**Islamic Relief Kenya**

# TENDER DOCUMENT FOR THE CONSTRUCTION REHABILITATION OF OVO AND ADELE BOREHOLES IN TANA RIVER COUNTY.

REF NO: IRK/TNR/WORKS/002/03/2025

ISSUED ON: THURSDAY, 13TH MARCH 2025

CLOSING DATE: WEDNESDAY, 26TH MARCH 2025 11.00 AM

NAME AND CONTACT OF PROCURING ENTITY:

Islamic Relief Kenya
Kirichwa Road, off Ngong Road
P.O.BOX 417 – 00202 KNH, Nairobi
Email: procurement.Irk@islamic-relief.or.ke

**INSTRUCTION TO BIDDERS**

Established in 1984 in the UK, Islamic Relief is an international NGO seeking to promote sustainable economic and social development by working with local communities through relief and development activities regardless of race, color and religion, and without expecting anything in return.

IR started operations in Kenya in 1993 on orphan's sponsorship programme through a local CBO in Mandera District, Northern Kenya. It opened its fully fledged office in March in 2006 at the heightof drought in the Horn of Africa. Since then, IR has been providing humanitarian and developmentassistance to vulnerable communities. Over these years it has implemented various developmentand relief activities in Mandera. This has remarkably changed the lives of the vulnerable and disadvantaged communities. In January 2010, IRK extended its operation to Wajir County and in January 2012 expanded to Garissa and Dadaab, and in October 2017 opened a programme office in Kilifi County.

Islamic Relief Kenya focuses on resilience projects namely: Food Security and Livelihoods, Water Sanitation and Hygiene, Cash Transfer Programming, Orphans Support and Sponsorship, women Empowerment, Education and Peacebuilding.

The WAVE project is under implementation in Tana River County Kenya. It aims to implement inclusive climate adaptation and resilience actions and strategies at grass root levels to increase the adaptive capacity and level of climate resilience of the target communities, the project outcomes are,

1. Increased access to potable and sufficient water for human and livestock consumption and for small-scale irrigation.

2. Improved agricultural and livestock productivity through supporting extension services and climate smart agricultural practices, for optimal food production.

3. Increased income and asset growth for the unemployed urban, and peri urban youths.

4. Strengthened community managed disaster risk reduction capacity.

Islamic Relief Kenya is planning to undertake **CONSTRUCTION REHABILITATION OF OVO AND ADELE BOREHOLES IN TANA RIVER COUNTY.**

A complete set of tender documents may be obtained Free of Charge by interested candidates by downloading from the link provided: Islamic Relief Kenya website: https://islamic-relief.or.ke

Complete one tender document in pdf format (max 25mb) with subject as tender name and reference number **TENDER:** IRK/TNR/WORKS/002/03/2025 **to** be submitted via email tenders@islamic-relief.or.ke no later than Wednesday 26th March 2025 at 11:00 am.

Tenders will be opened immediately thereafter in the presence of bidders or their representatives who choose to attend in the Islamic Relief Boardroom. Any tender documents received later than the deadline will not be accepted**.**

At the tender opening, IRK will announce the tenderer's names, total tender price, 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. Tenders not opened and read out at the tender opening shall not be considered further for evaluation, irrespective of the circumstances.

Prices quoted should be inclusive of all taxes, must be in Kenya shillings and shall remain valid for (60) days from the closing date of tender.

**Bid Submission Format:**

Eligible bidders can download a complete set of tender documents with evaluation criteria from the Islamic Relief Kenya website: https://islamic-relief.or.ke Complete one tender document in pdf format (max 25mb) with subject as tender name and reference number to be submitted via email tenders@islamic-relief.or.ke no later than **March 26th March , 2025 at 11:00 am**

A complete set of tender documents may be obtained Free of Charge by interested candidates by downloading from the link provided: Islamic Relief Kenya website: https://islamic-relief.or.ke

Interested bidders are advised to read the submission instructions carefully to ensure compliance
**Submission Email**: To be submitted via email: tenders@islamic-relief.or.ke

**Single PDF Document**: Each bid must be submitted as a single, consolidated PDF document (Max 25mb). Multiple or fragmented submissions will not be accepted.

**Bidder Email**: Interested bidders may submit their bids **ONLY** from the official email address of the bidder or company

**Direct PDF Attachment Only**: Bid documents must be attached directly as PDF files in the submission email. Links to external file-sharing platforms, such as Google Drive or Dropbox, are not permitted and will not be reviewed.

**Subject Line Specification**: Bidders must include the tender name and reference number in the email subject line to ensure proper filtering and identification of submissions.

**Tender Tittle**: Construction Rehabilitation of Ovo and Adele Boreholes in Tana River County

**Disqualification Notice**: Failure to adhere to these submission requirements will result in the disqualification of the bid.

**INSTRUCTION TO BIDDERS**
**PROCURING ENTITY:** ISLAMIC RELIEF KENYA. P.O BOX 417-00202 KNH, Nairobi

CONSTRUCTION REHABILITATION OF OVO AND ADELE BOREHOLES IN TANA RIVER COUNTY.

1. All Tenders above must be accompanied by a Bid Bond at least 10% of the quoted amount valid for 180 days.
2. **Only** tenders submitted electronically will be accepted. Late tenders will be rejected

3. **Work Scope and Sites Details**

The tender is for undertaking the following components as per Annex I – BoQ and Annex II – Drawings:

**Eligible Bidders**
The invitation for the bids is open to all interested eligible Companies/individuals who are duly registered with the national government, respective County governments and National construction authority.

4. **Services**

All services to be done under the contract shall have their measurement and shall not be subcontracted.

5. **Cost of Bidding**

The bidders shall bear all costs associated with preparation and the submission of its bid & IRK will in no case be responsible for those costs, regardless of the conduct or outcome of the bidding process.

6. **Clarification of Bidding Documents**

Interested eligible candidates who may want to obtain further information or seek for clarification can do so by sending an email to Procurement.Irk@islamic-relief.or.ke OR **+254 727531220 / 2543861216.** IRK will respond in writing to any request prior to the deadline.

If you have any concerns – relating to this tender or otherwise – or want to make a complaint please:Call us on +254 700 200 849 Email us at: complaints@irworldwide.org

7. **Amendment of Bidding documents**

At any time prior to the deadline for submission of bids, IRK May for any reason, at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents & will be binding on them. The amendment will be notified in writing to all prospective bidders, who have received the bidding documents & will be binding on them. In order to allow prospective bidders responsive time in which to take the amendment into account in preparing their bids, IRK may, at its discretion, extend the deadline for bid submission.

8. **Language of the Bid**

The bid prepared by the bidder, as well as all correspondence & documents relating to the bid, supporting documents and printed literature furnished by the bidder shall be written in English language.

**9. Bid Document Comprises**.

The bid document prepared by the bidder shall comprise of the following:

a) Each page of the tender document is serialized.
b) Form of tender signed and stamped by the authorized person.
c) Tender submitted with tender security as required (bid bond 10% of the quoted amount)
d) Completed and signed confidential business questionnaire form.
e) Certified Copy of Certificate of Incorporation/Registration.
f) Disclosure of business ownership (Directors/ Partners /Sole Proprietor). Attach a copy of CR12 Form
g) Certified Copy of Current Tax Compliance certificate from Kenya Revenue Authority – must verifiable online –itax
h) KRA PIN with VAT obligation
i) Certified Copy of Valid and current Business Permit
j) Certified copy of Valid registration for National Construction Authority NCA 7 and above – water and building works
k) Bidder to provide self-declaration that the person/tenderer will not engage in any corrupt or fraudulent practice.
l) Only certified Statement of comprehensive income for the last three years (Max. 3 pages) signed by auditors.
m) Company Profile with brief business description, physical location, address and company structure (Max. 5 pages).
n) Evidence of Past Experience in Similar work done for the last 5 years e.g. at least 5 signed contracts supported by LPO and Certificate of Completion
o) Copy of ID/Passport for Company Owner/Director
p) Bid bond (10% of the quoted amounts)
q) Key Technical staff and their CVs (Key people but not more than four CVs)
r) List of Key Equipment (**only** relevant equipment).
s) Detailed workplan and methodology statement: Work plan demonstrating flow of work from inception to site hand over) (Max 3 pages)
t) Bank Statement for 6 months (1st September 2024 – 28th February 2025)
u) Duly filled Tender B.o.Q and forms in the format provided
v) All copies of certified/mandatory documents must be Certified by a Commissioner of Notary/ Oath.

*NB: - Partial delivery of the documents will lead to disqualification. Preference shall be given to qualified local supplier with valid licenses.*

- *It is advisable that the bidder at own cost and convenience to undertake a physical visit and assessment of the particular site for the proposed works prior to the compilation of the bid.*

**10. Bid Currencies**

The bids prices shall be quoted in Kenya Shillings (KES).

**11. Bids Prices**

- The potential contractor shall submit his/her bid in the BOQ format provided in Annex I
- The bidders shall indicate the unit price where possible and the total bid price as indicated in the BOQ.
- Prices quoted by the bidder shall be fixed during the performance of the contract.

**12. Withholding Tax**

IRK shall retain 3% of contract value as withholding tax and remit to the government. A receipt shall be issued for this.

**13. Retainer**

IRK shall retain 10% of the contract value for a period of 6 months being defect liability.

**14. IRK's right to vary quantities at the time of the award**

IRK reserve the right at the time of the award of contract to increase or decrease by up to 10% the quantity of work specified in the technical specification without change of unit price or other terms of condition.

**15. IRK's right to accept any bid and/or reject any or all bids**

IRK reserves the right to accept any bid and to annul the bidding processes and reject all bids at any time prior to award of contract, without, thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders on the grounds of its action.

**16. Submission of Bids**

The bidders shall submit their bids in one envelope marked with Tender Name and Reference.

**17. Evaluation**

18.1 IRK will examine the prequalification documents to determine completeness, general orderliness, sufficiency in responsiveness, price and product brand.

18.2 The potential contractor shall not contact IRK on matters relating to their bid from the time of opening to completion and official communication sent to them. Any effort by the potential contractor to influence IRK in the evaluation shall result in disqualification.

18.3 Prequalification will be based on meeting the minimum criteria regarding the applicant's legal status, general and experience, personnel and financial position as demonstrated by their responses as set in clause

18.4 The applicants **MUST** have registered offices and IRK reserves the discretion of visiting physical premises from which the applicant conducts business if so desired to confirm existence and capability to execute the contract.

18.5 Due diligence shall be undertaken, and any bidder found to be in breach by providing false information shall be disqualified.

**19. Employment of Minors**

The Contractor shall not employ children in executing the contract. The Contractor shall observe international conventions relating to child labor namely the UN Convention No.182 on worst forms of child labor and convention No. 138 on the minimum age for admission to employment.

**20. Criminal Act**

The Contractor undertakes to comply with all applicable laws and to ensure that it does not engage in any kind of criminal activity including but not limited to bribery, fraud, corruption, terrorism and to maintain ethical business practices as well as not to commit any Prohibited Acts defined as: -

i) To offer, promise or give any person a financial or other advantage.

ii) To request, agree to receive or accept any financial or other advantage not expressly provided for as an inducement or a reward for the performance of any function or activity in connection with this Agreement.

BID EVALUATION RATING SCALE

**MANDATORY REQUIREMENTS**

| No | Description | Mandatory Evaluation (YES/NO) |
|---|---|---|
| **1** | Company Registration Certificate – Mandatory | |
| **2** | CR12- issued within the last 3 months | |
| **3** | Duly filled forms (Organization details, Grounds for Mandatory Rejection, Grounds for Discretionary rejection form, Bid Value, Financial and declaration) | |
| **4.** | Valid Registration with the county government/valid and genuine business permit. | |
| **5.** | Valid Registration with (NCA7 and above). ( building Works & water works) | |
| **7** | Active KRA PIN – With VAT Obligation | |
| **8** | Valid Tax Compliance | |
| **9** | Copy of ID/ Passport of the directors | |
| **10** | Serialization of the Bid – Bidders shall sequentially serialize all pages of the | |

**Note:** Bids that do not include any of the documents listed as mandatory will not be considered for either the technical or financial evaluation**.**

**TECHNICAL ANALYSIS**

| No. | Description | | Score |
|---|---|---|---|
| **1** | Brief Company Profile with verifiable physical location/address | | 10 |
| **2** | List of Key Equipment | Owned (Max 15 marks) | 20 |
| | | 50% Owned – 50% leased (Max - 7) | |
| | | 100% leased (Max. 5 Marks) | |
| **3** | List of Key Personnel | (Degrees- 10, HNDs – 6, Diplomas – 4) | 20 |
| **4** | Number of Years in Operation at least 5 years | 1yr - 2 marks<br>2yrs- 4 marks<br>3yrs- 6 marks<br>4yrs- 8 marks<br>5yrs & above – 10 marks | 10 |
| **5** | Evidence of past similar works – Contract, LPO & Completion certificates. | -5 or More = (Max. 30 marks | 30 |
| | | 4 LPOs, contracts & completion cert. (Max 24 marks) | |
| | | 3 LPOs, contracts & completion cert. (Max 18 marks) | |
| | | 2 LPOs, contracts & completion cert. (Max 12) | |

| | | | |
|---|---|---|---|
| | | 1 LPO/contracts/completion cert (Max 4 Marks)<br>Note: the contract/LPOs/completion certificate must be readable, signed and stamped by the issuing authority for authentication. | |
| **6** | Detailed work plan and methodology statement | Detailed workplan and methodology statement: Work plan demonstrating flow of work from inception to site hand over) (Max 3 pages) | 10 |
| | **TOTAL** | **100** | |

Note: Bids that do not score 80% or above in the technical analysis will be automatically disqualified and will not be considered for financial evaluation.

**FINANCIAL ANALYSIS**

| **No.** | **Description** | | **Maximum** |
|---|---|---|---|
| **1** | Certified Bank statement for the past six months (Aug 2024 – Feb 2025)<br>. | Certified bank statement for 6 months.<br><br>Uncertified bank statement -0 | 25 |
| **2** | Evidence of a Certified letter of credit from the reputable from reputable bank. | Certified letter (signed & stamped) of credit. | 25 |
| | **TOTAL** | | **50** |

Note: Bids that do not score 75% or above in the financial analysis shall not be considered for due diligence.

**Tender Schedule**

| **Task** | **Tentative Tender Schedule** |
|---|---|
| Advertising of tender | 13th March 2025 |
| Closing of tender | Wednesday, 26th March 2025 11:00 am |
| Opening of tender | Wednesday, 26th March 2025 11:00 am |
| Evaluation | 27th to 31st March 2025 |
| Award | 1st April 2025 |

**MANDATORY QUESTIONNAIRE**

## A: Organization and Contact Details

| | | | |
|---|---|---|---|
| **Full Name of Organization** | | | |
| **Date of Registration** | | | |
| **Registration Certificate Number** | | | |
| **Street** | | **Road** | |
| **Address** | | **Code** | |
| **Town** | | | |
| **Email** | | **Telephone No.** | |
| | | | |
| **PIN No**. | | | |
| **Name of Parent Company** | | | |
| **Type of Organization** | | A Public Limited Company | |
| | | A Limited Company | |
| | | A Limited Liability Partnership | |
| | | Other Partnership | |
| | | Sole Trader | |
| | | Other (Please Specify) | |

**Name of Owners**

| **Name** | **ID/Passport No.** | **Nationality** |
|---|---|---|
| | | |
| | | |

| DETAILS FOR CONTACT PERSON | |
|---|---|
| Contact details for enquiries about this PQQ/Business Issues | |
| **Name of Staff** | |
| **Address** | |
| **Post Code** | |
| **Town** | |
| **Phone** | |
| **Mobile** | |
| **Email** | |

**B - Grounds for Mandatory Rejection**

**Important Notice:**

**In some circumstances IRK is required by law to exclude you from participating further in a procurement. If you cannot answer 'no' to every question in this section it is very unlikely that your application will be accepted, and you should contact us for advice before completing this form.**

Please state 'Yes' or 'No' to each question.

| **Has your organization or any directors or partner or any other person who has powers of representation, decision or control been convicted of any of the following offences?** | **Answer** |
|---|---|
| (a) A crime | |
| (b) Corruption | |
| (c) The offence of bribery; | |
| (d) Fraud within the meaning of: | |
| i) Money laundering | |
| ii) Any other offence | |

| | |
|---|---|
| Has your organization fulfilled obligations related to the payment of social security contributions or the payment of taxes in accordance with the legal? Answer with a "**Yes**" or "**No**" | |

**C - Grounds for Discretionary Rejection**

**Important Notice:**

**IRK is entitled to exclude you from consideration if any of the following apply but may decide to allow you to proceed further. If you cannot answer 'no' to every question it is possible that your application might not be accepted. In the event that any of the following do apply, please set out (in a separate Annex) full details of the relevant incident and any remedial action taken subsequently. The information provided will be taken into account by IRK in considering whether or not you will be able to proceed any further in respect of this procurement exercise.**

Please state 'Yes' or 'No' to each question.

| **Is any of the following true of your organization?** | |
|---|---|
| (a) Is bankrupt or under receivership or bankruptcy restrictions order made against the organization | |
| (b) Is insolvent, | |
| (c) Is the subject of an order by the court winding up otherwise than for the purpose of bona fide reconstruction or amalgamation, or had a receiver, manager or administrator on behalf of a creditor appointed in respect of the company's business or any part thereof or is the subject of similar procedures under the law of any other state? | |
| **Has your organization** | |
| (a) been convicted of a criminal offence relating to the conduct of your business or profession; | |
| (b) committed an act of grave misconduct in the course of your business or profession; | |
| (c) failed to fulfil obligations relating to the payment of social security contributions | |
| (d) failed to fulfil obligations relating to the payment of taxes under the | |
| (e) been guilty of serious misrepresentation in providing any information required | |

## D – Bid Value & Duration of Supply

| | |
|---|---|
| *Bid Value for the Work* | *Kshs.* _____ |
| *Payment Terms* | |
| *Duration of Delivery* | |
| *Remarks* | |

## E - Financial

| **1** | **BANK INFORMATION** | |
|---|---|---|
| 1.1 | *Bank* | |
| | *Branch* | |
| | *Account Name* | |
| | *Account Number* | |
| | *Swift Code* | |
| | *Letter From Bank Confirming Account & Credit Facility* | |

| F | Declaration | Declaration |
|---|---|---|

| | | |
|---|---|---|
| **2.** | I declare that to the best of my knowledge the answers submitted in this bid document are correct. I understand that the information will be used in the process to assess my organization's suitability to be invited to tender for Islamic Relief's requirement and I am signing on behalf of my organization. I understand that the Contracting Authority may reject this bid if there is a failure to answer all relevant questions fully or if I provide false/misleading information. By signing the bid document, I certify that all of the above statements are accurate and factual.<br>**FORM COMPLETED BY** | |
| 2.1 | Name: | |
| 2.2 | Position: | |
| 2.3 | Signature: | |
| 2.4 | Date: | |
| 2.5 | Stamp: | |

Name of Bidder: _____

Authorized signature: _____

Name of Authorized signatory: _____

Functional Title: _____

Telephone Number: _____

Email Address: _____

Date: ___/ __/2025 Official Stamp:

# ANNEX I: B.O.Q-ADELE

| | | | | | |
|---|---|---|---|---|---|
| | BOQ FOR BOREHOLE REHABILITATION AND SOLARIZATION WORKS AT ADELE BH-TANA RIVER COUNTY | | | | |
| **ITEM** | **DESCRIPTION** | **UNIT** | **QTY** | **RATE** | **AMOUNT (KSHS)** |
| | **ALL PROVISIONAL** | | | | |
| | The contractor to note that the location of the works is in public learning institution thus the works are to be carried out in such a manner that learning is not disrupted | | | | |
| | All the works to be done by a specialist taking care of the existing borehole. | | | | |
| | In case of damage arising from the contractor's negligence, necessary repairs shall be done at the cost of the contractor | | | | |
| | Contractor's mobilization | | | | |
| 1.1 | Mobilization and demolition of contractor's plant and equipment including but not limited to drilling units, tank erection equipment, test pumping equipment, borehole development equipment, materials, personnel and other required supplies. | Item | 1 | | |
| 1.2 | Allow for site clearance and Engineer's inspection to establish the water levels of the borehole | Sum | 1 | | |
| | Rehabilitation of borehole | | | | |
| 1.4 | Carefully remove the defective/broken down submersible pump and inspect to establish the extent of the damage, deliver the damaged pump to IRK TANA RIVER OFFICE | No. | 1 | | |
| | Inspection and cleaning of steel pipe casing | | | | |
| 1.5 | Carefully inspect the existing steel pipe casing and clean them where necessary as directed by the Engineer | Item | 1 | | |
| | De-siltation | | | | |
| 1.6 | Allow for de-siltation of the borehole using special equipment to be approved by the Engineer | Item | 1 | | |
| | Disposal of Water | | | | |
| 1.7 | Carefully dispose off water arising from desiltation and other cleaning works | Item | 1 | | |
| | ***Total carried forward*** | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **ITEM** | **DESCRIPTION** | **UNIT** | **QTY** | **RATE** | **AMOUNT** |
| | **Brought forward** | | | | |
| | Submersible Pump | | | | |
| 1.8 | Procure, deliver and install submersible pump capable of output of 2 - 5m3 per hour at 110 - 240H with and including all electrical connections<br>Davis and Shirtliff DSD 5/18, 1.5KW and 2.0HP | No. | 1 | | |
| | Solar panels | | | | |
| 1.10 | Procure, deliver and install new 15No solar panels with a capacity 250W as directed by the Engineer ,the cost should be inclusive of the solar structre | No. | 15 | | |
| | Sunverter | | | | |
| 1.11 | Procure, deliver and carefully install approved sunverter as per Dayliff Sunverter 2 or other equal and approved capable of operating the above specified pump with and including all necessary electrical connections | No. | 1 | | |
| | Float switch | | | | |
| 1.12 | Provide and install float switch and other related accessories as directed | No. | 1 | | |
| 1.13 | Float switch cable | m | 200 | | |
| | Piping works with and including connections where not listed herein below | | | | |
| 1.14 | 63mm diameter HDPE pipe, PN 16 | m | 600 | | |
| 1.15 | PPR Pipe 25mm diameter, PN 12.5 | m | 350 | | |
| | | | | | |
| | ***Total carried forward*** | | | | |
| | | | | | |
| **ITEM** | **DESCRIPTION** | **UNIT** | **QTY** | **RATE** | **AMOUNT** |
| | **Brought forward** | | | | |
| | HDPE pipe fittings | | | | |
| 1.16 | 63mm diameter nipple | No. | 1 | | |
| 1.17 | Ditto connector | No. | 13 | | |
| 1.18 | Reducing socket | No. | 1 | | |
| 1.19 | 63mm diameter gate valve | No. | 1 | | |
| 1.20 | 63mm diameter non-return valve | No. | 1 | | |
| | PPR pipe fittings | | | | |
| 1.21 | Taps, pegler lockable taps as directed | No. | 3 | | |
| 1.22 | PPR connectors | No. | 5 | | |
| 1.23 | T junctions, GI Tee | No. | 2 | | |
| 1.24 | Water meter, 1inch | No. | 1 | | |
| | Maintenance and servicing kit | | | | |
| | Water testing | | | | |

| | | | | | |
|---|---|---|---|---|---|
| 1.26 | Provide an amount for the supply and installation of 10,000litre water tank at the school, this should include the tand slab and related pipe connection from the borehole and related plumbing works. | No. | 1 | | |
| 1.27 | Provide an amount for the construction of 2NO.water point with 5 taps each at Adele primary school and animal water trough at the community point near the kiosk | Sum | 1 | | |
| | *Sub-total 1* | | | | |
| | | | | | |
| 1.28 | Add Preliminaries associated with the works inclusive of the Performance Bond, Insurance for the works Etc | | | | |
| | *Sub-total 2* | | | | |
| | | | | | |
| | Add 16% VAT | | | | |
| | **TOTAL (KSHS)** | | | | |

| | | BOQ FOR THE CONSTRUCTION OF A WATER KIOSK AT ADELE | **UNIT** | **QTY** | **RATE KSHS** | **AMOUNT** |
|---|---|---|---|---|---|---|
| | | **BILL NO: CONSTRUCTION OF WATER KIOSK WITH REINFORCED PLATFORM FOR TANK** | | | | |
| | | **A. <u>SUBSTRUCTURES</u>** | | | | |
| | | **ELEMENT NO. 01-SUBSTRUCTURE** | | | | |
| | | **<u>(ALL PROVISIONAL)</u>** | | | | |
| | A | Excavate oversite to remove vegetable soil average 150mm deep;wheel and deposit on site n.e. 100M away in permanent spoils heaps | SM | 20 | | |
| | B | Ditto but to a depth of 300mm | CM | 1.8 | | |
| | C | Excavate for pad foundation and strip footing not exceeding 1000 mm deep. | CM | 25 | | |
| | | **<u>Disposal</u>** | | | | |
| | D | Cart away excess excavated material to spoil | CM | 10 | | |
| | | **<u>Hardcore</u>** | | | | |
| | E | 250mm thick filling: deposit, spread, level and compact: to receive blinding | CM | 3 | | |
| | F | 50mm murram blinding to surface of hardcore. | SM | 6 | | |
| | | **<u>Anti-Termite Treatment</u>** | | | | |
| | G | Chemical anti-termite treatment executed by Rentokil Laboratoties Limited or equal and approved pest control firm under a ten year gurantee, applied to surface of excavation and floor | SM | 12 | | |
| | | **<u>Damp-Proof Membrane</u>** | | | | |
| | H | 500mm Gauge polythene damp-proof membrane laid on blinded hardcore with 100mm folded side and end laps (measured net-allow for laps) | SM | 12 | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | **Plain Concrete 1:4:8 mix in:** | | | | |
| | G | 50 mm blinding bed under strip footing | CM | 6 | | |
| | | **Reinforced Concrete 1:2:4- 20mm gauge mix in** | | | | |
| | H | 150 mm floor slab | SM | 12 | | |
| | I | 300 mm thick Strip Footing | CM | 2.16 | | |
| | J | 600 x150mm thick pavement round the perimeter walling | SM | 1.08 | | |
| | | **Reinforcement** | | | | |
| | | **High Tensile Steel Reinforcement to B.S. 4483** | | | | |
| | K | Y12 | NO | 6 | | |
| | L | Y10 | NO | 4 | | |
| | M | Y8 | NO | 4 | | |
| | | **Mesh Fabric Reinforcement to B.S.4483** | | | | |
| | N | Mesh reinforcement reference A 142 weighing 2.22kg per square metre laid in bed with 300mm side and end laps (Measured net allow for laps) | SM | 17 | | |
| | | **MASONRY** | | | | |
| | O | Medium quarry dressed stone walling in cement and sand (1:3)mortar:20 gauge x 25mm wide hoop iron reinforcement and column-wall ties in every alternate course: to | | | | |
| | P | 200mm walling in Foundation | SM | 15 | | |
| | | **Hessian Based Bituminous Felt Damp-Proof course to B.S.743 type 4A and setting in cement and sand mortar** | | | | |
| | Q | under 200mm walls | L.M | 10 | | |
| | | **TOTAL ELEMENT 01** | | | | |
| | | **DESCRIPTION** | **UNIT** | **QTY** | | |
| | ITEM | | | | | |
| | | **ELEMENT NO-02** | | | | |
| | | **CONCRETE WORK AND WALLING** | | | | |
| | | | | | | |
| | | **Reinforced Concrete 1:2:4- 20mm gauge mix in** | | | | |
| | A | Rings Beams;450x200 | CM | 0.9 | | |
| | B | 150mm roof slab and fetching bay | CM | 1.8 | | |
| | | **Sawn formwork to** | | | | |
| | C | sides and soffits of beams | SM | 9.7 | | |
| | D | Ditto but to sides and of columns | SM | 19.2 | | |
| | E | Ditto but including props beneath the roof slab and fetching bay | SM | 12 | | |
| | | **Reinforcement** | | | | |
| | | **High Tensile Steel for columns, ring beam and top slab Reinforcement to B.S. 4483** | | | | |
| | F | Y16mm Bars | NO | 12 | | |
| | G | Y10mm Bars | NO | 16 | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | H | Y12mm Bars | NO | 15 | | |
| | | **Walling** | | | | |
| | | **Medium quarry dressed stone walling in cement and sand (1:3)mortar:20 gauge x 25mm wide hoop iron reinforcement and column-wall ties in every alternate course: to** | | | | |
| | I | 200mm walling | SM | 25 | | |
| | | **TOTAL ELEMENT 02** | | | | |
| | | | **UNIT** | **QTY** | RATE KSHS | AMOUNT |
| | **ITEM** | **DESCRIPTION** | | | | KSHS |
| | | **ELEMENT NO-03** | | | | |
| | | **DISPOSAL** | | | | |
| | A | Plastic downpipes;75mm diameter | L.M | 6 | | |
| | B | 10,000 litres plastic Kentank tank or equivalent and approved by IRK Engineer,and fully branded with irk artwork as directed | No | 1 | | |
| | | **TOTAL ELEMENT 03** | | | | |
| | | | | | | |
| | | | **UNIT** | **QTY** | RATE KSHS | AMOUNT |
| | **ITEM** | **DESCRIPTION** | | | | KSHS |
| | | **ELEMENT NO. 04** | | | | |
| | | **FINISHINGS** | | | | |
| | | **Cement and Sand (1:4) Screed and Paving** | | | | |
| | | **FLOOR FINISHES** | | | | |
| | | **Cement and sand (1:4) paving: steel trowelled: on concrete** | | | | |
| | **A** | .40mm thick floors to receive tiles | SM | 10 | | |
| | **B** | Tiling on the floor including water fetching area upto the bay deck as approved by RE | SM | 20 | | |
| | | **12mm Two Coats Lime Plaster with stel Trowel Finished to:** | | | | |
| | C | Internal walls and slab soffit | SM | 35 | | |
| | D | Extenal walls including keying | SM | 10 | | |
| | | **TOTAL ELEMENT 04** | | | | |
| | | | **UNIT** | **QTY** | RATE KSHS | AMOUNT |
| | **ITEM** | **DESCRIPTION** | | | | KSHS |
| | | **ELEMENT NO. 5** | | | | |
| | | **DOORS** | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | **Steel Door** | | | | |
| | **A** | Standard single leaf steel door to the satisfaction of the RE | NO. | 1 | | |
| | | **TOTAL ELEMENT 05** | | | | |
| | | | **UNIT** | **QTY** | RATE KSHS | AMOUNT KSHS |
| | **ITEM** | **DESCRIPTION** | | | | |
| | | | | | | |
| | | **ELEMENT NO.6** | | | | |
| | | **WINDOWS** | | | | |
| | A | 2000x1200mm double leaf steel window as directed by RE | NO | 1 | | |
| | | **TOTAL ELEMENT 06** | | | | |
| | | | | | | |
| | | | **UNIT** | **QTY** | RATE KSHS | AMOUNT KSHS |
| | **ITEM** | **DESCRIPTION** | | | | |
| | | | | | | |
| | | ELEMENT NO.07 | | | | |
| | | **PAINTING AND DECORATING** | | | | |
| | | **Prepare and apply three coats plastic emulsion paint to:** | | | | |
| | | **Internally** | | | | |
| | A. | Plastered walls | SM | 45 | | |
| | | - | | | | |
| | B | Ditto but to the doors and window surfaces as Directed by RE | SM | 10 | | |
| | | **TOTAL ELEMENT 07** | | | | |
| | | | | | | |
| | ITEM | DESCRIPTION | **UNIT** | **QTY** | RATE KSHS | AMOUNT KSHS |
| | | ELEMENT NO.08 | | | | |
| | | **PLUMBING WORKS** | | | | |
| | A | 32mm thick floors screed | SM | 11.6 | | |
| | | **Plumbing (Supply and fix the following)** | | | | |
| | B | ¾" GI pipe | No. | 1 | | |
| | C | ¾" Gate Valve (Peggler) | No. | 1 | | |
| | D | ¾" Bend | No. | 3 | | |
| | E | ¾" Elbow | No. | 4 | | |
| | F | ¾ Tee equal | No. | 3 | | |
| | G | ¾" Union | No. | 1 | | |
| | H | ¾" Stop Cork (Peggler) | No. | 3 | | |
| | I | ¾" Hexagonal nipple | No. | 10 | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | J | ¾" Sockets | No. | 2 | | |
| | K | PVC end-caps 2" | No. | 2 | | |
| | L | PVC end-caps 1½" | No. | 2 | | |
| | M | PVC Tee equal 2" | No. | 2 | | |
| | N | Ditto ½" | No. | 2 | | |
| | O | Reducing socket 2" x ¾" PVC | No. | 2 | | |
| | P | Ditto 1 ½" x ¾" | No. | 2 | | |
| | Q | PVC Adapter ¾" | No. | 2 | | |
| | | | | | | |
| | | **TOTAL ELEMENT 08** | | | | |
| | | | | | | |
| | | SUMMARY | | | | **AMOUNT** |
| | | ELEMENT NO. | | | | KSHS |
| | | 1. SUBSTRUCTURE | | | | |
| | | 2. CONCRETE WORK AND WALLING | | | | |
| | | 3. ROOFING AND RAINWATER DISPOSAL | | | | |
| | | 4. FINISHING | | | | |
| | | 5. DOORS | | | | |
| | | 6. WIDOWS | | | | |
| | | 7. PAINTING AND DECORATION | | | | |
| | | 8. PLUMBING WORKS | | | | |
| | | **SUB TOTAL** | | | | |
| | | **TOTAL CARRIED TO SUMMARY** | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | | **KSHS** |
| | | **FENCING -ADELE** | | | | |
| | A. | **Clearing the site of bushes/trees** | SM | 500 | | |
| | B | Excavate for fencing poles bases from existing ground level and not exceeding 1.50m deep.(225 x 225x500mm deep holes) | NO. | 38 | | |
| | | **Concrete Work** | | | | |
| | | **Mass concrete 1:4: 8-** | | | | |
| | C | 50 mm blinding bed under holes for fencing posts | CM | 0.2 | | |
| | | _ | | | | |
| | | **Reinforced Concrete 1:2:4- 20mm gauge mix in** | | | | |
| | D | 225x225x450 Bases for Angle columns sections | CM | 1.5 | | |
| | | **MILD STEEL TO B.S. 449** | | | | |
| | | **Structural steel welded & Bolted joints** | | | | |
| | E | 75x75x4.5mm Angle column section (Length 2350mm spaced at 3 m c/c) | NO | 48 | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | G | 75x75x5.0mm angle section for bracing at corners and at every 30m span (Length 3600mm ) | NO | 12 | | |
| | | **GATE** | | | | |
| | K | Excavate for sides columns poles bases from existing ground level and not exceeding 1.50m deep.(225 x 225x500mm deep holes) | NO. | 4 | | |
| | | **Concrete Work** | | | | |
| | | **Mass concrete 1:4: 8-** | | | | |
| | M | 50 mm blinding bed under holes for fencing posts | CM | 0.1 | | |
| | N | **Reinforced Concrete 1:2:4- 20mm gauge mix in** | | | | |
| | | 225x225x450 Bases for SHS columns | CM | 0.1 | | |
| | | **MILD STEEL TO B.S. 449** | | | | |
| | | **Structural steel welded & Bolted joints** | | | | |
| | O | 100x100x4.0mm SHS column (Length 2000mm) | NO. | 3 | | |
| | P | 75x75x3.0mm SHS | LM | 28.5 | | |
| | Q | 50x50x3.0mm SHS | LM | 21 | | |
| | | **FENCING WIRE** | | | | |
| | | Barbed wire | | | | |
| | R | Supply and fix Ngombe Double strand Barbed wire 610mtrs, around the perimeter; or equivalent | NO | 2 | | |
| | | **CHAIN LINK** | | | | |
| | S | Supply and fix 3.0mm chain link twisted 3 times at the ends | SM | 220 | | |
| | R | Bind the chain with a binding wire | ITEM | 2 | | |
| | | **Total carried to summary** | | | | |

# ANNEX ii: BOQS-OVO

| | | | | | |
|---|---|---|---|---|---|
| | BOQ FOR BOREHOLE REHABILITATION AND SOLARIZATION WORKS AT OVO BH-TANA RIVER COUNTY | | | | |
| **ITEM** | **DESCRIPTION** | **UNIT** | **QTY** | **RATE** | **AMOUNT (KSHS)** |
| | **ALL PROVISIONAL** | | | | |
| | The contractor to note that the location of the works is in public learning institution thus the works are to be carried out in such a manner that learning is not disrupted | | | | |
| | All the works to be done by a specialist taking care of the existing borehole. | | | | |
| | In case of damage arising from the contractor's negligence, necessary repairs shall be done at the cost of the contractor | | | | |
| | Contractor's mobilization | | | | |
| 1.1 | Mobilization and demolition of contractor's plant and equipment including but not limited to drilling units, tank erection equipment, test pumping equipment, borehole development equipment, materials, personnel and other required supplies. | Item | 1 | | |
| 1.2 | Allow for site clearance and Engineer's inspection to establish the water levels of the borehole | Sum | 1 | | |
| | Rehabilitation of borehole | | | | |
| 1.4 | Carefully remove the defective/broken down submersible pump and inspect to establish the extent of the damage, deliver the damaged pump to IRK TANA RIVER OFFICE | No. | 1 | | |
| | Inspection and cleaning of steel pipe casing | | | | |
| 1.5 | Carefully inspect the existing steel pipe casing and clean them where necessary as directed by the Engineer | Item | 1 | | |
| | De-siltation | | | | |
| | | | | | |
| 1.6 | Allow for de-siltation of the borehole using special equipment to be approved by the Engineer | Item | 1 | | |
| | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| | Disposal of Water | | | | |
| 1.7 | Carefully dispose off water arising from desiltation and other cleaning works | Item | 1 | | |
| | ***Total carried forward*** | | | | |
| | | | | | |
| **ITEM** | **DESCRIPTION** | **UNIT** | **QTY** | **RATE** | **AMOUNT** |
| | | | | | |
| | **Brought forward** | | | | |
| | Submersible Pump | | | | |
| 1.8 | Procure, deliver and install submersible pump capable of output of 2 - 5m3 per hour at 110 - 240H with and including all electrical connections<br>Davis and Shirtliff DSD 5/18, 1.5KW and 2.0HP | No. | 1 | | |
| | Solar panels | | | | |
| 1.10 | Procure, deliver and install new 15No solar panels with a capacity 250W as directed by the Engineer ,the cost should be inclusive of the solar structre | No. | 15 | | |
| | Sunverter | | | | |
| 1.11 | Procure, deliver and carefully install approved sunverter as per Dayliff Sunverter 2 or other equal and approved capable of operating the above specified pump with and including all necessary electrical connections | No. | 1 | | |
| | Float switch | | | | |
| 1.12 | Provide and install float switch and other related accessories as directed | No. | 1 | | |
| 1.13 | Float switch cable | m | 200 | | |
| | Piping works with and including connections where not listed herein below | | | | |
| 1.14 | 63mm diameter HDPE pipe, PN 16 | m | 600 | | |
| 1.15 | PPR Pipe 25mm diameter, PN 12.5 | m | 350 | | |
| | ***Total carried forward*** | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| **ITEM** | **DESCRIPTION** | **UNIT** | **QTY** | **RATE** | **AMOUNT** |
| | **Brought forward** | | | | |
| | HDPE pipe fittings | | | | |
| 1.16 | 63mm diameter nipple | No. | 1 | | |
| 1.17 | Ditto connector | No. | 13 | | |
| 1.18 | Reducing socket | No. | 1 | | |
| 1.19 | 63mm diameter gate valve | No. | 1 | | |
| 1.20 | 63mm diameter non-return valve | No. | 1 | | |
| | PPR pipe fittings | | | | |
| 1.21 | Taps, pegler lockable taps as directed | No. | 3 | | |

| | | | | | |
|---|---|---|---|---|---|
| 1.22 | PPR connectors | No. | 5 | | |
| 1.23 | T junctions, GI Tee | No. | 2 | | |
| 1.24 | Water meter, 1inch | No. | 1 | | |
| | Maintenance and servicing kit | | | | |
| | Water testing | | | | |
| 1.26 | Collect water samples and carry out full water quality analysis (chemical and bacteriological analysis) in a reputable laboratory acceptable to the Engineer and submit water quality test report. | No. | 1 | | |
| | Testing and commissioning | | | | |
| 1.27 | Provide an amount for the construction of water points at ovo primary school and animal water trough at the community point near the kiosk | Sum | 1 | | |
| | *Sub-total 1* | | | | |
| 1.28 | Add Preliminaries associated with the works inclusive of the Performance Bond, Insurance for the works Etc | | | | |
| | *Sub-total 2* | | | | |
| | Add 16% VAT | | | | |
| | **TOTAL (KSHS)** | | | | |

| **2No. TWO DOOR VIP PIT LATRINE AT OVO PRIMARY SCHOOL TANA RIVER COUNTY** | | | | | |
|---|---|---|---|---|---|
| **Item No.** | **Description** | **Qty** | **Unit** | **Rate** | **Total** |
| | **SUBSTRUCTURE (Provisional)** | | | | |
| | **Excavation** | | | | |
| | Excavation including maintaining and supporting sides and keeping free from water, mud and fallen materials by bailing, pumping or otherwise | | | | |
| A | Prepare site by stripping top 200 mm of soil to remove all debris including sand (if any) from site and carting away spoil | M2 | 40.0 | | |
| B | Excavate for foundation strip commencing at stripped levels depth not exceeding 1.50m deep | M3 | 72.0 | | |
| C | Pit excavation commencing at stripped levels depth not exceeding 1.50m deep | M3 | 36.0 | | |
| D | Ditto 1.50 - 3.00 metres deep | M3 | 14.0 | | |
| E | Ditto 3.00 - 4.50 metres deep (Optional) | M3 | 14.0 | | |
| F | Ditto 4.50 - 6.00 metres deep (Optional) | M3 | 14.0 | | |
| G | Extra-over for excavation in rock | M3 | 5.0 | | |
| H | Remove surplus excavated material from site | M3 | 66.0 | | |
| I | Backfill around foundation | M3 | 64.0 | | |

| | | | | | |
|---|---|---|---|---|---|
| | **Filing** | | | | |
| J | 300 mm thick approved hardcore filling spread, well rammed and compacted in 150mm layers to receive concrete surface bed | M3 | 11.0 | | |
| | **Insitu concrete: class 15: mix 1:3:6** | | | | |
| K | 50mm blinding layer under foundations | M2 | 51.0 | | |
| L | 50mm blinding layer on hardcore surfaces | M2 | 42.0 | | |
| | **Total from Substructures Collection 1** | | | | |
| | **Concrete work** | | | | |
| | Reinforced Concrete class 15 | | | | |
| A | Strip foundation | M3 | 4.3 | | |
| | Reinforced Concrete class 25 | | | | |
| B | 100mm thick floor slab with surface steel trowelled smooth | M2 | 52.0 | | |
| C | Allow for pit/squat hole in 100mm thick floor slab | No | 2.0 | | |
| | **Reinforcement** | | | | |
| D | Reinforcement bars (asorted steel) as shown on drawings | Kg | 400.0 | | |
| E | Mesh fabric reinforcement ref. No. A142 laid in floor slab with minimum 150 mm side allowance | m2 | 84.0 | | |
| | **Sawn formwork** | | | | |
| F | Formwork to edges of floor slab girth over 75mm but not exceeding 150mm | M | 44.0 | | |
| G | Formwork to edges of strip footing girth over 75mm but not exceeding 150mm | M | 66.0 | | |
| H | Formwork to edges of strip footing girth over 150mm but not exceeding 2250mm | M | 62.0 | | |
| | **Walling** | | | | |
| I | 400mm Thick coral stone retaining wall in cement and sand mortar (1:3) | M2 | 25.0 | | |
| J | 300mm Thick coral stone foundation walling in cement and sand mortar (1:3) | M2 | 33.0 | | |
| K | 150mm thick masonry wall | M2 | 4.0 | | |
| L | One layer 1000gauge polythene sheet damp proof membrane under beds: 300mm laps | M2 | 40.0 | | |
| M | 200mm wide Bituminous felt damp-proof course | M | 40.0 | | |
| | **Total from Substructures Collection 2** | | | | |
| | | | | | |
| | **Steps** | | | | |
| | **Concrete work** | | | | |
| | Reinforced Concrete class 25 | | | | |
| A | Treads, 300 mm wide | M | 10.0 | | |

| | | | | | |
|---|---|---|---|---|---|
| B | Risers, 150 mm high | M | 9.0 | | |
| C | Open string | M2 | 0.9 | | |
| D | Waist | M2 | 0.6 | | |
| | **Sawn formwork** | | | | |
| E | Risers: girth over 75mm but not exceeding 150mm | M | 8.0 | | |
| F | Open string | M2 | 0.8 | | |
| G | Waist | M2 | 0.6 | | |
| | Cement and sand mortar (1:4) trowelled beds: on concrete: to | | | | |
| H | Treads, 300 mm wide | M | 4.0 | | |
| I | Risers, 150 mm high | M | 4.0 | | |
| J | Open string | M2 | 0.6 | | |
| K | Waist | M2 | 0.4 | | |
| | **Reinforcement** | | | | |
| P | High tensile reinforcement bars in assorted sizes | KG | 180.0 | | |
| | **Total page 3 to Substructures Collection** | | | | |
| | | | | | |
| | **Plinths** | | | | |
| A | 15mm thick cement sand rendering (1:3) to plinths | M2 | 10.0 | | |
| B | Prepare and apply three coats black bituminous paint to rendered plinths externally | M2 | 15.0 | | |
| | **Total from Substructures Collection 3** | | | | |
| | **SUBSTRUCTURES COLLECTION** | | | | |
| | **Total from Collection 1** | | | | |
| | **Total from Collection 2** | | | | |
| | **Total from Collection 3** | | | | |
| | **SUBSTRUCTURES SUB TOTAL TO SUMMARY** | | | | |
| | | | | | |
| | **SUPERSTRUCTURES** | | | | |
| | **Walling** | | | | |
| A | 150mm Thick load bearing solid concrete block walling | M2 | 90.0 | | |
| | 200mm deep x 400mm wide vent block | No | 4.0 | | |
| | ***Wall Coping*** | | | | |
| B | Precast concrete 600 x 300 x 50 mm Thick twice weathered and throated coping jointed and pointed in cement and sand mortar | M | 18.0 | | |
| | **Concrete Work** | | | | |
| | Vibrated reinforced concrete class 25 (1:1.5:3) with 20mm maximum aggregate as described in: | | | | |
| C | Lintels | M3 | 0.4 | | |
| | **Reinforcement** | | | | |

| | | | | | |
|---|---|---|---|---|---|
| D | 8mm Diameter high tensile reinforcement bar | Kg | 20.0 | | |
| E | Ditto but 10mm | Kg | 22.0 | | |
| | **Sawn Formwork to:** | | | | |
| F | Sides and soffits of lintels | M2 | 2.2 | | |
| | **Roofing** | | | | |
| | ***Roof Structure*** | | | | |
| | Sawn celcured cypress timber as described in: | | | | |
| G | 200mm x 15mm Fascia Board | M | 29.0 | | |
| H | l00x50mmRafters | M | 22.0 | | |
| I | 100mm x 50mm wall plate | M | 24.0 | | |
| J | 50 x 50 Purlins | M | 40.0 | | |
| | ***Roof Covering*** | | | | |
| K | 0.5mm color coated Fiberglass corrugated roofing sheets screwed to purlins - Blue in color | M2 | 24.0 | | |
| | **Total from Superstructures Collection 4** | | | | |
| | **Painting and Decorating** | | | | |
| L | Knot prime stop and apply two undercoats and one gloss finishing coat oil paint to fascia board 200- 300 mm wide | M | 26.0 | | |
| | **Doors** | | | | |
| A | 45mm thick Match boarded timber single door, overall size 900x 2100mm high | No | 3.5 | | |
| | **Wrot cypress 1st grade** | | | | |
| B | 150x50mm frame two labours plugged screwed and pellated | M | 20.0 | | |
| C | 50x25mm architrave two labours | M | 20.0 | | |
| D | 25x15mm quadrant one labour | M | 20.0 | | |
| | Supply and fix the following ironmongery to timber with matching screws | | 0.0 | | |
| E | Stainless steel hinges | Pairs | 6.0 | | |
| F | Tower bolt lock | No | 7.0 | | |
| G | Rubber door stop | No | 4.0 | | |
| H | Prepare and apply two undercoats and one finishing coat oil paint to timber door - Blue in Color | M2 | 18.0 | | |
| | **Total from Superstructures Collection 5** | | | | |
| | **Finishes** | | | | |
| | ***Floor Finishes*** | | | | |
| | Cement and sand mortar (1:4)trowelled beds: on concrete: to | | | | |
| A | 32mm floors Trowelled finished | M2 | 25.0 | | |
| B | 100mm diameter Heavy duty uPVC soil and vent pipe 3000mm high fastened to wall with plastic clips at 400c/c with wire grating tied to top of pipe | No | 2 | | |

| | | | | | |
|---|---|---|---|---|---|
| | ***Wall Finishes*** | | 0.0 | | |
| | 15mm cement and sand (1:4) backing; steel trowelled finish | | 0.0 | | |
| D | Walls internally | M2 | 96.0 | | |
| | 12mm lime plaster: steel trowelled finish: on concrete, block work or stonework: to | | | | |
| F | Walls externally | M2 | 40.0 | | |
| | Prepare and apply three coats plastic emulsion paint to: | | | | |
| G | Walls externally | M2 | 40.0 | | |
| H | Extra over keying | M2 | 12.0 | | |
| J | Provide branding and metallic artwork with Islamic Relief Logo and Project details | ITEM | 1 | | |
| | **Total from Superstructures Collection 6** | | | | |
| | **SUPERSTRUCTURE COLLECTION** | | | | |
| | **Total from page 4** | | | | |
| | **Total from page 5** | | | | |
| | **Total from page 6** | | | | |
| | **SUPERSTRUCTURE SUB TOTAL TO SUMMARY** | | | | |
| | | | | | |
| | **SUMMARY** | | | | |
| | **(1) SUBSTRUCTURE** | | | | |
| | **(2) SUPERSTUCTURE** | | | | |
| | **Total** | | | | |
| | **ADD VAT 16%** | | | | |
| | GRAND TOTAL | | | | |

| | BOQ FOR THE CONSTRUCTION OF A WATER KIOSK AT OVO | **UNIT** | **QTY** | **RATE KSHS** | **AMOUNT** |
|---|---|---|---|---|---|
| | **BILL NO: CONSTRUCTION OF WATER KIOSK WITH REINFORCED PLATFORM FOR TANK** | | | | |
| | **A. SUBSTRUCTURES** | | | | |
| | **ELEMENT NO. 01-SUBSTRUCTURE** | | | | |
| | **(ALL PROVISIONAL)** | | | | |
| A | Excavate oversite to remove vegetable soil average 150mm deep;wheel and deposit on site n.e. 100M away in permanent spoils heaps | SM | 12 | | |
| B | Ditto but to a depth of 300mm | CM | 1.8 | | |
| C | Excavate for pad foundation and strip footing not exceeding 1000 mm deep. | CM | 25 | | |
| | **Disposal** | | | | |
| D | Cart away excess excavated material to spoil | CM | 10 | | |
| | **Hardcore** | | | | |
| E | 250mm thick filling: deposit, spread, level and compact: to receive blinding | CM | 3 | | |
| F | 50mm murram blinding to surface of hardcore. | SM | 6 | | |

| | | | | | |
|---|---|---|---|---|---|
| | **Anti-Termite Treatment** | | | | |
| G | Chemical anti-termite treatment executed by Rentokil Laboratoties Limited or equal and approved pest control firm under a ten year gurantee, applied to surface of excavation and floor | SM | 12 | | |
| | **Damp-Proof Membrane** | | | | |
| H | 500mm Gauge polythene damp-proof membrane laid on blinded hardcore with 100mm folded side and end laps (measured net-allow for laps) | SM | 12 | | |
| | **Plain Concrete 1:4:8 mix in:** | | | | |
| G | 50 mm blinding bed under strip footing | CM | 6 | | |
| | **Reinforced Concrete 1:2:4- 20mm gauge mix in** | | | | |
| H | 150 mm floor slab | SM | 12 | | |
| I | 300 mm thick Strip Footing | CM | 2.16 | | |
| J | 600 x150mm thick pavement round the perimeter walling | SM | 1.08 | | |
| | | | | | |
| | **Reinforcement** | | | | |
| | **High Tensile Steel Reinforcement to B.S. 4483** | | | | |
| K | Y12 | NO | 6 | | |
| L | Y10 | NO | 4 | | |
| M | Y8 | NO | 4 | | |
| | **Mesh Fabric Reinforcement to B.S.4483** | | | | |
| N | Mesh reinforcement reference A 142 weighing 2.22kg per square metre laid in bed with 300mm side and end laps (Measured net allow for laps) | SM | 17 | | |
| | **MASONRY** | | | | |
| O | Medium quarry dressed stone walling in cement and sand (1:3)mortar:20 gauge x 25mm wide hoop iron reinforcement and column-wall ties in every alternate course: to | | | | |
| P | 200mm walling in Foundation | SM | 15 | | |
| | **Hessian Based Bituminous Felt Damp-Proof course to B.S.743 type 4A and setting in cement and sand mortar** | | | | |
| Q | under 200mm walls | L.M | 10 | | |
| | **TOTAL ELEMENT 01** | | | | |
| | **DESCRIPTION** | **UNIT** | **QTY** | | |
| ITEM | | | | | |
| | **ELEMENT NO-02** | | | | |
| | **CONCRETE WORK AND WALLING** | | | | |
| | | | | | |
| | **Reinforced Concrete 1:2:4- 20mm gauge mix in** | | | | |
| A | Rings Beams;450x200 | CM | 0.9 | | |
| B | 150mm roof slab and fetching bay | CM | 1.8 | | |
| | **Sawn formwork to** | | | | |
| C | sides and soffits of beams | SM | 9.7 | | |

| | | | | | |
|---|---|---|---|---|---|
| D | Ditto but to sides and of columns | SM | 19.2 | | |
| E | Ditto but including props beneath the roof slab and fetching bay | SM | 12 | | |
| | **Reinforcement** | | | | |
| | **High Tensile Steel for columns, ring beam and top slab Reinforcement to B.S. 4483** | | | | |
| F | Y16mm Bars | NO | 12 | | |
| G | Y10mm Bars | NO | 16 | | |
| H | Y12mm Bars | NO | 15 | | |
| | **Walling** | | | | |
| | **Medium quarry dressed stone walling in cement and sand (1:3)mortar:20 gauge x 25mm wide hoop iron reinforcement and column-wall ties in every alternate course: to** | | | | |
| I | 200mm walling | SM | 25 | | |
| | **TOTAL ELEMENT 02** | | | | |
| | | **UNIT** | **QTY** | RATE KSHS | AMOUNT KSHS |
| **ITEM** | **DESCRIPTION** | | | | |
| | **ELEMENT NO-03** | | | | |
| | **DISPOSAL** | | | | |
| A | Plastic downpipes;75mm diameter | L.M | 6 | | |
| B | 10,000 litres plastic Kentank tank or equivalent and approved by RE | No | 1 | | |
| | **TOTAL ELEMENT 03** | | | | |
| | | | | | |
| | | **UNIT** | **QTY** | RATE KSHS | AMOUNT KSHS |
| **ITEM** | **DESCRIPTION** | | | | |
| | **ELEMENT NO. 04** | | | | |
| | **FINISHINGS** | | | | |
| | **Cement and Sand (1:4) Screed and Paving** | | | | |
| | **FLOOR FINISHES** | | | | |
| | **Cement and sand (1:4) paving: steel trowelled: on concrete** | | | | |
| **A** | .40mm thick floors to receive tiles | SM | 10 | | |
| **B** | Tiling on the floor including water fetching area upto the bay deck as approved by RE | SM | 20 | | |
| | **12mm Two Coats Lime Plaster with stel Trowel Finished to:** | | | | |
| C | Internal walls and slab soffit | SM | 35 | | |
| D | Extenal walls including keying | SM | 10 | | |
| | **TOTAL ELEMENT 04** | | | | |
| | | | | | |
| | | **UNIT** | **QTY** | RATE KSHS | AMOUNT KSHS |
| **ITEM** | **DESCRIPTION** | | | | |
| | **ELEMENT NO. 5** | | | | |

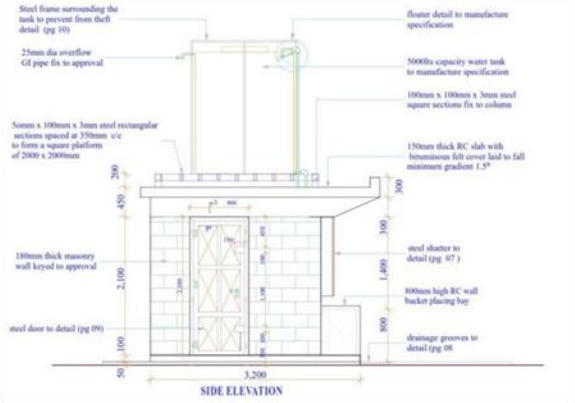
| | | | | | |
|---|---|---|---|---|---|
| | **DOORS** | | | | |
| | **Steel Door** | | | | |
| **A** | Standard single leaf steel door to the satisfaction of the RE | NO. | 1 | | |
| | **TOTAL ELEMENT 05** | | | | |
| | | **UNIT** | **QTY** | RATE KSHS | AMOUNT KSHS |
| **ITEM** | **DESCRIPTION** | | | | |
| | | | | | |
| | **ELEMENT NO.6** | | | | |
| | **WINDOWS** | | | | |
| A | 2000x1200mm double leaf steel window as directed by RE | NO | 1 | | |
| | **TOTAL ELEMENT 06** | | | | |
| | | **UNIT** | **QTY** | RATE KSHS | AMOUNT KSHS |
| **ITEM** | **DESCRIPTION** | | | | |
| | ELEMENT NO.07 | | | | |
| | **PAINTING AND DECORATING** | | | | |
| | **Prepare and apply three coats plastic emulsion paint to:** | | | | |
| | **Internally** | | | | |
| A. | Plastered walls | SM | 45 | | |
| B | Ditto but to the doors and window surfaces as Directed by RE | SM | 10 | | |
| | **TOTAL ELEMENT 07** | | | | |
| ITEM | DESCRIPTION | **UNIT** | **QTY** | RATE KSHS | AMOUNT |
| | ELEMENT NO.08 | | | | |
| | **PLUMBING WORKS** | | | | KSHS |
| A | 32mm thick floors screed | SM | 11.6 | | |
| | **Plumbing (Supply and fix the following)** | | | | |
| B | ¾" GI pipe | No. | 1 | | |
| C | ¾" Gate Valve (Peggler) | No. | 1 | | |
| D | ¾" Bend | No. | 3 | | |
| E | ¾" Elbow | No. | 4 | | |
| F | ¾ Tee equal | No. | 3 | | |
| G | ¾" Union | No. | 1 | | |
| H | ¾" Stop Cork (Peggler) | No. | 3 | | |
| I | ¾" Hexagonal nipple | No. | 10 | | |
| J | ¾" Sockets | No. | 2 | | |
| K | PVC end-caps 2" | No. | 2 | | |
| L | PVC end-caps 1½" | No. | 2 | | |
| M | PVC Tee equal 2" | No. | 2 | | |
| N | Ditto ½" | No. | 2 | | |
| O | Reducing socket 2" x ¾" PVC | No. | 2 | | |
| P | Ditto 1 ½" x ¾" | No. | 2 | | |
| Q | PVC Adapter ¾" | No. | 2 | | |

| | | | | | |
|---|---|---|---|---|---|
| | **TOTAL ELEMENT 08** | | | | |
| | SUMMARY | | | | **AMOUNT** |
| | ELEMENT NO. | | | | KSHS |
| | 1. SUBSTRUCTURE | | | | |
| | 2. CONCRETE WORK AND WALLING | | | | |
| | 3. ROOFING AND RAINWATER DISPOSAL | | | | |
| | 4. FINISHING | | | | |
| | 5. DOORS | | | | |
| | 6. WIDOWS | | | | |
| | 7. PAINTING AND DECORATION | | | | |
| | 8. PLUMBING WORKS | | | | |
| | **SUB TOTAL** | | | | |
| | **TOTAL CARRIED TO SUMMARY** | | | | |

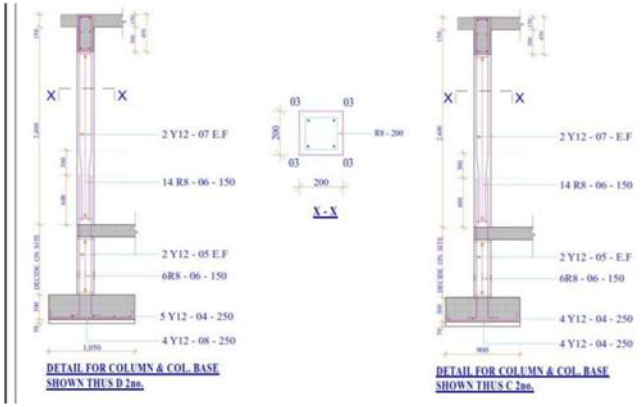
| | | | | | |
|---|---|---|---|---|---|
| | | | | | **KSHS** |
| | **BILL NO.07** | | | | |
| | **FENCING -OVO** | | | | |
| | **(ALL PROVISIONAL)** | | | | |
| A. | **Clearing the site of bushes/trees** | SM | 500 | | |
| B | Excavate for fencing poles bases from existing ground level and not exceeding 1.50m deep.(225 x 225x500mm deep holes) | NO. | 38 | | |
| | **Concrete Work** | | | | |
| | **Mass concrete 1:4: 8-** | | | | |
| C | 50 mm blinding bed under holes for fencing posts | CM | 0.2 | | |
| | **_** | | | | |
| | **Reinforced Concrete 1:2:4- 20mm gauge mix in** | | | | |
| D | 225x225x450 Bases for Angle columns sections | CM | 1.5 | | |
| | | | | | |
| | **MILD STEEL TO B.S. 449** | | | | |
| | **Structural steel welded & Bolted joints** | | | | |
| E | 75x75x4.5mm Angle column section (Length 2350mm spaced at 3 m c/c) | NO | 48 | | |
| G | 75x75x5.0mm angle section for bracing at corners and at every 30m span (Length 3600mm ) | NO | 12 | | |
| | **GATE** | | | | |
| K | Excavate for sides columns poles bases from existing ground level and not exceeding 1.50m deep.(225 x 225x500mm deep holes) | NO. | 4 | | |

| | | | | | |
|---|---|---|---|---|---|
| | **Concrete Work** | | | | |
| | **Mass concrete 1:4: 8-** | | | | |
| M | 50 mm blinding bed under holes for fencing posts | CM | 0.1 | | |
| N | **Reinforced Concrete 1:2:4- 20mm gauge mix in** | | | | |
| | 225x225x450 Bases for SHS columns | CM | 0.1 | | |
| | **MILD STEEL TO B.S. 449** | | | | |
| | **Structural steel welded & Bolted joints** | | | | |
| O | 100x100x4.0mm SHS column (Length 2000mm) | NO. | 3 | | |
| P | 75x75x3.0mm SHS | LM | 28.5 | | |
| Q | 50x50x3.0mm SHS | LM | 21 | | |
| | **FENCING WIRE** | | | | |
| | Barbed wire | | | | |
| R | Supply and fix Ngombe Double strand Barbed wire 610mtrs, around the perimeter; or equivalent | NO | 2 | | |
| | **CHAIN LINK** | | | | |
| S | Supply and fix 3.0mm chain link twisted 3 times at the ends | SM | 220 | | |
| R | Bind the chain with a binding wire | ITEM | 2 | | |
| | **Total carried to summary** | | | | |

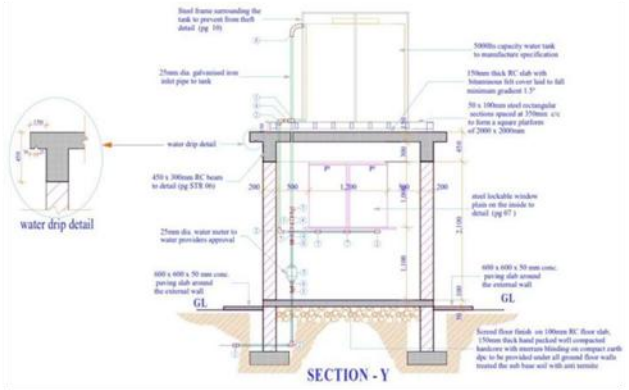
# ANNEX iii: DRAWINGS



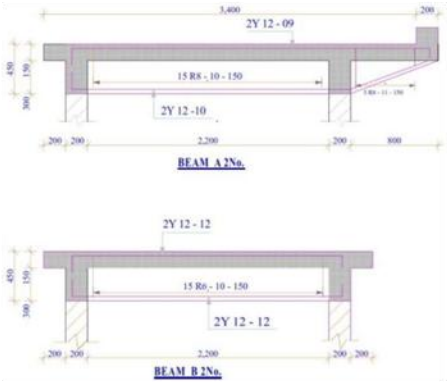

1:1 SIDE ELEVATION 001




1:1 COLUMN DETAILS




1:1 SECTION Y--Y




1:1 BEAM DETAIL

NOTES:

***GENERAL***

1. All dimensions are in mm unless otherwise specified.
2. Dimensions to be read, not scaled. Only figured dimensions to be used.
3. Contractor to check and verify all dimensions on site before commencement of any works.

***CONSTRUCTION***

1. All slabs at ground level to be poured over 1000 gauge polythene sheeting on 50 mm thick murram blinding layer which on 300 hardcore fill.
2. All soil under slabs and all around external foundations to be treated against termites.

***STRUCTURAL.***

1. All black cotton soil to be removed from below all building and paved surfaces.
2. All soil under slabs and all around external foundations to be treated against termites.
3. Building to be clear of black cotton soil within 3m outside the perimeter wall.
4. For all R.C works,refer to structural drawings.
5. Depth of foundation to be determined on the site by structural Engineers Approval.

***MECHANICAL***

1. All plumbing and drainage to comply with local authority regulations.
2. All service ducts to be accessible from all floors .
3. SVP denotes soil vent pipe to be provided at the head of the drainage.
4. P.V permanent ventilation,to be provided on all doors and windows except bathroom and water closet doors.
5. All underground foul and waste drain pipes shall be upvc to comply with Bs 5255.
6. All inspection chamber covers and framing shall be cast iron to comply with Bs 497 table 2 grade A.
7. The storm drain pipe to comply with Bs 556 minimum slope in the drain pipes in 1%.
8. All testing of pipes must be done before plastering.

| prefix | description | date |
|---|---|---|
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DEVELOPMENT NEED

**ISLAMIC RELIEF**

DRAWING TITLE

PROPOSED EYPICAL WATER KIOSK AT 5 WATER TAPS - DELIVER

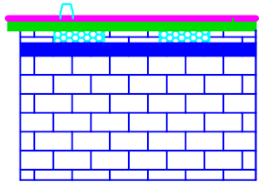
DRAWING TITLE

WORKING DRAWINGS

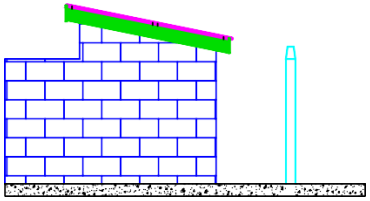
Date APRIL 2014 Scale As shown

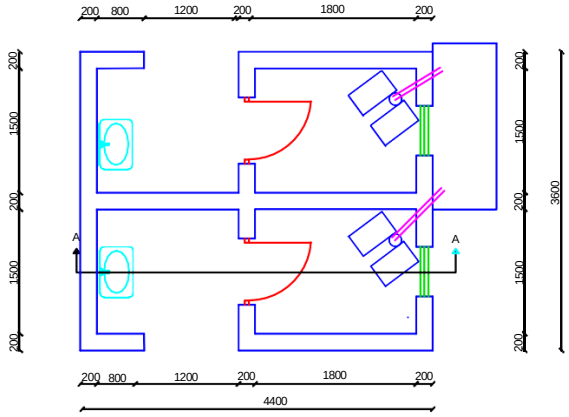
Designed by IV ASS. Drawn by EVANS

## FRONT VIEW

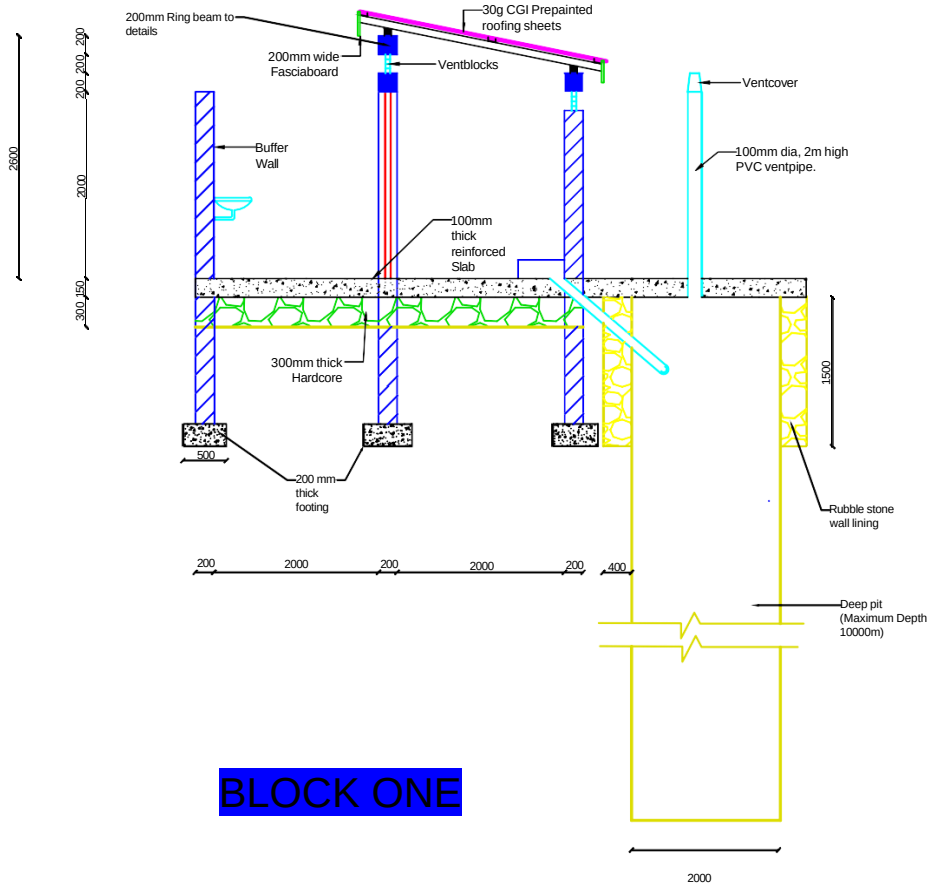


## SIDE VIEW






## SECTIONAL VIEW




BLOCK ONE

| | | | | |
|---|---|---|---|---|
| CLIENT: ISLAMIC RELIEF, KENYA | PROJECT: CONSTRUCTION OF VIP LATRINE BLOCK AT BANGAL | SCHOOL | DRAWING: FLOOR PLAN, | ELEVATIONS AND SECTIONS |