard

## **2 TECHNICAL LITERATURE**

- (a). The bidder **MUST** submit adequate technical literature to assist in evaluation.  
The literature information shall **INCLUDE**;
  - Performance curves for the pump set (effects of altitude, temperature, pump capacity VS Head, Efficiency, Power consumption, etc).
  - Make, type model and country of origin of the generator, pump, motor, pump starter etc.
  - Specifications of materials used in the construction of the components of the pump, motor etc.
  - Any other information the bidder may deem is important in evaluation as well as BOOSTING his/her chances of winning the bid
  -

### **(b). THE WINNER OF THE BID MUST SUBMIT THE FOLLOWING;**

- 1 No. set of the **User manual** for the pump set.
- Written Warranty document of minimum 12 months for the pump set, starter etc.
- 1 No. SET of original film and 3 No. SETS each of as-fitted electrical schematic drawings, control wiring drawings for main switch gear, pump starter, cabling and water pipe lay out between borehole and tank.

### **(c). FAILURE TO SUBMIT**

Failure to submit **3 (a)** will result to disqualification.

Failure to submit **3 (b)** will lead to the delay in the release of retention money.

## SECTION 7

### PREAMBLE TO BILLS OF QUANTITIES

1. The Bills of Quantities are an integral part of the Contract documents and must be read in conjunction with the conditions of contracts, instruction to Bidders, specifications and drawings.
2. The brief descriptions of works under the items in the Bill of Quantities are purely for the purpose of establishing a standard to which a Contractor shall adhere. Otherwise alternative brands of equal and approved quality will be accepted.
- 31 The rates and prices inserted by the Bidder in the Bill of Quantities shall be deemed to include all obligations under the Contract including but not limited to supply of materials, labor, delivery to site, storage on site, installation, testing, commissioning, overhead charges, incidentals, contingency expenses and profits and all taxes ( **including VAT 16%**  ). In accordance with Government policy, the 16% VAT shall be deducted from all payments made to the Contractor, and the same shall be forwarded to the **Kenya Revenue Authority (KRA)**.
- 32 All prices omitted from any item, section, part of the Bills of Quantities shall be deemed to have been include to another item, section or part thereof. Should the Contractor install any material not specified herein before receiving **written approval** from the Project Manager, the Contractor shall remove the material in question and , **at his/her own cost**, install the proper material.
- 33 The words **"TAKE CUSTODY"** shall be taken to mean delivery, unloading, stocking, getting from the store, transporting, unloading, getting into position for fixing all the materials concerned and all other contingency expenses.
- 34 The grand total of prices in the price summary page must be carried forward to the Form of Tender/ **Form of Bid for the tender to be valid**.
7. Where dimensions are entered:-
  - mm - means millimeters
  - LM - means Linear meter
  - L - means Length
  - W - means Width
  - D - means Depth
  - DN - means Diameter Nominal
  - PN - means Pressure Nominal
  - LS - means Lump sum.
8. Tenderers **MUST** enclose, together with their submitted tender, manufacturer's brochures detailing technical literature and specifications of the equipment that they intend to offer. Where the brochures contain different models and sizes of the equipment, the bidders **MUST** clearly mark out the model and size of equipment they intend to offer by using a **'mark pen'**. **Where brochures are to be used for tender evaluation and the tenderers have not enclosed them in their tenders, then the same shall be sought from the tenderers to assist in the evaluation process.**

### STATEMENT OF COMPLIANCE

- a) I confirm compliance of all clauses of the General Conditions, Particular.
- b) Conditions, General Specifications and Particular Specifications in this Tender.
- c) I confirm that, I have not made and will not make any payments to any person, who can be perceived as an inducement to win this tender.

**Signed:.....**  
**for and on behalf of the Tenderer**

**Date:.....**

**Official Rubber Stamp:.....**

**INSTALLATION OF WATER PURIFICATION /  
REVERSE OSMOSIS UNIT**

## B I L L S   O F   Q U A N T I T I E S

### **BILLNO. 1 - PRELIMINARY AND GENERAL ITEMS**

ITEM No.	ITEM DESCRIPTION	QTY	UNIT	RATE (KSHS)	A M O U N T	
					KSHS	CTS
	<b><u>PRELIMINARY ITEMS</u></b>					
1.01	Allow provision for insurance in accordance with Clauses 21, 23 and 24 of the Conditions of Contract II	LS	ITEM		250,000	00
	<b><u>1.2 GENERAL ITEMS</u></b>					
1.02	Allow amount for stationery, communication, photo copying services , toners etc the Project Manager and his staff.	L.S	ITEM		20,000	00
1.2.1	Allow amount for upkeep of the Resident Engineer and his supervisory staff on site.	P.S	SUM		90,000	00
1.2.2	Allow amount to cover transport services and upkeep for Ministry of Water and Irrigation Headquarters supervision staff	P.S	SUM		75,000	00
1.2.3	Contractor's overheads and attendance upon items 1.2.1, 1.2.2 and 1.2.3.	----	%			
<b>TOTAL CARRIED FORWARD TO PRICE SUMMARY SHEET</b>						

### **EQUIPPING WORKS**

**BILL NO. 2.0 - WATER TREATMENT /REVERSE OSMOSIS PLANT**

ITEM NO.	ITEM DESCRIPTION	QTY	UNIT	RATE (KSHS)	A M O U N T	
					KSHS	CTS
2.01	<p>Supply, deliver to site, install, inter-connect, wire and test a reverse osmosis plant. Component inter-connection shall be carried out to conform with the existing inlet GI pipe work delivering water to the basement tank with the following features;</p> <ul style="list-style-type: none"> <li>- Frame mounted with all components accessible.</li> <li>- Low energy consumption.</li> <li>- Long life.</li> <li>- High efficiency DOW filmtec RO membranes housed in strong corrosion proof FRP pressure vessels.</li> <li>- High treatment performance with up to 98% salt rejection.</li> <li>- High pressure in line multi-stage stainless steel vertical mounted feed pump 3 phase 415 vac rated at 3 kw (3.75 hp) mounted to have a maximum head of 20 m and deliver 3m<sup>3</sup>/hr.</li> <li>- operating pressure of between 12 – 20 bar</li> <li>- system monitoring accessories including inlet and outlet flow meters, pressure gauges and conductivity meter.</li> <li>- electronic controller for fully automated plant operation including start up, periodic flush cycle and shut down as well as various system alarms</li> <li>- Sediment removal and carbon cartridge pre filters.</li> <li>- corrosion resistant stainless steel high pressure and plastic low pressure pipes and pipe fittings.</li> <li>- Safety margin of the net positive suction head of 1 meter</li> <li>- 3 Kw, 3 phase, 415 vac Direct On-Line starter With Thermal over load range shall be 23-32 amps set at 32 amps <u>c/w MP204 control unit</u></li> </ul>	1	Unit			
<b>TOTAL BILL No. 2.0 - CARRIED OVER TO COLLECTION SHEET No. "A"</b>						

**BILL NO. 2.1 - ASSOCIATED ASSESSORIES**

ITEM NO.	ITEM DESCRIPTION	QTY	UNIT	RATE (KSHS)	AMOUNT	
					KSHS	CTS

2.1.01	Supply, deliver to site, lay , 16 mm <sup>2</sup> /3 core pvc swa pvc copper cable, Wire to both the starter and the cable termination box.	40	RM			
2.1.02	Supply, deliver to site cable gland c/w lock-nut and shroud for; (i). 1.5mm <sup>2</sup> /2 core pvc swa pvc copper cable. (ii) 16.0 mm <sup>2</sup> /3 core pvc swa pvc copper cable	2 2	No. No			
2.1.03	Supply, deliver to site and install a DN65 GI class “B” water pipe c/w socket as directed.	20	RM			
2.1.04	Supply, deliver to site and install DN65high quality heavy duty water meter (threaded) with flanged connections type ABB or similar approved quality range 0 – 20 m <sup>3</sup> /hour made of cast iron , a dry dial for clear reading and a removable measuring mechanism..	1	RM			
2.1.05	Supply, deliver to site and install PN16xDN65 GS heavy duty non-return valve (threaded).	1	No			
2.1.06	Supply, deliver to site, install and test pressure gauge type kent or similar approved quality heavy duty of range 0 – 15.0 kg/cm <sup>2</sup> c/w all connections and fittings	1	No			
2.1.07	Supply, deliver to site and install PN16xXDN65heavy duty gate valve, female threaded (Peugler).	1	No			
2.1.08	Supply, deliver to site, install and test D6x120mm stainless steel electrodes in protection shrouds each c/w 2.0 meters of 1.0mm <sup>2</sup> sc rubber submersible electrode cable and wire to the cable termination box. The electrodes shall be in DN20 uPVC class “B” perforated water pipe fixed firmly vertically.	1	Pair			
<b>TOTAL BILL No. 2.1- CARRIED OVER TO COLLECTION SHEET No. “A”</b>						

**BILL NO. 2.2 - WATER TREATMENT / REVERSE OSMOSIS PLANT CONTROL ROOM**

ITEM	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT
------	------------------	-----	------	------	--------



NO.				(KSHS)	KSHS	CTS
2.2.01	Supply all materials, deliver to site, prepare and construct wall control room of internal size 6 ML x 5.5MW. It shall have burglar-proof steel door (2.0mmthick plates) with heavy duty stainless steel padlock, with insect-proof steel wire gauze ventilation perforations installed in the windward direction. The finished floor shall be 400 mm above the ground level. The floor slab shall be BRD 140:1:2:4.	L.S	Item			
2.2.02	Supply Deliver and install a Three phase triple pole 415 vac 32 amperes wall mounted MCCB in a metallic water proof , corrosion resistant enclosure with knock outs to facilitate cable entry.	1	No			
2.2.03	Install 1000 litres PVC ribbed water tank to facilitate storage of waste water from the treatment plant unit and connect the same to the main water and sewerage drain. This shall include GI pipes, sockets and unions installed so as to allow flow via gravity.	L.S	Item			
2.2.04	And apply 3 coats of emulsion water proof moon light paint to the newly constructed control room	L.S	Item			
2.2.05	Supply, Install and test Fire/smoke detection alarm system inside the control room and link it to the existing system.	L.S	Item			
<b>TOTAL BILL No. 2.2 - CARRIED OVER TO COLLECTION SHEET No. "A"</b>						

**BILL NO. 2.3 OVERALL SYSTEM PERFORMANCE TEST AND SITECLEARANCE**

ITEM NO.	ITEM DESCRIPTION	QTY	UNIT	RATE (KSHS)	AMOUNT	
					KSHS	CTS

2.3.1	Carry out electrical earth bonding and wiring connections	LS	Item			
2.3.2	<b><u>ELECTRICAL TYPE TESTS</u></b> Carry out all the electrical type tests on the electrical installation and ensure that the system complies fully with the I.E.E and Kenya Power & Lighting Co. Ltd Regulations and Bye Laws.	LS	Item			
2.3.3	Test the whole system (10 hours each day) to the satisfaction of the Engineer. Ensure that the water reaches the tank.	3	Days			
2.3.4	Carry out training for staff members.	1	Day			
2.3.5	Prepare and submit to the Engineer; (i). Simple <b>operation Manual</b> (ii). <b>As-fitted drawings</b> showing the pipe and cable lay out and connections on A4 paper	4 4	No. No.			
2.3.6	Allow making good and surface reinstatement at the location to the Project Manager's satisfaction.	LS	Item			
2.3.7	Commission the project and hand-over	L.S	Item			
<b>TOTAL BILL No. 2.3 - CARRIED OVER TO COLLECTION SHEET No. "A"</b>						

**COLLECTION SHEET No. "A"**

S/No.	ITEM DESCRIPTION	A M O U N T	
		KSHS	CTS
1	<b>TOTAL BILL No. 2.0</b>		
2	<b>TOTAL BILL No. 2.1</b>		
3	<b>TOTAL BILL No. 2.2</b>		
4	<b>TOTAL BILL No. 2.3</b>		
	<b>OVERALL TOTAL BILL No. 2 – CARRIED OVER TO PRICE SUMMARY SHEET</b>		

**BILLS OF QUANTITIES PRICE SUMMARY SHEET**

		<b>A M O U N T</b>
--	--	--------------------

S/No.	ITEM DESCRIPTION	KSHS	CTS
1	TOTAL BILL No. 1 (PRELIMINARY AND GENERAL ITEMS)		
2	TOTAL BILL No. 2 (EQUIPPING WORKS / CONSTRUCTION)		
	<b>TOTAL 1</b>		
	CONTIGENCIES (10 % OF TOTAL 1)		
	OVERALL TOTAL BILL CARRIED TO FORM OF BID		

AMOUNT KSHS (WORDS)

.....

.....

(AMOUNT IN FIGURES= KSHS.....)

SIGNED.....  
(BIDDER)

NAME.....

COMPANY OFFICIAL STAMP .....

DATE .....

## SECTION 8

## BID QUESTIONNARE

Please in block letters.

Full names of Bidder:

.....

full address of Bidder to which tender correspondence is to be sent (unless an agent has been appointed below .....)

Telephone number of Bidder :.....

Telex address of Bidder: .....

Name of Bidder's representative to be on matters of the tender during the bid period:

.....

Details of Bidder's nominated agent (if any) to receive bid notices. This is essential if the bidder does not have his registered address in Kenya (name, address, telephone, telex):.....

Signature of Bidder

Make copy and deliver to:      Secretary / Chief Executive  
Teachers Service Commission  
Private Bag - 00100  
**NAIROBI**

## **CONFIDENTIAL BUSINESS QUESTIONNARE**

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 License 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:

Names in full	Nationality	Citizenship details	Shares
1. ....	.....	.....	.....
2. ....	.....	.....	.....
3. ....	.....	.....	.....

**Part 2 (c) – Registered Company:**

Private of Public .....

State the nominal and issued capital of the company

Nominal Kshs.....

Issued Kshs.....

Give details of all directors as follows:

Names in full	Nationality	Citizenship details	Shares
1. ....	.....	.....	.....
2. ....	.....	.....	.....
3. ....	.....	.....	.....

**Part 2 (d) – interest in the firm:**

Is there any person/persons in ..... (Name of Bidder) who has interest in this firm? Yes/No

..... (Delete as necessary)

I certify that the above information is correct.

.....

(Title) (Signature) (Date)

Attach proof of citizenship

**SECTION 9****SITE OFFICE KEY PERSONNEL**

(Names and experience of key supervisory staff)

S/No	NAME	NATIONALITY	DESIGNATION	EXPERIENCE
1.				
2.				
3.				
4.				
5.				

**SCHEDULE OF MAJOR ITEMS OF PLANT TO BE USED IN THE CONTRACT**

	ITEM	No.	MAKE	MODEL AND YEAR	PRESENT LOCATION AVAILABLE ON THE WORKS

I hereby certify that the information above is correct to the best of our knowledge and that we understand it is our responsibility to provide whatever staff and equipment is required to complete the works in accordance with the contract.

Bidder ..... Signed ..... Date .....  
 Name ..... Title .....  
 (Bidder or his representative)

### SCHEDULE OF INSURANCE FOR THE CONTRACT

S/No	TYPE OF INSURANCE	NAME OF COMPANY	REGISTERED ADDRESS
1			
2			

We hereby certify that we have been advised by the above companies that they are willing to provide us with the required Insurance(s). We further certify that we will obtain from the company acceptable to the procuring entity and all insurance required by the contract.

Bidder: .....Signed: ....., Date .....

Name: ....., Title .....  
(Bidder or his representative)

### SCHEDULE OF ON-GOING PROJECTS

S/No	DESCRIPTION OF WORK AND CLIENT	CONTRACT PERIOD	DATE COMMENCED	TOTAL VALUE OF WORKS (KSHS)	DATE OF COMPLETION	% COMPLETE
1						
2						
3						
4						

I certify that the above works are currently being carried out by us and that the above information is correct.

.....  
(Title)

.....  
(Signature)

.....  
(Date)

**OTHER SUPPLEMENTARY INFORMATION**

1. Financial report for the last two years, balance sheets, profit and loss statements, auditors' reports etc. List them below and attach copies  
.....  
.....  
.....  
.....
2. Evidence of access to financial resources to meet the qualification requirements. Cash in hand, lines of credit etc. List below and attach copies of supporting documents.....  
.....  
.....
3. Name, address, telephone, telex, fax numbers of the Bidder's Bankers who may provide reference if contacted by the Procuring entity.....  
.....  
.....
4. Information on current litigation in which the Bidder is involved.

**OTHER PARTY/(IES)**

.....  
.....  
.....  
.....

**NATURE** **OF**  
**DISPUTE**.....

.....  
.....  
.....  
.....  
.....

**AMOUNT INVOLVED (KSHS)**.....

I certify that the above information is correct.

.....  
**Title**

.....  
**Signature**

.....  
**Date**



## **APPENDIX “X”**

### **BID EVALUATION CRITERIA**

After tender opening, the tenders will be evaluated in 2 stages, namely;

(i) Preliminary evaluation /Mandatory requirement which is either responsive or non responsive.

(ii) Technical Evaluation stage 1 – Maximum marks = 40, Pass mark is 30.

(iii) Technical Evaluation stage 2 - Maximum marks = 60 Pass mark is 40

**OVERALL PASS MARRK = 60**

### **STAGE 1 – DETERMINATION OF RESPONSIVENESS**

#### **A). PRELIMINARY EXAMINATION**

This stage of evaluation shall involve examination of the pre-qualification conditions as set out in the letter of invitation and any other conditions stated in the bid document. These conditions may include the following;

- Category of Registration with Ministry of Water & Irrigation in the relevant trade.
- Dully filled Form of Bid and other bid documents
- Any other conditions included in the advertisement notice/Invitation letter.

#### **NOTE**

For the purpose of this clause, a substantially responsive Tender is one which conforms to all terms, conditions and specifications of the tender document without material deviation or reservation and has a valid Bank guarantee”. The Procuring entity may seek further clarification if necessary to confirm authenticity/compliance of any condition of the tender

**The bidders who do not satisfy any of the above requirements shall be considered Non-Responsive and their tenders will not be evaluated**

#### **B). COMPLETENESS OF TENDER DOCUMENT**

The bid document shall be examined based on clause 2.2 of the Instruction to Bidders which states as follows; In accordance with clause 2.2 of Instruction to Bidders , the bidders will be required to provide evidence for eligibility of the award of the tender by satisfying the Procuring entity of their eligibility under sub-clause 2.1 of Instruction to Bidders and adequacy of resources to effectively carry out the subject contract. The bidders shall be required to fill the Standard Forms provided for the purposes of providing the required information. Bidders may also attach the required information if they so desire. The award of points for the **STANDARD FORMS** considered in this section shall be as shown below.

**MANDATORY REQUIREMENTS/PRELIMINARY  
EVALUATION CRITERIA**

No.	Requirements	Responsive or Not Responsive
MR1	Must Submit a copy of Valid certificate of Registration/Incorporation	
MR2	Must Submit a copy of Valid Tax Compliance certificate	
MR3	Bid questionnaire duly filled	
MR4	Must Fill the Price Schedule in the format provided	
MR5	Must submit evidence of NCA/MWI registration	
MR6	Must Fill the Form of Bid/ tender in the Format provided	
MR7	Must submit Bid Security of 2% from a reputable bank or an insurance company approved by the PPRA, of contract sum, that must remain valid for 150 days from the date of tender opening.	
MR8	Must submit a duly filled up and stamped Confidential Business Questionnaire in format provided	
MR9	Must submit Schedules insurance together with documentary evidence	
MR10	Valid PIN/VAT Certificate	
MR11	The bidder must ensure that all pages of the bid document are serialised	
MR12	Valid business licence permit	
MR13	Must have certificate of compliance from National Social Security Fund (NSSF) or submit evidence of remittance for the last three months	
MR14	Site visit form duly signed and stamped	

At this stage, the tenderer's submission will either be responsive or non responsive. The non responsive submissions will be eliminated from the entire evaluation process and will not be considered further.

## STAGE 1- TECHNICAL EVALUATION PHASE

N o	Description of Criteria	Maximum
1	Organizational Chart showing titles / roles of different persons and company profile	2
2	Evidence of physical address (attach documentary evidence in form of lease agreement or payment for utilities e.g. water bills or electricity bills)	2
3	<b>Financial Resources</b> <ul style="list-style-type: none"> <li>➤ Audited financial statement for the last 2 years @ 2 marks each</li> <li>➤ Liquidity ratio; 1.5 @ 2marks</li> <li>➤ Gross margin 15% @ 2 marks</li> </ul>	8
4	<b>Reputation Experience</b> <ul style="list-style-type: none"> <li>➤ Experience in supply in similar nature demonstrated by lists of clients/contracts in the last 2 years. Evidence of at least 4 clients, include POs, letters of award/ contracts, in which the services rendered are similar. @ 2 marks each</li> </ul>	8
5	<b><u>KEY PERSONNEL (ATTACH EVIDENCE)</u></b> 5 years or above experience (copies of CV / Certificates submitted @1 mark each <ul style="list-style-type: none"> <li>➤ Below 5 years half a mark each</li> </ul>	5
5	Work methodology and work plan <ul style="list-style-type: none"> <li>➤ Provide detailed work plan</li> </ul>	8
6	<b>SCHEDULES OF CONTRACTORS EQUIPMENT</b> Means of transport /equipment indicated with details	7
	<b>TOTAL MARKS</b>	<b>40</b>

**Bidder who scores 30 points and above shall be considered eligible for further evaluation.**

## **STAGE 2 – TECHNICAL EVALUATION**

### **A. COMPLIANCE WITH TECHNICAL SPECIFICATIONS**

In this section, the tender shall be analyzed to determine compliance with General and Particular technical specifications for the works as indicated in the tender document. The bidders shall fill the Technical Schedule as specified in the tender document for Equipment and items indicating the Country of Origin, Model/Make/Manufacturer of the Item/Equipment they propose to supply. Where the equipment proposed by the bidder differs with the models specified in the tender document, it is mandatory that the brochures/catalogues of the same be submitted with the tender document highlighting the catalogue Numbers of the proposed items. Such brochures/catalogues should indicate comprehensive relevant data of the proposed equipment/items which should include but not limited to the following:

- a). Standards of manufacture
- b). Performance ratings/characteristics
- c). Material of manufacture
- d). Electrical power rating
- e). Any other necessary requirements (Specify).

**Following the above analyses, where the proposed equipment are found not to satisfy the specifications, the tender will be deemed Non-Responsive and will not be evaluated further.**

### **B). DETAILED TECHNICAL EXAMINATION**

In this section, the information provided in Schedule of Unit rates and Technical Schedule will be analyzed and points awarded as shown below.

#### **PARAMETER MAXIMUM POINTS**

i). (a). Adequacy of Technical Information.....	10
(b). Fulfillment of other Technical Requirements.....	50
<b><u>TOTAL</u></b>	<b><u>60</u></b>

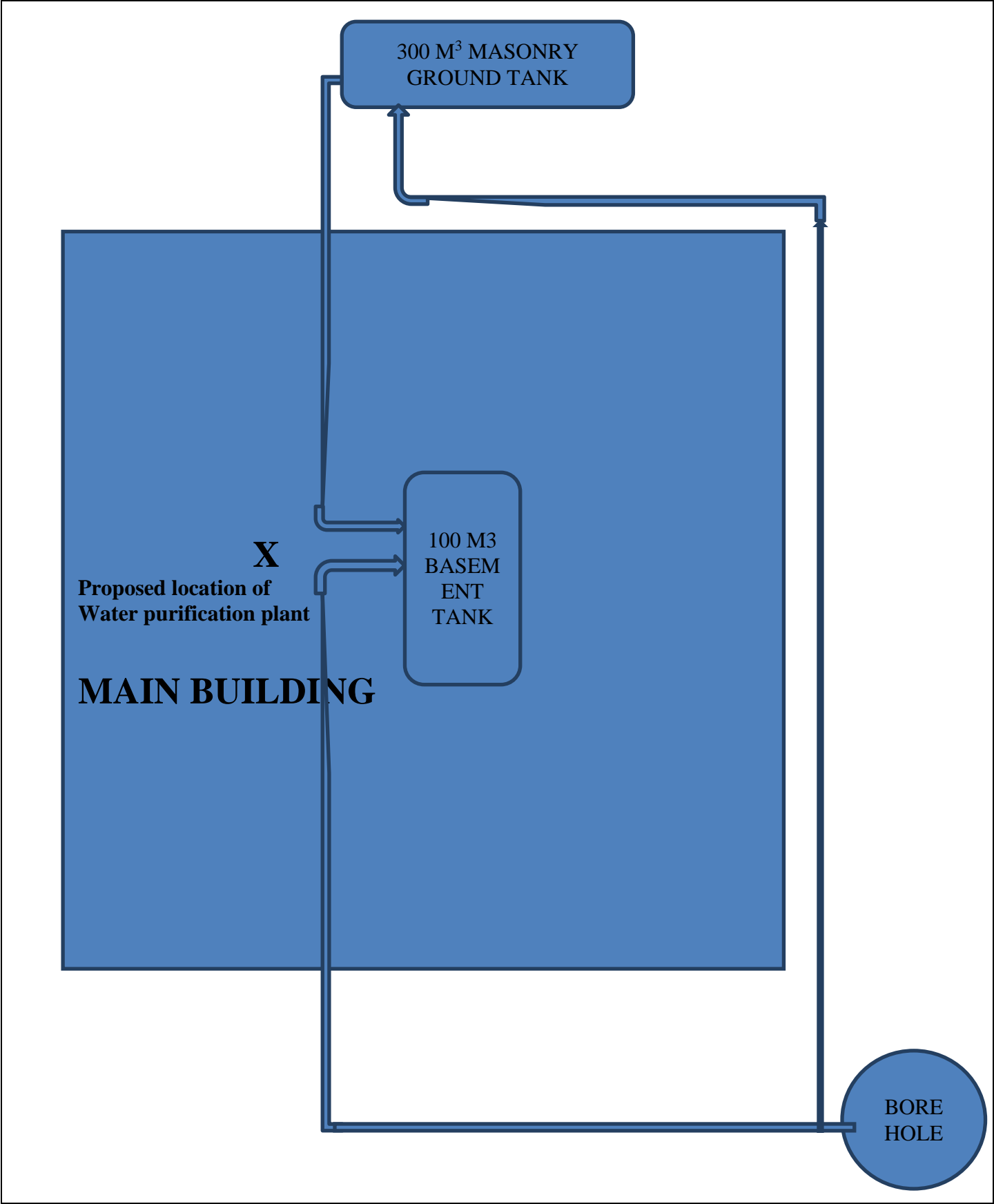
**For a bidder to be deemed technically responsive, he/she must fulfill all the mandatory requirements and score 40 points or above based on the above scoring plan.**

**The details scoring plan shall be as shown 2 below:-**  
**TECHNICAL EVALUATION DETAILS**

ITEM	ITEM DESCRIPTION	MAX. POINTS
<b>I</b>	<b><u>ADEQUACY OF TECHNICAL INFORMATION</u></b> a). Submitted adequate technical literature/ brochures including curves----- 10 b). Submitted partial literature and brochures but no Performance curves----- 5 c). Not submitted ant technical literature ----- 0	<b>10</b>
<b>II</b>	<b><u>FULLFILMENT OF OTHER TECHNICAL REQUIREMENTS</u></b>  <b>A. PUMP</b> a). i) Pump body casing (stainless steel)-----9 ii). Other materials-----0 b). i). Load speed (2800 – 3000 RPM)-----5 ii). Load speed outside the above range-----0 c). i). Make, Model, or Type indicated-----4 ii). Make, model, or Type not indicated-----0 d). i). Manufacturer and Country of origin indicated-----4 ii). Manufacturer and Country of origin indicated-----0 e). i). Minimum pump efficiency at the duty point shall be 55%----- 8	<b>30</b>
	<b>B. MOTOR</b> a). i). Motor body (stainless steel)-----5 ii). Body made of other materials:-----0 b). Must satisfy the pump rating requirements.-----2 c). Make, model, or Type indicated-----1 d). Minimum winding insulation class shall be (B).-----1 e). Manufacturer and Country of origin indicated-----1	<b>10</b>
<b>III</b>	<b><u>D. PUMP STARTER</u></b> a). i). Rating (Kw) indicated and meets pump specifications:----- 5 ii). Not Indicated/indicated but do not meet pump specs----- 0 b). i). Make, model, or Type indicated-----3 ii). Make, model, or Type not indicated----- 0 c). i). Mode of starting indicated ( DOL, Star-Delta, etc)-----2 ii). Mode of starting not indicated-----0	<b>10</b>
	<b>TOTAL SCORE - TECHNICAL</b>	<b>60</b>

## **GENERAL EXISTING TANK AND PIPE LAYOUT**









## TEACHERS SERVICE COMMISSION



### SITE VISIT FORM

Bidder/Company Name

.....

Tender No.:

Tender Name:

AREA	DETAILS	PLEASE TICK (✓) IF VISITED

This is to certify that the named bidder/company visited the station and has been shown all the areas as required in the Tender document.

TSC Rep. Name:.....Signature:.....

Date:.....

Official Stamp

Bidder's Rep Name:..... Signature: .....

Date:.....

Official Stamp