



**Islamic Relief Kenya**

TENDER DOCUMENT FOR

**FENCING, CONSTRUCTION OF 1 NO. WATERPAN,  
1No. ELEVATED STEEL TANK AND 2 NO. LATRINES UTHOLE  
AREA IN WAJIR SOUTH, WAJIR COUNTY**

REF NO: IRK/WAJ/WORKS/BR/003/10/02/2024

ISSUED ON: Thursday, 16<sup>th</sup> October 2024

CLOSING DATE: Wednesday, 30<sup>th</sup> October 2024 **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](mailto: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 program through a local CBO in Mandera District, Northern Kenya. It opened its fully fledged office in March 2006 at the height of drought in the Horn of Africa. Since then, IR has been providing humanitarian and development assistance to vulnerable communities. Over these years it has implemented various development and 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 program 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 Peace-building.

The BRACC project is under implementation in Wajir 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 unemployed urban, and peri urban youths.
4. Strengthened community managed disaster risk reduction capacity.

In order to achieve this, IRK is raising this tender document for fencing, construction of 1 no. water pan, fencing, pumping system, 1 no. elevated steel tank and 2 no. latrines in Uthole farm in Wajir south sub-county, Wajir county to enable increased access to water for the targeted local communities.

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 15mb**) with subject as tender name and reference number: **FENCING, CONSTRUCTION OF 1 NO. WATERPAN, 1No. ELEVATED STEEL TANK AND 2 NO. LATRINES UTHOLE AREA IN WAJIR SOUTH SUB-COUNTY, WAJIR COUNTY**

**TENDER: IRK/WAJ/WORKS/BR/003/10/2024** to be submitted via email [tenders@islamic-relief.or.ke](mailto:tenders@islamic-relief.or.ke) no later than Wednesday, 30<sup>th</sup> October 2024 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 tender'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.

## **INSTRUCTION TO BIDDERS**

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

**TENDER TITLE:** 1 NO. WATER PAN, 1NO. ELEVATED STEEL TANK AND 2 NO. LATRINES IN UTHOLE FARM IN WAJIR SOUTH SUB-COUNTY, WAJIR 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: 1 no. water pan, 1no. elevated steel tank and 2 No: latrines in Uthole farm in Wajir south sub-county, Wajir county.

### **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 authorities.

### **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](mailto: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 or email us at: [complaints@irworldwide.org](mailto: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 of all prospective bidders, who have received the bidding documents & will be binding on them. To allow prospective bidders 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 - 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 April 2024 – 30<sup>th</sup> September 2024)
- 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.

#### **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)  |                               |
| 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. |    |

|          |  |   |    |
|----------|--|---|----|
| <b>6</b> | 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 |
|          | <b>TOTAL</b>                                 | <b>100</b>  |    |

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**

| <b>No.</b> | <b>Description</b>   |  | <b>Maximum</b> |
|------------|--|--|----------------|
| <b>1</b>   | Certified Bank statement for the past six months.                                | Certified bank statement for 6 months.         | 25             |
| <b>2</b>   | Evidence of a Certified letter of credit from the reputable from reputable bank. | Certified letter (signed & stamped) of credit. | 25             |
|            | <b>TOTAL</b>   |  | <b>50</b>      |

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

### **Tender Schedule**

| <b>Task</b>           | <b>Tentative Tender Schedule</b>                  |
|-----------------------|---|
| Advertising of tender | 16th October 2024                                 |
| Closing of tender     | Wednesday, 30 <sup>th</sup> October 2024 11:00 am |
| Opening of tender     | Wednesday, 30 <sup>th</sup> October 2024 11:00 am |
| Evaluation            | 4th – 5th November 2024                           |
| Award                 | 6 <sup>th</sup> November 2024                     |



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**MANDATORY QUESTIONNAIRE****A: Organization and Contact Details**

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

**Name of Owners**

| <b>Name</b> | <b>ID/Passport No.</b> | <b>Nationality</b> |
|-------------|------------------------|--------------------|
|             |                        |                    |
|             |                        |                    |

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## DETAILS FOR CONTACT PERSON

Contact details for enquiries about this PQQ/Business Issues

|                      |  |
|----------------------|--|
| <b>Name of Staff</b> |  |
| <b>Address</b>       |  |
| <b>Post Code</b>     |  |
| <b>Town</b>          |  |
| <b>Phone</b>         |  |
| <b>Mobile</b>        |  |
| <b>Email</b>         |  |

### 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.

| <b>Has your organization or any directors or partner or any other person who has powers of representation, decision or control been convicted of <u>any of the following offences?</u></b> | <b>Answer</b> |
|--|---------------|
| (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.

| <b><u>Is any of the following true of your organization?</u></b>  |  |
|---|--|
| (a) <u>Is bankrupt</u> or under receivership or bankruptcy restrictions order made against the organization |  |
| (b) <u>Is insolvent</u> ,   |  |

|   |  |
|---|--|
| (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? |  |
| <b>Has your organization</b>  |  |
| (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

|                               |                    |
|-------------------------------|--------------------|
| <i>Bid Value for the Work</i> | <i>Kshs.</i> _____ |
| <i>Payment Terms</i>          |                    |
| <i>Duration of Delivery</i>   |                    |
| <i>Remarks</i>                |                    |

#### E - Financial

|          |  |  |
|----------|--|--|
| <b>1</b> | <b>BANK INFORMATION</b>  |  |
| 1.1      | <i>Bank</i>  |  |
|          | <i>Branch</i>  |  |
|          | <i>Account Name</i>  |  |
|          | <i>Account Number</i>  |  |
|          | <i>Swift Code</i>  |  |
|          | <i>Letter From Bank Confirming Account &amp; Credit Facility</i> |  |

|           |  |  |
|-----------|--|--|
| <b>2.</b> | <p>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.</p> <p style="text-align: center;"><b>FORM COMPLETED BY</b></p> |  |
| 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: \_\_\_/\_\_\_/2024

Official Stamp:

## **ANNEX I: B.O.Q**

Islamic Relief Kenya  
Kirichwa Road  
P.O Box 417-00200, KNH  
Nairobi, Kenya 3



Tel: 0727531220/0734740074  
Email: info@islamic-relief.or.ke  
Ref:  
Date.....

**BILLS OF QUANTITIES FOR WATERPAN, FENCING, LATRINE, PUMPING SYSTEM AND ELEVATED STEEL TANK WORKS AT UTHOLE FARM**

| ITEM     | DESCRIPTION  | UNIT | QTY  | RATE | AMOUNT |
|----------|--|------|------|------|--------|
| <b>1</b> | <b>BILL No.1: PROJECT SIGNBOARD</b>  |      |      |      |        |
| 1.1      | Provide, fabricate and install MS Signboard (1.5mx1.5m) raised 1.5m above ground complete with appropriate paintwork/artwork, Islamic Relief Logo and Project details on either side. Artwork to be done via stencil pasting and not freehand as shall be directed by the Engineer.                                | Item | 1    |      |        |
|          | <b>TOTAL FOR PROJECT SIGNBOARD TO BE CARRIED FORWARD TO THE GRAND SUMMARY</b>  |      |      |      |        |
| ITEM     | DESCRIPTION  | UNIT | QTY  | RATE | AMOUNT |
| <b>2</b> | <b>BILL No.2: FENCING WORKS (112mx82m water pan compound)</b>  |      |      |      |        |
| 2.1      | Site Clearance and setting out   | SM   | 9109 |      |        |
| 2.2      | Excavate post holes of size 300mm diameter and 750mm deep to receive concrete poles.   | No.  | 132  |      |        |
| 2.3      | Supply and fix precast concrete posts of size 125x 125mm and 3m long/high inclusive of slant length of concrete grade C-20 placed at 3 meters apart c/c with 6 through holes for wire or bolt. The slant height to be max 0.45m in length at an angle of 45deg. The insitu mass concrete surround to be compacted. | NO.  | 132  |      |        |
| 2.4      | Ditto but 125mmx100mm and 2.4m long precast concrete strut posts of grade C-20 placed at corners and after every 5 poles (15m) and ditto   | No.  | 56   |      |        |
| 2.5      | Provide, place, compact and vibrate 1:2:4 concrete to the post holes as per drawing.   | CM   | 5    |      |        |
| 2.6      | Provide and fix heavy gauge 14 chain link fences, (18m long roll) 2.1m/7ft high to be fitted with appropriate strainers on the posts.  | SM   | 811  |      |        |

|      |  |     |      |  |  |
|------|--|-----|------|--|--|
| 2.7  | Provide and fix 6 rounds heavy gauge 16 barbed wire (610m long roll) with 3 rows at top slant of the posts and the 3 rows along the straight vertical length.  | M   | 2318 |  |  |
| 2.8  | Provide, place, compact and vibrate insitu 1:3:6 mass concrete to the base of the Chain-link within 100mm above the existing ground level.   | CM  | 7    |  |  |
| 2.9  | Construct 300mmx300mmx2500mm long reinforced concrete gate columns. Concrete surfaces to be fully plastered and painted with two coats gloss paint (perch blue) to Engineer's approval.  | No. | 2    |  |  |
| 2.10 | Provide materials, fabricate and install purpose made steel grided double leaf security gate overall size 5000x2000mm high in two equal opening leaves each size 2500x2000mm high with external frame of 50x50x3mm SHS spaced 1000mm c/c vertically and 1250mm c/c horizontally both internally and externally. Internal vertically bracings of 25x25x3mm spaced @150mm c/c horizontally all fixed to external frame by welding including all hinged joints. A pedestrian door 900mmx 1900mm high to be assembled, welded to shape and fixed to position on the right eave of the gate. Provide 250mm wide MS strip across the entire gate horizontally. Complete Gate finished with heavy gauge wire mesh welded on the surface and locking devices to be supported by RC Columns specified above. All to be painted with two coats of approved primer and finished with final coat first grade gloss paint (perch blue). All to design drawing specifications. | No. | 1    |  |  |
| 2.11 | Allow for contingencies.   | LS  | 1    |  |  |
|      | <b>TOTAL FOR FENCING WORKS TO BE CARRIED OVER TO GRAND SUMMARY</b>   |     |      |  |  |

|          |   |    |      |  |  |
|----------|---|----|------|--|--|
| <b>3</b> | <b>BILL No.3: EXCAVATION OF WATER PAN AND PROVISION OF INTAKE STRUCTURE</b>   |    |      |  |  |
| 3.1      | Allow for mobilization and demobilization of all machineries, equipment and personnel to site   | LS | 1    |  |  |
| 3.2      | Clear site of all trees, tree stumps, shrubs and grass commencing from ground level n.e 300mm deep and dispose off the construction site as directed. | CM | 1981 |  |  |

|      |   |     |        |  |  |
|------|---|-----|--------|--|--|
| 3.3  | Commence reservoir excavation from the stripped level to achieve a volume of 30,000m <sup>3</sup> as per designed drawing plans and sections with side slopes of 2:1 (90mx68m*7m, L*W*Depth) with suitable selected materials, cart away to form the embankment or dispose as may be directed by the water Engineer | CM  | 30,000 |  |  |
| 3.4  | Allow for placing, compaction and joining with mortar a 150mm riprap on the inlet channel as directed by the engineer and to the design standard  | CM  | 8      |  |  |
| 3.5  | Excavate for 6m wide inlet from silt trap with a slope 2:1 from ground surface and dispose / reuse excavated materials as directed by the Engineer  | CM  | 61     |  |  |
| 3.6  | Excavate for silt trap measuring 12m by 20m with side slope 2:1 to a depth of 1.5m from ground surface and dispose / reuse excavated materials as directed by the Engineer  | CM  | 360    |  |  |
| 3.7  | Allow for placing, compaction of 150mm riprap on the silt trap wall, base and inlet to the pan buttress wall to the design specification and under supervision of the Engineer.   | CM  | 67     |  |  |
| 3.8  | Provide intake structure (0.75m*0.75m*3m-L*W*H) C/W with 2.5" 35M GI piping to the surface pump and connect with priming connections as per engineer's instruction  | LS  | 1      |  |  |
| 3.9  | Supply and fix concrete column posts of size 200mmx 200mm and 1000mm high of concrete grade C-20 for suction pipe every 6m from pump suction to elbow in water pan  | CM  | 2      |  |  |
| 3.10 | Excavate in the ground for above supporting concrete column 300mm*300mm*600mm holes   | CM  | 0.1    |  |  |
| 3.11 | Provide, place, compact and vibrate 1:2:4 concrete to the column holes.   | CM  | 1      |  |  |
| 3.12 | Place bolts and clamps to hold 3-inch GI pipe in place on the above columns   | Pcs | 3      |  |  |
| 3.13 | Allow for contingencies.  | LS  | 1      |  |  |
|      | <b>TOTAL FOR WATER PAN TO BE CARRIED OVER TO GRAND SUMMARY</b>  |     |        |  |  |

| ITEM     | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|----------|--|------|-----|------|--------|
| <b>4</b> | <b>BILL No. 4 SUPPLY AND INSTALLATION OF SURFACE PUMP ON CAGED PLINTH C/W SOLAR POWERING SYSTEM</b>  |      |     |      |        |
| 4.1      | Clearing any vegetation or obstacle for the pump plinth and solar structure section  | SM   | 147 |      |        |
| 4.2      | Excavation for pump base of 1m depth; length 1.1m and width 1m   | CM   | 1   |      |        |
| 4.3      | Provide reinforced concrete pump plinth of dimensions 0.75m height, 0.8m length and 0.75m width; raised 10cm above surrounding ground level (located under the solar panels structure) | LS   | 1   |      |        |



|      |  |     |   |  |  |
|------|--|-----|---|--|--|
| 4.4  | Provide set of anchoring bolts for the pump plinth as per pump dimensions  | PC  | 1 |  |  |
| 4.5  | Provide a cage from 1" SHS heavy duty of dimensions L*W*H=0.75M*0.8M*0.75M and heavy gauge mesh wire with a lockable lid at the top to for shelter from harsh weather and paint as per engineer's instruction. | PC  | 1 |  |  |
| 4.6  | Supply and install solar panel holding structure c/w control panel box with beams and SHS supports to hold the solar panels and withstand the wind loads   | LS  | 1 |  |  |
| 4.7  | Supply and install horizontal surface pump complete with controller that can do 15m <sup>3</sup> /hr at 30m head such as pedrollo FCR15/2 3.0kW pump or equivalent.  | PC  | 1 |  |  |
| 4.8  | Supply and install solar panels 18No. 350watts solar panels or equivalent that can support the pumping system voltage and current plus its safety factor   | LS  | 1 |  |  |
| 4.9  | Excavate and backfill pipeline trench (after laying of pipe) 450mm wide and between 0.6m and 1.5m deep. For suction line to water pan pump. Cost to include excavations in rocky formations.                   | M   | 6 |  |  |
| 4.10 | Provide and lay GI 2.5" line from water pan piping to pump c/w assorted fittings and other accessories   | M   | 6 |  |  |
| 4.11 | Provide GI pipes and fittings bypass to assist in priming pump.  | Pcs | 1 |  |  |
| 4.12 | Provide 2" gate valve and water meter 2" complete with fittings on delivery line connecting to HDPE line.  | Pcs | 1 |  |  |
| 4.13 | Provide 2.5" foot valve with sieve and fittings for suction side   | Pcs | 1 |  |  |
| 4.14 | Provide 2.5" GI Non return valve with fittings for suction and delivery lines  | M   | 2 |  |  |
| 4.15 | Supply and install outlet piping to join to the 90mm HDPE pipe delivering water to the raised tank   | LS  | 1 |  |  |
| 4.16 | Allow for contingencies.   | LS  | 1 |  |  |
|      | <b>TOTAL FOR SOLAR POWERED PUMPING SYSTEM TO BE CARRIED OVER TO GRAND SUMMARY</b>  |     |   |  |  |

| ITEM       | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|------------|--|------|-----|------|--------|
| <b>5</b>   | <b>BILL No. 5 IRRIGATION STEEL WATER TANK -24 CUBIC ON 9M TOWER FOR IRRIGATION</b>                             |      |     |      |        |
|            | Supply, deliver to site, fabricate and install to position the following components of the Elevated Steel Tank |      |     |      |        |
| <b>5.1</b> | <b>Pressed steel tank</b>  |      |     |      |        |

|            |   |      |    |  |  |
|------------|---|------|----|--|--|
|            | Fabricate, supply and erect on an elevated steel tower a pressed Hot-dip Galvanized steel section tank, effective capacity 24m <sup>3</sup> of 6mm thick panels elevated at 9m height tower complete with steel roof cover 3mm sheets, internal bracing, brackets, access cover and internal and external ladder, calibrated level indicator, fasteners, threaded nozzles, sealants and lockable manhole. Tank to be painted with two coats of non-toxic black bituminous paint internally and one coat of grey primer and two coats of silver aluminum externally. The tank & tower to strictly follow the drawing and have allowance for future expansion to increase capacity. Member Specifications as per drawings | CM   | 24 |  |  |
| <b>5.2</b> | <b>9M High Tower</b>  |      |    |  |  |
|            | Provide shop drawings, fabricate, deliver and erect a 9m high steel tower to BS 449 above foundation level steelwork complete with primer and aluminum paint to carry 24m <sup>3</sup> steel tank. The tower to comprise of UC columns, angle bracings, chequered plate platform and beams, access cat ladder and railing on the platform and fixtures necessary for erection.  | ITEM | 1  |  |  |
| <b>5.3</b> | <b>Steel Tank Branding</b>  |      |    |  |  |
|            | 4 plates to be branded with the provided organizational logo and wordings   | ITEM | 1  |  |  |
| <b>5.4</b> | <b>GI pipework</b>  |      |    |  |  |
|            | Supply, deliver and install 3" dia G.I class B pipe for the inlet work, outlet, washout and overflow for the 24m <sup>3</sup> steel water tank on 9m steel tower. Rate to include connection to the tank by pass pipe, inlet gate valves and all necessary fittings including fasteners and anchor blocks.  | ITEM | 1  |  |  |
| <b>5.5</b> | <b>Concrete Foundation</b>  |      |    |  |  |
| A          | Excavate for tank tower foundation, spread and level the excavated materials and stack surplus as directed for re-use: Depth to be determined on site   | CM   | 31 |  |  |
| B          | Provide C15 blinding concrete to foundation and ground beam   | SM   | 26 |  |  |
| C          | Supply and place reinforced concrete class 20/25 with D12 placed at 150c/c both way at bottom and sides to foundation for tank tower, for underground tie beam and 8Y16 for stub column bases: Cost to include reinforcement bars as specified measured net   | CM   | 25 |  |  |
| <b>5.6</b> | <b>Piping to and fro base of steel tank for irrigation water</b>  |      |    |  |  |
| A          | Excavate and backfill pipeline trench (after laying of pipe) 450mm wide and between 0.6m and 1.5m deep. To supply water to farm. Cost to include excavations in rocky formations.   | M    | 10 |  |  |
| B          | Provide and lay HDPE pipe PN 6 DN 90 delivery line from elevated steel tank to 90MM HDPE pipe at farm c/w assorted fittings and other accessories   | M    | 10 |  |  |

|   |   |            |     |  |  |
|---|---|------------|-----|--|--|
| C | Excavate and backfill pipeline trench (after laying of pipe) 450mm wide and between 0.6m and 1.5m deep for delivery of water to elevated steel tank from pump. Cost to include excavations in rocky formations. | M          | 262 |  |  |
| D | Provide and lay HDPE pipe PN 8 DN 90 delivery line from water pan pump to steel tank c/w assorted fittings and other accessories  | M          | 262 |  |  |
| E | Allow for contingencies, commissioning and testing to full operationalization of the tank for use by the community.   | LS         | 1   |  |  |
|   | <b>TOTAL FOR IRRIGATION TANK TO BE CARRIED FORWARD TO GRAND SUMMARY</b>   | <b>Ksh</b> |     |  |  |

| <b>6 BILL No. 6 CONSTRUCTION OF 2No. LATRINE BLOCKS</b> |  |             |            |             |              |
|---|--|-------------|------------|-------------|--------------|
| <b>ITEM</b>   | <b>DESCRIPTION</b>   | <b>UNIT</b> | <b>QTY</b> | <b>RATE</b> | <b>TOTAL</b> |
| <b>6.1</b>  | <b>SUBSTRUCTURES WORKS (All Provisional)</b>   |             |            |             |              |
| <b>6.1.1</b>  | <b>Site Clearance</b>  |             |            |             |              |
|   | Clear over site off grass, shrubs and all vegetation; away as directed.  | SM          | 8          |             |              |
| <b>6.1.2</b>  | <b>Excavations</b>   |             |            |             |              |
| A   | Excavate over site to reduce levels commencing from stripped level average 300mm and spread on site average 10metres away      | CM          | 3          |             |              |
| B   | Excavate for strip foundation starting from reduced level not exceeding 1.0m deep and cart away as directed                    | CM          | 6          |             |              |
| C   | Return, fill -in and ram selected excavated material   | CM          | 6          |             |              |
| D   | Remove and cart away from site surplus excavate material as directed   | CM          | 3          |             |              |
| <b>6.1.3</b>  | <b>Disposal of Waste</b>   |             |            |             |              |
|   | Keep all excavations free from all waste including spring and running water  | ITEM        | 1          |             |              |
| <b>6.1.4</b>  | <b>Planking and Strutting</b>  |             |            |             |              |
|   | Uphold the sides of all excavations  | ITEM        | 1          |             |              |
| <b>6.1.5</b>  | <b>Filling</b>   |             |            |             |              |
| A   | Hard core filing in making up levels not exceeding 300mm thick, depositing and compacting in layers of 125mm maximum thickness | SM          | 8          |             |              |
| B   | 50mm thick murrum blinding to surfaces of fill   | SM          | 8          |             |              |
| <b>6.1.6</b>  | <b>Anti-termite treatment</b>  |             |            |             |              |
|   | Termidoer or other equal approved insecticide with 10-year guarantee to surfaces of fill and tops of foundation                | SM          | 8          |             |              |
| <b>6.1.7</b>  | <b>Blinding</b>  |             |            |             |              |
|   | 50mm C15 Concrete blinding to foundation   | SM          | 6          |             |              |
| <b>6.1.8</b>  | <b>Concrete</b>  |             |            |             |              |
|   | Vibrated in situ class 20/20 concrete  |             |            |             |              |
| A   | strip footing  | CM          | 2          |             |              |

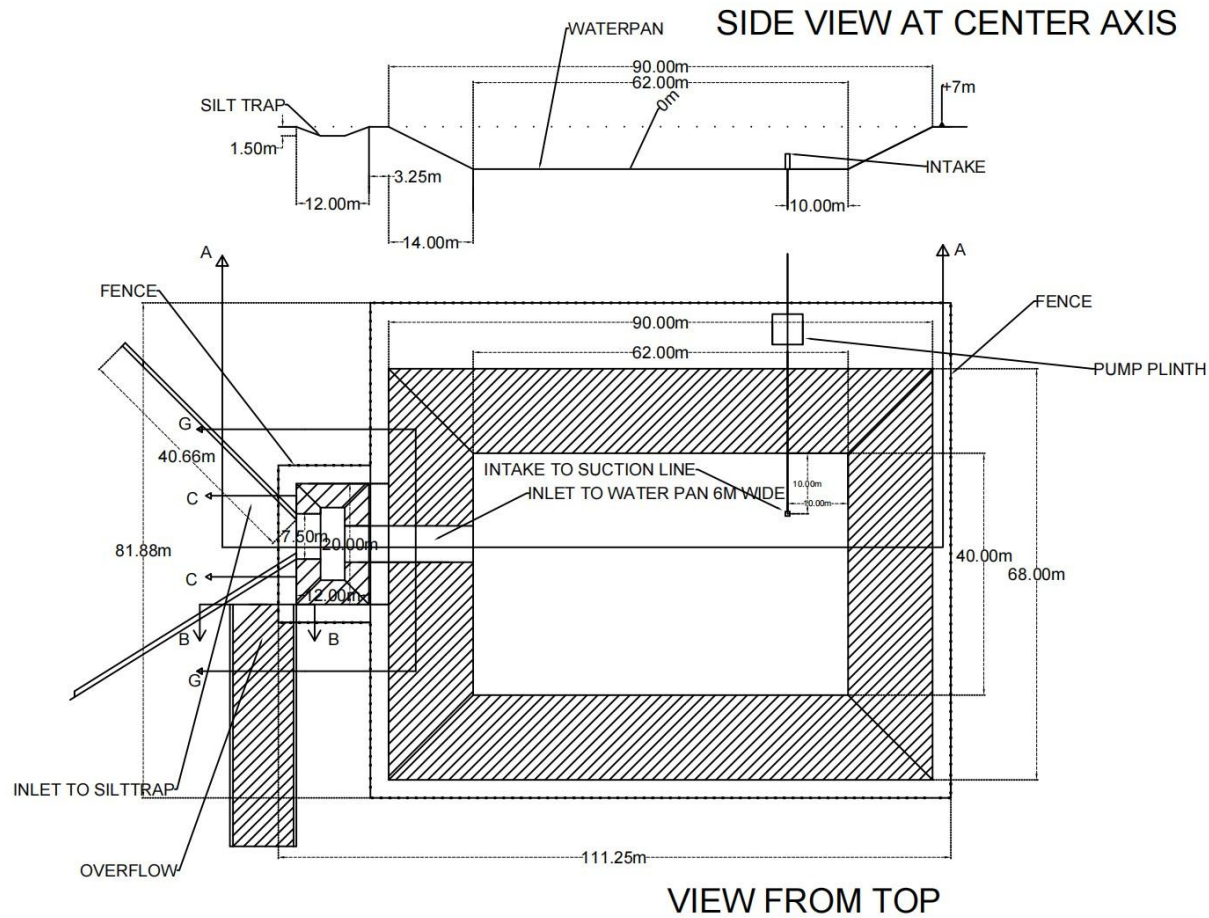
|               |   |    |    |  |  |
|---------------|---|----|----|--|--|
| B             | 100mm thick bed including ramp  | CM | 2  |  |  |
| <b>6.1.9</b>  | <b>Reinforcement</b>  |    |    |  |  |
|               | Bars, high yield steel, cold worked to BS4461, including bends, hooks, tying wire and distance block  |    |    |  |  |
| A             | 10mm bars   | KG | 38 |  |  |
| <b>6.1.10</b> | <b>Fabric BS4483</b>  |    |    |  |  |
|               | Reference A142 mesh 200*200mm weight 2.22kgs per square meter (measure net-no allowance made for laps (including bends tying wire and distance blocks)) | SM | 8  |  |  |
| <b>6.1.11</b> | <b>Formwork</b>   |    |    |  |  |
|               | Sawn formwork to in situ concrete as described: -   |    |    |  |  |
| A             | To sides: vertical or battering of strip foundations  | SM | 6  |  |  |
| B             | Edges of ground floor slab; 75 to 150mm wide  | LM | 12 |  |  |
| <b>6.1.12</b> | <b>Walling</b>  |    |    |  |  |
|               | 200mm thick approved local natural stone; roughly squared to foundation walling; bedding and jointing in cement sand (1:3) mortar                       | SM | 11 |  |  |
| <b>6.1.13</b> | <b>Damp proofing</b>  |    |    |  |  |
|               | Polythene; 1000 gauge, 150mm laps (no allowance made to laps), horizontal; 1 No. layer laid on murrum blinding  | SM | 7  |  |  |
|               | <b>TOTAL FOR SUBSTRUCTURES TO BE CARRIED TO SUMMARY</b>   |    |    |  |  |
| <b>6.2</b>    | <b>SUPERSTRUCTURES</b>  |    |    |  |  |
| <b>6.2.1</b>  | Vibrated Insitu concrete reinforced class 20/20 concrete  |    |    |  |  |
|               | Beams   | CM | 1  |  |  |
| <b>6.2.2</b>  | <b>Reinforcement</b>  |    |    |  |  |
|               | Bars; high yield steel; cold worked to B.S 4461 including bends, hooks, tying wire and distance blocks  |    |    |  |  |
| A             | 8mm bars  | KG | 6  |  |  |
| B             | 10mm bars   | KG | 14 |  |  |
| <b>6.2.3</b>  | <b>Sawn formwork to in situ concrete as described: -</b>  |    |    |  |  |
| A             | To sides and soffits of beams   | SM | 5  |  |  |
| <b>6.2.4</b>  | <b>Walling</b>  |    |    |  |  |
| A             | 200mm thick approved local natural stone; roughly squared to foundation walling; bedding and jointing in cement sand(1:3) mortar                        | SM | 26 |  |  |
| B             | 200mm vent block walling  | SM | 1  |  |  |
|               | <b>TOTAL FOR SUPERSTRUCTURES (FRAME/WALLING) CARRIED TO SUMMARY</b>   |    |    |  |  |
| <b>6.0</b>    | <b>ROOF CONSTRUCTION</b>  |    |    |  |  |
| <b>6.3.1</b>  | <b>Roof Covering</b>  |    |    |  |  |
|               | Galvanized corrugated sheet roofing; 30 gauge; pre-painted  |    |    |  |  |
| A             | Roof covering not exceeding 450mm from horizontal fixing to timber structure (m/s) with roofing nails and neoprene washer, j bolts, nuts and caps       | SM | 7  |  |  |
| <b>6.3.2</b>  | <b>Carpentry</b>  |    |    |  |  |

|              |   |      |    |  |  |
|--------------|---|------|----|--|--|
|              | <i>The following in sawn cypress all provisional</i>  |      |    |  |  |
| A            | 100 x 50mm rafters  | LM   | 6  |  |  |
| B            | 100 X 50mm wall plate rag bolted at 1200mm centers with 12mm diameter bolts(m/s)  | LM   | 8  |  |  |
| C            | 75x 50mm sawn cypress purlins   | LM   | 10 |  |  |
|              | <i>Wrot cypress, prime grade</i>  |      |    |  |  |
| D            | 200 x 25mm thick fascia board   | LM   | 11 |  |  |
| E            | Apply gloss paint to Fascia; 200 to 300mm girth(external)   | LM   | 11 |  |  |
|              | <b>TOTAL FOR ROOF CONSTRUCTION CARRIED TO SUMMARY</b>   |      |    |  |  |
| <b>6.4</b>   | <b>DOORS</b>  |      |    |  |  |
| <b>6.4.1</b> | <b>Timber doors</b>   |      |    |  |  |
| A            | 50mm thick semi-solid cored flush door leaf size 820 x 2060mm overall (plywood finished for painting)   | No.  | 2  |  |  |
| B            | Rubber door stop complete with 38mm rawl bolt   | No.  | 2  |  |  |
| C            | Iron tower bolts fixed on inside and outside faces of doors   | No.  | 4  |  |  |
| D            | Prepare and apply three coats oil paint mahogany/varnish or other equal and approved to general surface of doors  | SM   | 7  |  |  |
| E            | Door frame c/w with 3 No. hinges for the above doors  | No.  | 2  |  |  |
|              | <b>TOTAL FOR DOORS CARRIED TO SUMMARY</b>   |      |    |  |  |
| <b>6.5</b>   | <b>FINISHES</b>   |      |    |  |  |
| <b>6.5.1</b> | <b>Wall finishes</b>  |      |    |  |  |
|              | Plaster; 12mm thick 2No. coat work, 9mm first coat of cement sand (1:6); 3mm second coat of cement and lime putty (1:10); steel trowelled to concrete or brickwork base generally to: - |      |    |  |  |
| A            | Walls; internal & external  | SM   | 73 |  |  |
| <b>6.5.2</b> | <b>Floor finishes</b>   |      |    |  |  |
|              | 38mm thick one coat backings; steel trowelled smooth to concrete base finished with red oxide cement to floors level  | SM   | 12 |  |  |
| <b>6.5.3</b> | <b>Painting and decoration</b>  |      |    |  |  |
| A            | Plastered wall and beams  | SM   | 73 |  |  |
| <b>6.5.4</b> | <b>Islamic Relief branding artwork</b>  |      |    |  |  |
|              | Branding with Islamic relief Logo and project details as directed   | ITEM | 1  |  |  |
|              | <b>TOTAL FOR FINISHES CARRIED TO SUMMARY</b>  |      |    |  |  |
| <b>6.6</b>   | <b>PIT EXCAVATION AND PLUMBING</b>  |      |    |  |  |
| <b>6.6.1</b> | <b>Excavation and earthworks</b>  |      |    |  |  |
| A            | Clear the site of the proposed works of all vegetation  | SM   | 1  |  |  |
| B            | Excavate oversite n.e 1.50m deep from reduced level   | CM   | 3  |  |  |
| C            | Ditto 1.5-3.0 deep  | CM   | 3  |  |  |
| D            | Ditto 3.0-4.5 deep  | CM   | 3  |  |  |
| E            | Ditto 4.5-6.0 deep  | CM   | 3  |  |  |
| F            | Ditto 6.0-7.5 deep  | CM   | 3  |  |  |
| G            | Ditto 7.5-9.0 deep  | CM   | 3  |  |  |
| <b>6.6.2</b> | <b>Rubble stone walling</b>   |      |    |  |  |

|              |   |      |    |  |  |
|--------------|---|------|----|--|--|
|              | 400mm thick rubble wall lining for pit to a maximum depth of 1.5m | SM   | 6  |  |  |
| <b>6.6.3</b> | <b>RC cover slab</b>  |      |    |  |  |
| A            | 100mm thick C20 Concrete slab                                     | CM   | 1  |  |  |
| B            | Formwork to edges of slab   | LM   | 6  |  |  |
| C            | Manhole cover   | 1    | 1  |  |  |
| D            | 10mm bars reinforcement   | KG   | 14 |  |  |
| <b>6.6.4</b> | <b>Plumbing Installation</b>                                      |      |    |  |  |
| A            | 150mm waste pipe connected to pit                                 | LM   | 2  |  |  |
| B            | 100mm vent pipe complete with vent cover                          | LM   | 1  |  |  |
| C            | Handwash basin complete with pipe connection to squat hole        | Sets | 1  |  |  |
| D            | Bowl complete with pipe connection for squat hole                 | Sets | 1  |  |  |
|              | <b>TOTAL FOR FINISHES CARRIED TO SUMMARY</b>                      |      |    |  |  |
|              | <b>SUMMARY FOR CONSTRUCTION OF 2No. TWIN LATRINE BLOCK</b>        |      |    |  |  |
| <b>ITEM</b>  | <b>DESCRIPTION</b>  |      |    |  |  |
| <b>6.1</b>   | SUBSTRUCTURE  |      |    |  |  |
| <b>6.2</b>   | FRAME WALLING   |      |    |  |  |
| <b>6.3</b>   | ROOFING   |      |    |  |  |
| <b>6.4</b>   | DOORS   |      |    |  |  |
| <b>6.5</b>   | FINISHES  |      |    |  |  |
| <b>6.6</b>   | PIT EXCAVATION  |      |    |  |  |
|              | <b>SUBTOTAL FOR 1No. LATRINE BLOCK</b>                            |      |    |  |  |
|              | <b>TOTAL FOR 2No. LATRINE BLOCKS</b>                              |      |    |  |  |

| <b>GRAND SUMMARY OF PROJECT</b> |   |  |  |  |              |
|---------------------------------|---|--|--|--|--------------|
| <b>COMPONENTS</b>               |   |  |  |  |              |
| <b>BILL NO.</b>                 | <b>DESCRIPTION</b>  |  |  |  | <b>TOTAL</b> |
| 1                               | PROJECT SIGNBOARD   |  |  |  |              |
| 2                               | FENCING WORKS   |  |  |  |              |
| 3                               | EXCAVATION OF WATER PAN AND PROVISION OF INTAKE STRUCTURE   |  |  |  |              |
| 4                               | SUPPLY AND INSTALLATION OF SOLAR POWERED SURFACE PUMP   |  |  |  |              |
| 5                               | CONSTRUCTION OF 1No. ELEVATED STEEL TANKS TANK FOR WATER PAN WATER  |  |  |  |              |
| 6                               | CONSTRUCTION OF 2No. VIP LATRINES   |  |  |  |              |
|                                 | Sub-Total   |  |  |  |              |
|                                 | Add VAT 16%   |  |  |  |              |
|                                 | <b>TOTAL FOR WORKS OF WATER PAN, FENCING, SOLAR PUMPING, ELEVATED STEEL TANK AND LATRINE AT UTHOLE FARM</b> |  |  |  |              |

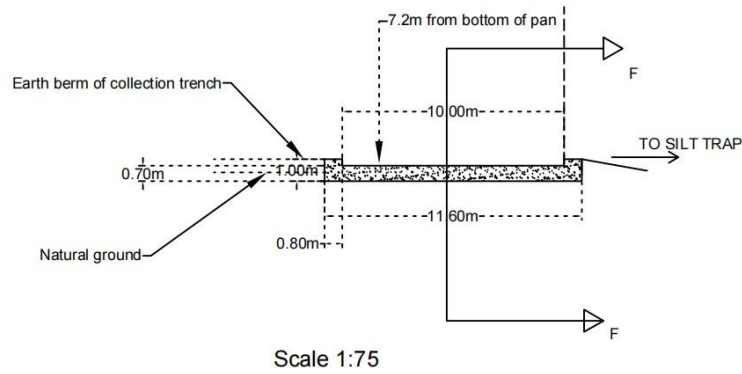
## **ANNEX II: DRAWINGS**



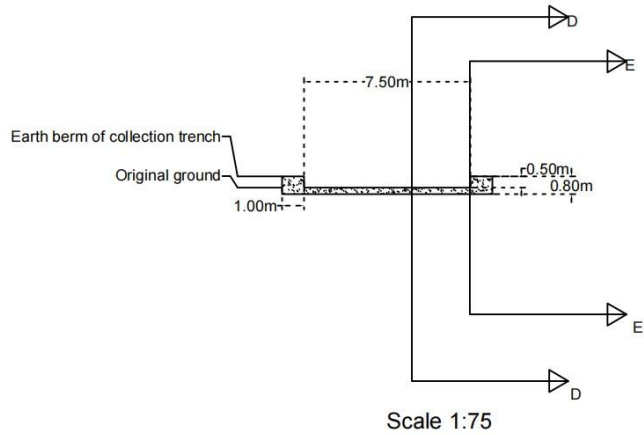
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| CLIENT: ISLAMIC RELIEF | PROJECT: BRACC | DRAWING: WATER PAN | SCALE: 1:1100 | DRAWN BY:<br>PATRICK N | DATE:<br>30th SEPTEMBER 2024 |
|------------------------|----------------|--------------------|---------------|------------------------|------------------------------|



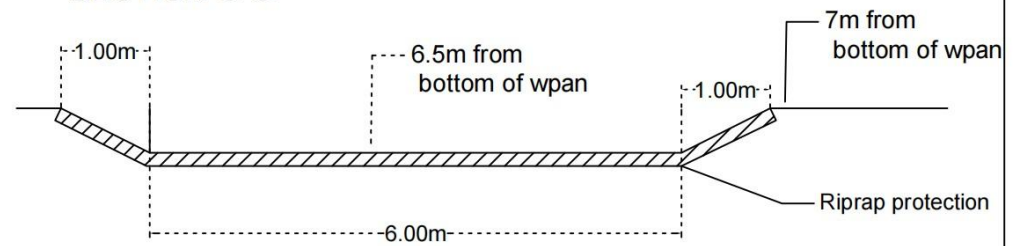
### OVERFLOW TO OUTLET CHANNEL (SECTION B-B)



### INLET TO SILT TRAP (SECTION C-C)



### SECTION G-G



CLIENT: ISLAMIC RELIEF

PROJECT: BRACC

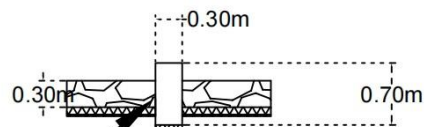
DRAWING:  
WATER PAN STRUCTURES

SCALE: 1:75

DRAWN BY:  
PATRICK N

DATE:  
30th SEPTEMBER 2024

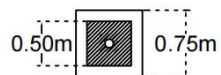
SECTION F-F



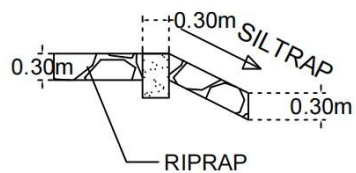
Scale 1:75

Riprap protection of outlet channel

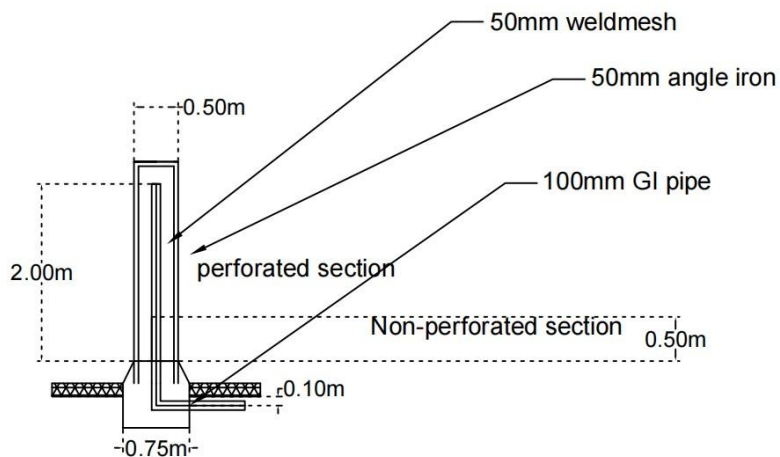
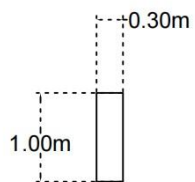
INTAKE STRUCTURE



SECTION D-D

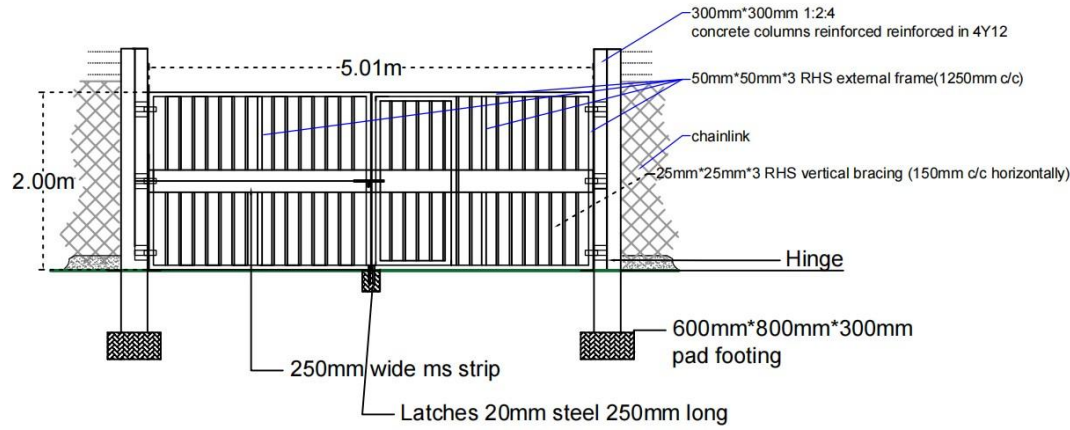


SECTION E-E



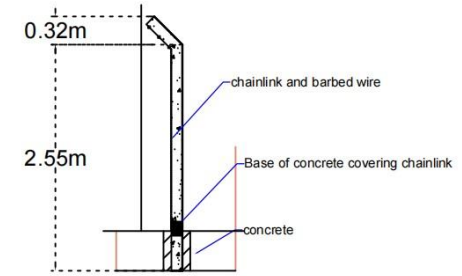
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| CLIENT: ISLAMIC RELIEF | PROJECT: BRACC | DRAWING:<br>WATER PAN STRUCTURES | SCALE: 1:75 | DRAWN BY:<br>PATRICK N | DATE:<br>30th SEPTEMBER 2024 |
|------------------------|----------------|----------------------------------|-------------|------------------------|------------------------------|

### GATE DETAILS



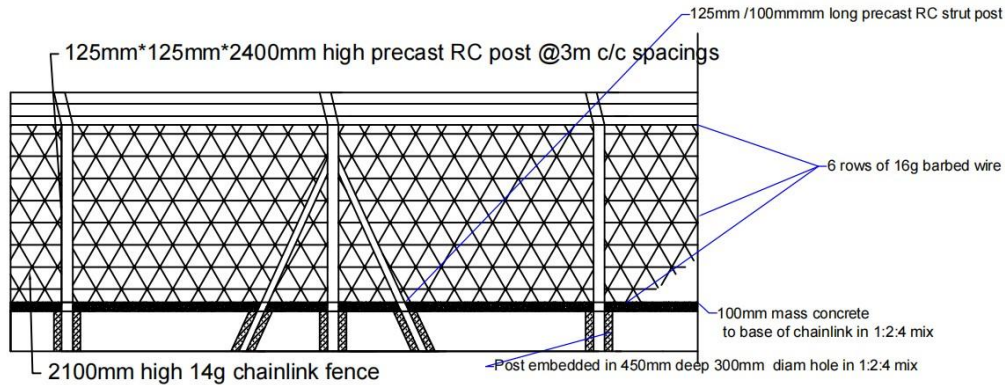
Scale 1:75

### CONCRETE POST DETAILS



Scale 1:75

### FENCE DETAILS



Scale 1:75

CLIENT: ISLAMIC RELIEF

PROJECT: BRACC

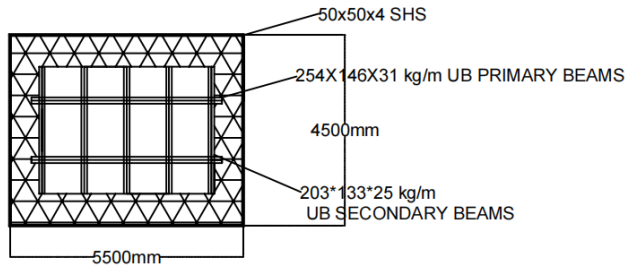
DRAWING:  
FENCE AND GATE DETAILS

SCALE: 1:75

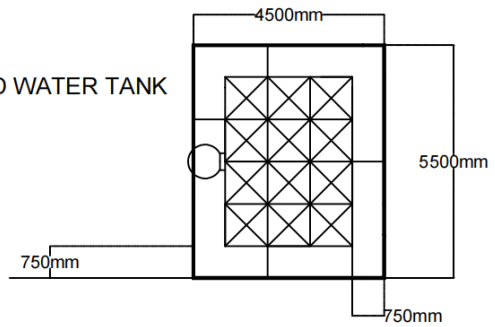
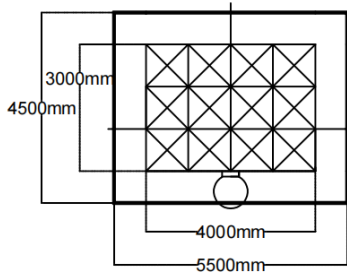
DRAWN BY:  
PATRICK N

DATE:  
30th SEPTEMBER 2024

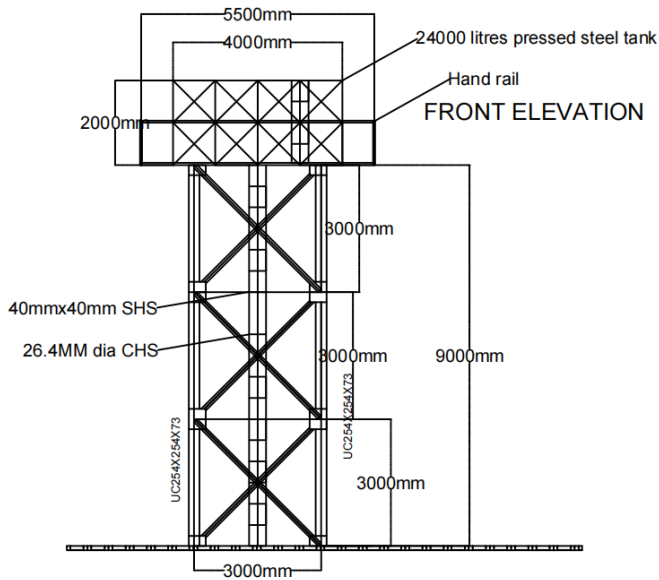
PLAN LAYOUT PLATFORM



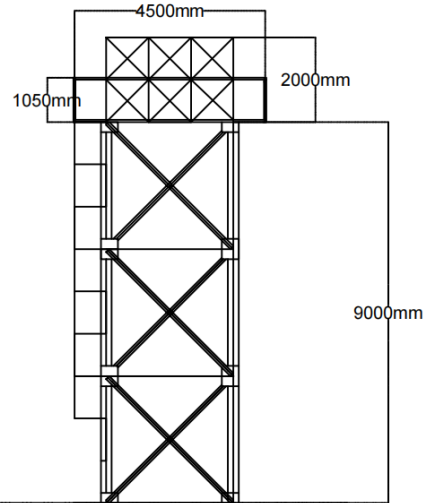
PLAN LAYOUT ELEVATED WATER TANK



FRONT ELEVATION



SIDE ELEVATION



CLIENT: ISLAMIC RELIEF

PROJECT:  
BRACC

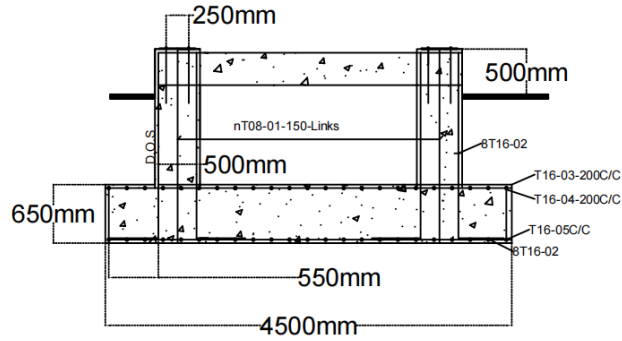
DRAWING: ELEVATED TANK

SCALE: 1:160

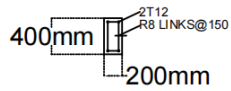
DRAWN BY:  
PATRICK N

DATE: 2nd  
OCTOBER

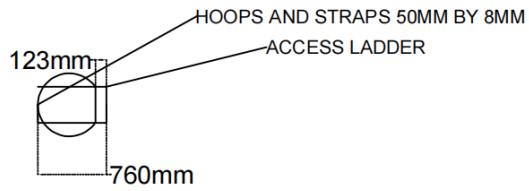
### FOUNDATION DETAILS



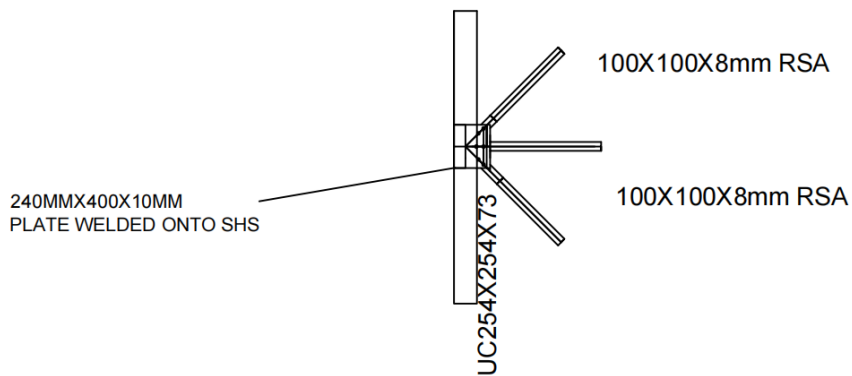
### TYPICAL SECTION THROUGH BEAM



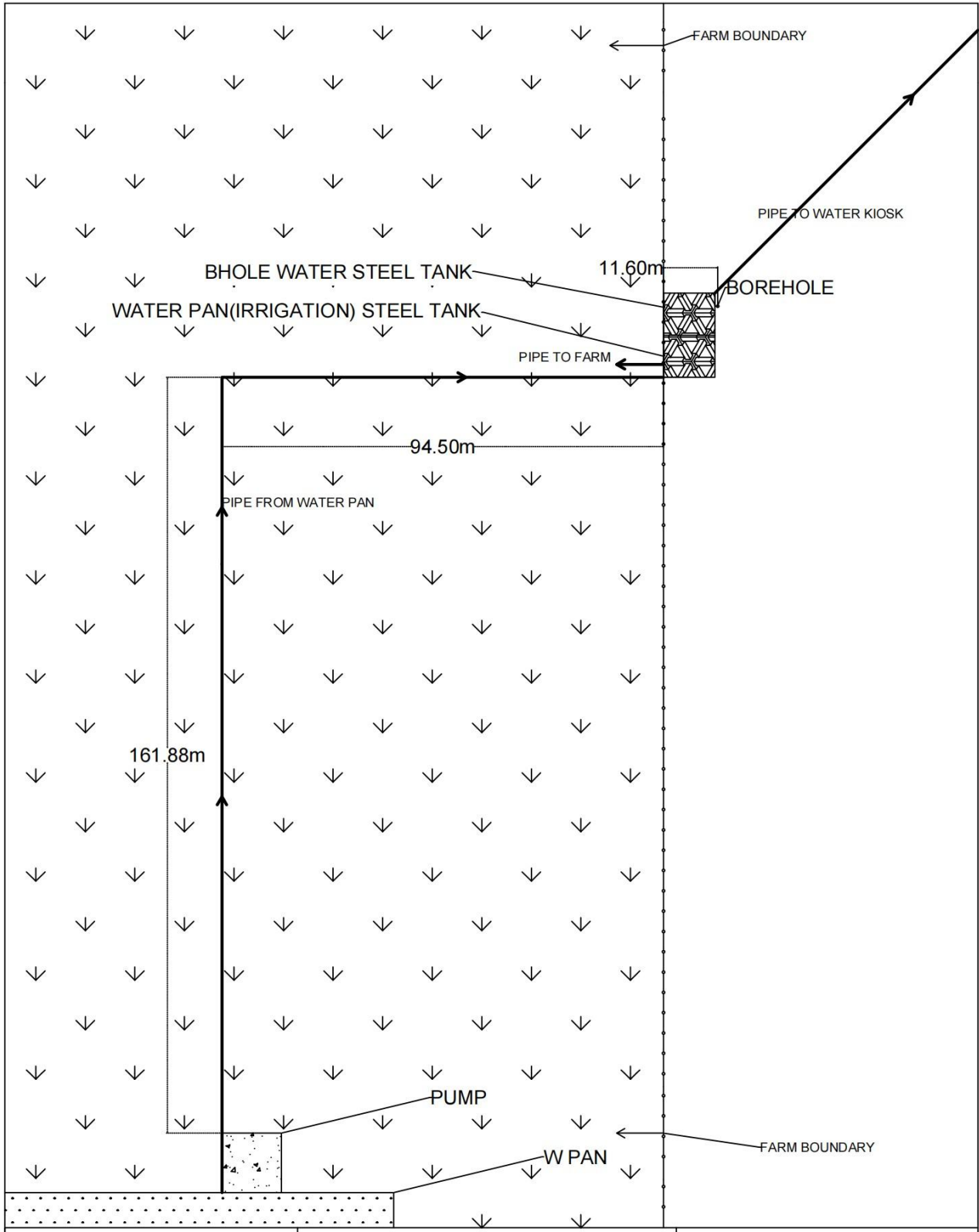
### SAFETY HOOP DETAIL



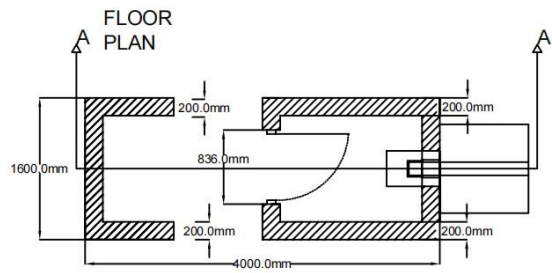
### JOINT DETAIL



|                        |                |                                    |             |                      |                   |
|------------------------|----------------|------------------------------------|-------------|----------------------|-------------------|
| CLIENT: ISLAMIC RELIEF | PROJECT: BRACC | DRAWING: DETAILS FOR ELEVATED TANK | SCALE: 1:75 | DRAWIN BY: PATRICK N | DATE: 2nd OCTOBER |
|------------------------|----------------|------------------------------------|-------------|----------------------|-------------------|

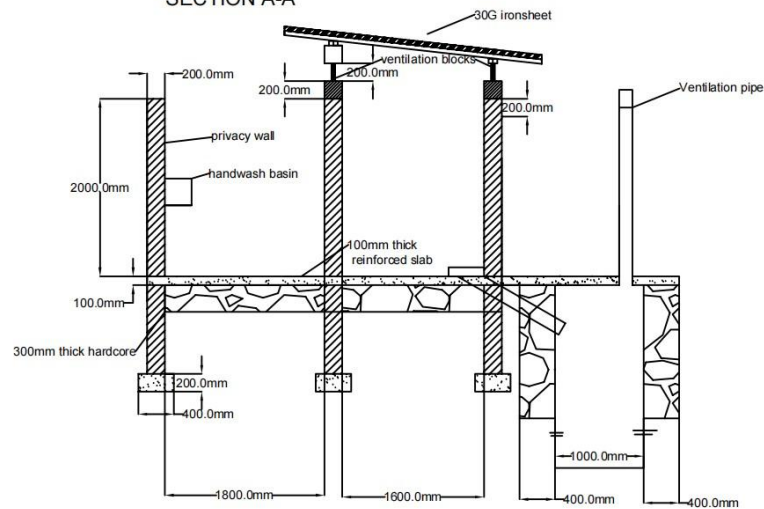


|                        |                             |                              |
|------------------------|-----------------------------|------------------------------|
| CLIENT: ISLAMIC RELIEF | DRAWING: UTHOLE PIPE LAYOUT | DRAWN BY:<br>PATRICK N       |
| PROJECT: BRACC         | SCALE: 1:1100               | DATE:<br>30TH SEPTEMBER 2024 |

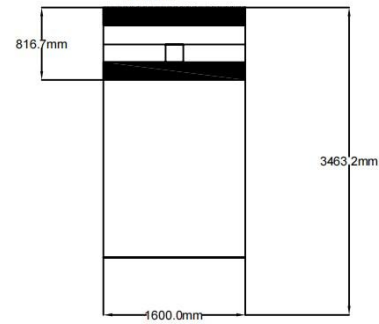


SECTIONAL VIEW

SECTION A-A



FRONT VIEW



|                        |                |                  |             |                      |                      |
|------------------------|----------------|------------------|-------------|----------------------|----------------------|
| CLIENT: ISLAMIC RELIEF | PROJECT: BRACC | DRAWING: LATRINE | SCALE: 1:75 | DRAWIN BY: PATRICK N | DATE: 30th SEPTEMBER |
|------------------------|----------------|------------------|-------------|----------------------|----------------------|

