



Islamic Relief Kenya

**TENDER DOCUMENT FOR
FENCING, CONSTRUCTION OF 1 NO. WATER PAN, 1No. ELEVATED STEEL TANK
AND 2 NO. LATRINES DERARABOJI AREA IN WAJIR WEST SUB-COUNTY,
WAJIR COUNTY.**

REF NO: IRK/WAJ/WORKS/BR/001/10/2024

ISSUED ON: Wednesday, 16th October 2024

CLOSING DATE: Wednesday, 30th 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

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 Peacebuilding.

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.

To achieve this, IRK is raising this tender document for fencing, construction of 1 no. water pan, fencing, pumping system, 1no. elevated steel tank and 2 no. latrines in Deraraboji farm in Wajir west 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 DERARABOJI AREA IN WAJIR WEST SUB-COUNTY, WAJIR COUNTY

TENDER: IRK/WAJ/WORKS/BR/001/01/2024 to be submitted via email tenders@islamic-relief.or.ke no later than Wednesday, 30th 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 DERARABOJI FARM IN WAJIR WEST 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 2No. latrines in Deraraboji farm in Wajir west 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 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 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 – 30th 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 defective 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)
		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
		2yrs- 4 marks
		3yrs- 6 marks
		4yrs- 8 marks
		5yrs & above – 10 marks
5	Evidence of past similar works – Contract, LPO & Completion certificates.	-5 or More = (Max. 30 marks)
		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) 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.	Certified bank statement for 6 months.	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	16 th October 2024
Closing of tender	Wednesday, 30 th October 2024 11:00 am
Opening of tender	Wednesday, 30 th October 2024 11:00 am
Evaluation	1 st – 5 th November 2024
Award	6 th – 7 th November 2024

A: Organization and Contact Details

<u>Full Name of Organization</u>			
<u>Date of Registration</u>			
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	
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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 <u>any of the following offences?</u>	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”	
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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.

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

1	BANK INFORMATION	
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 & Credit Facility</i>	

F Declaration Declaration

2.	<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;">FORM COMPLETED BY</p>	
2.1	Name:	
2.2	Position:	
2.3	Signature:	
2.4	Date:	

2.5	Stamp:	
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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 AT UTHOLE FARM

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	BILL No.1: PROJECT SIGNBOARD				
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		
	TOTAL FOR PROJECT SIGNBOARD TO BE CARRIED FORWARD TO THE GRAND SUMMARY				
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2	BILL No.2: FENCING WORKS (112mx82m water pan compound)				
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		
	TOTAL FOR FENCING WORKS TO BE CARRIED OVER TO GRAND SUMMARY				

3 BILL No.3: EXCAVATION OF WATER PAN AND PROVISION OF INTAKE STRUCTURE

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 ³ 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" 30M 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		
TOTAL FOR WATER PAN TO BE CARRIED OVER TO GRAND SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4	BILL No. 4 SUPPLY AND INSTALLATION OF SURFACE PUMP ON CAGED PLINTH C/W SOLAR POWERING SYSTEM				

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 ³ /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" suction 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		
	TOTAL FOR SOLAR POWERED PUMPING SYSTEM TO BE CARRIED OVER TO GRAND SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5	BILL No. 5 IRRIGATION STEEL WATER TANK -24 CUBIC ON 9M TOWER FOR IRRIGATION				

	Supply, deliver to site, fabricate and install to position the following components of the Elevated Steel Tank				
5.1	Pressed steel tank				
	Fabricate, supply and erect on an elevated steel tower a pressed Hot-dip Galvanized steel section tank, effective capacity 24m ³ 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		
5.2	9M High Tower				
	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 ³ 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		
5.3	Steel Tank Branding				
	4 plates to be branded with the provided organizational logo and wordings	ITEM	1		
5.4	GI pipework				
	Supply, deliver and install 3" dia G.I class B pipe for the inlet work, outlet, washout and overflow for the 24m ³ steel water tank on 9m steel tower. Rate to include connection to the tank bypass pipe, inlet gate valves and all necessary fittings including fasteners and anchor blocks.	ITEM	1		
5.5	Concrete Foundation				
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 25/20 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		
5.6	Piping to and fro base of steel tank for irrigation water				
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	495		

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	495		
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	76		
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	76		
E	Allow contingencies, commissioning and testing to full operationalization of the tank for use by the community.	LS	1		
	TOTAL FOR IRRIGATION TANK TO BE CARRIED FORWARD TO GRAND SUMMARY	Ksh			

6 BILL No. 6 CONSTRUCTION OF 2No. LATRINE BLOCKS					
ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
6.1	SUBSTRUCTURES WORKS (All Provisional)				
6.1.1	Site Clearance				
	Clear over site off grass, shrubs and all vegetation; away as directed.	SM	8		
6.1.2	Excavations				
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 excavation material as directed	CM	3		
6.1.3	Disposal of Waste				
	Keep all excavations free from all waste including spring and running water	ITEM	1		
6.1.4	Planking and Strutting				
	Uphold the sides of all excavations	ITEM	1		
6.1.5	Filling				
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		
6.1.6	Anti-termite treatment				
	Termidoer or other equal approved insecticide with 10-year guarantee to surfaces of fill and tops of foundation	SM	8		
6.1.7	Blinding				
	50mm C15 Concrete blinding to foundation	SM	6		

6.1.8	Concrete				
	Vibrated in situ class 20/20 concrete				
A	strip footing	CM	2		
B	100mm thick bed including ramp	CM	2		
6.1.9	Reinforcement				
	Bars, high yield steel, cold worked to BS4461, including bends, hooks, tying wire and distance block				
A	10mm bars	KG	38		
6.1.10	Fabric BS4483				
	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		
6.1.11	Formwork				
	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		
6.1.12	Walling				
	200mm thick approved local natural stone; roughly squared to foundation walling; bedding and jointing in cement sand (1:3) mortar	SM	11		
6.1.13	Damp proofing				
	Polythene: 1000 gauge, 150mm laps (no allowance made to laps), horizontal; 1 No. layer laid on murrum blinding	SM	7		
	TOTAL FOR SUBSTRUCTURES TO BE CARRIED TO SUMMARY				
6.2	SUPERSTRUCTURES				
6.2.1	Vibrated Insitu concrete reinforced class 20/20 concrete				
	Beams	CM	1		
6.2.2	Reinforcement				
	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		
6.2.3	Sawn formwork to in situ concrete as described: -				
A	To sides and soffits of beams	SM	5		
6.2.4	Walling				
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		
	TOTAL FOR SUPERSTRUCTURES (FRAME/WALLING) CARRIED TO SUMMARY				
6.0	ROOF CONSTRUCTION				
6.3.1	Roof Covering				
	Galvanized corrugated sheet roofing; 30 gauge; pre-painted				

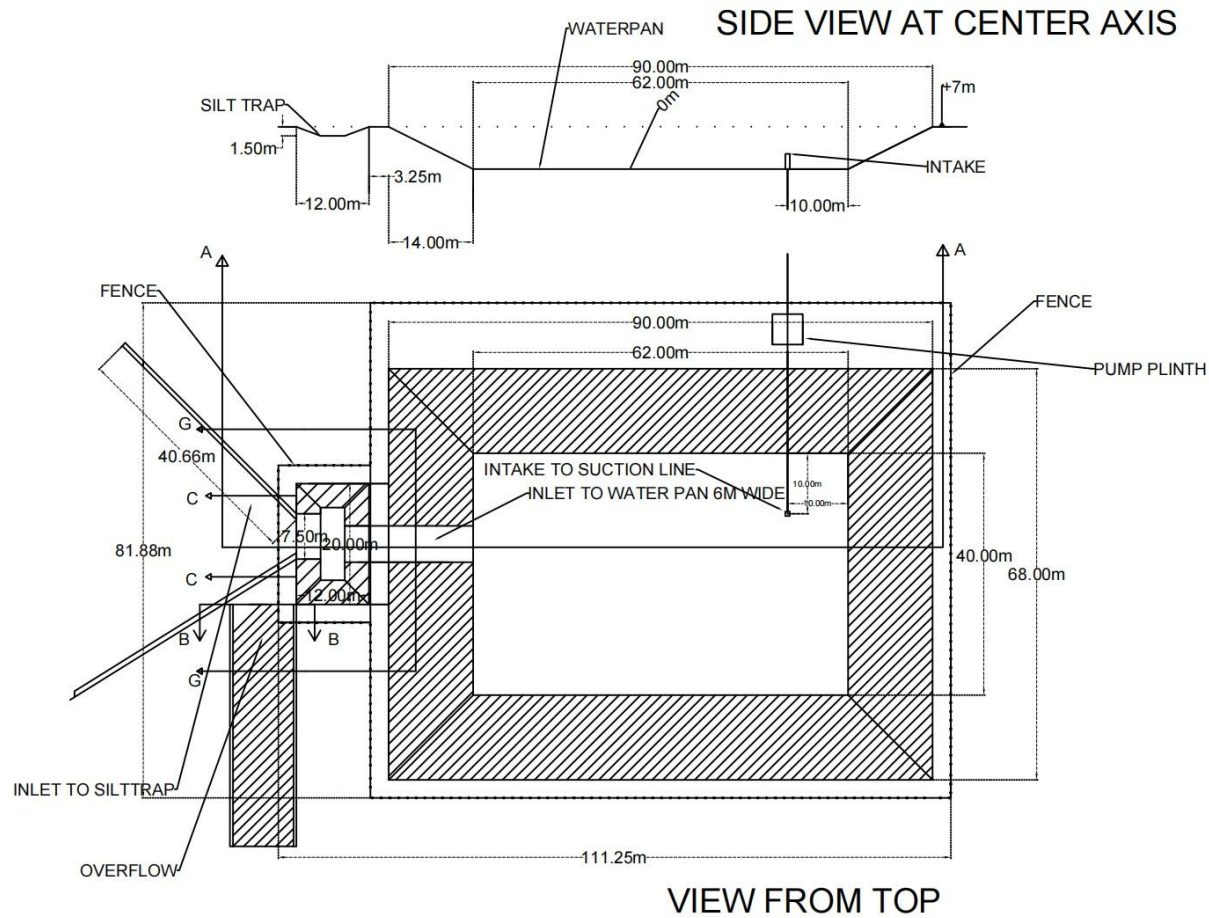
A	Roof covering not exceeding 450mm from horizontal fixing to timber structure (m/s) with roofing nails and neoprene washer, j bolts, nuts and caps	SM	7		
6.3.2	Carpentry				
	The following in sawn cypress all provisional				
A	100 x 50mm rafters	LM	6		
B	100 X 50mm wall plate rag bolted at 1200mm centers with 12mm diameter bolts(m/s)	LM	8		
C	75x 50mm sawn cypress purlins	LM	10		
	Wrot cypress, prime grade				
D	200 x 25mm thick fascia board	LM	11		
E	Apply gloss paint to Fascia; 200 to 300mm girth(external)	LM	11		
	TOTAL FOR ROOF CONSTRUCTION CARRIED TO SUMMARY				
6.4	DOORS				
6.4.1	Timber doors				
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		
	TOTAL FOR DOORS CARRIED TO SUMMARY				
6.5	FINISHES				
6.5.1	Wall finishes				
	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		
6.5.2	Floor finishes				
	38mm thick one coat backings; steel trowelled smooth to concrete base finished with red oxide cement to floors level	SM	12		
6.5.3	Paint and decoration				
A	Plastered wall and beams	SM	73		
6.5.4	Islamic Relief branding artwork				
	Branding with Islamic relief Logo and project details as directed	ITEM	1		
	TOTAL FOR FINISHES CARRIED TO SUMMARY				
6.6	PIT EXCAVATION AND PLUMBING				
6.6.1	Excavation and earthworks				
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		
6.6.2	Rubble stone walling				
	400mm thick rubble wall lining for pit to a maximum depth of 1.5m	SM	6		
6.6.3	RC cover slab				
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		
6.6.4	Plumbing Installation				
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		
	TOTAL FOR FINISHES CARRIED TO SUMMARY				
	SUMMARY FOR CONSTRUCTION OF 2No. TWIN LATRINE BLOCK				
ITEM	DESCRIPTION				
6.1	SUBSTRUCTURE				
6.2	FRAME WALLING				
6.3	ROOFING				
6.4	DOORS				
6.5	FINISHES				
6.6	PIT EXCAVATION				
	SUBTOTAL FOR 1No. LATRINE BLOCK				
	TOTAL FOR 2No. LATRINE BLOCKS				

GRAND SUMMARY OF PROJECT					
COMPONENTS					
BILL NO.	DESCRIPTION				TOTAL
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%				

TOTAL FOR WORKS OF WATER PAN, FENCING, SOLAR PUMPING, ELEVATED STEEL TANK AND LATRINE AT DERARABOJI FARM				
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ANNEX II: DRAWINGS



CLIENT: ISLAMIC RELIEF

PROJECT: BRACC

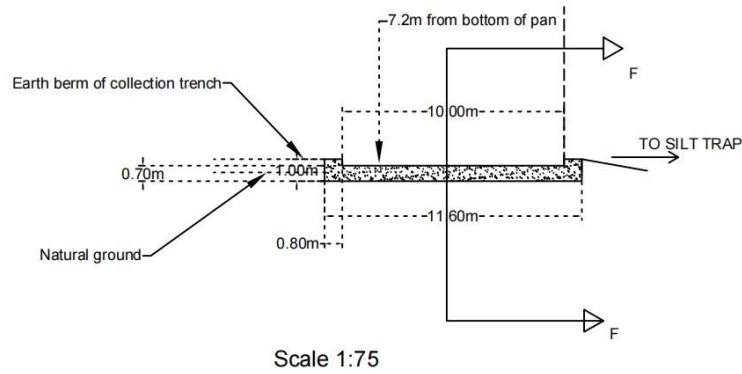
DRAWING: WATER PAN

SCALE: 1:1100

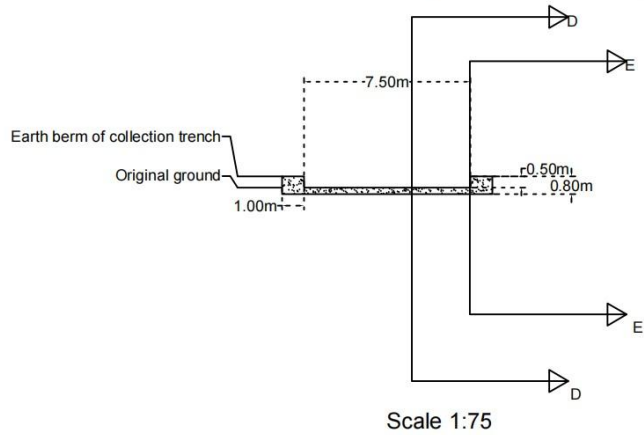
DRAWN BY:
PATRICK N

DATE:
30th SEPTEMBER 2024

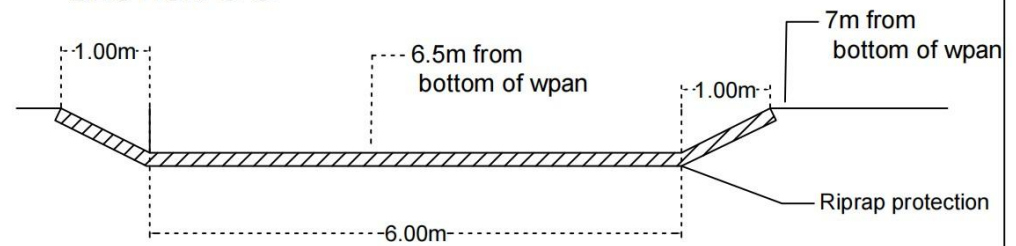
OVERFLOW TO OUTLET CHANNEL (SECTION B-B)



INLET TO SILT TRAP (SECTION C-C)



SECTION G-G



CLIENT: ISLAMIC RELIEF

PROJECT: BRACC

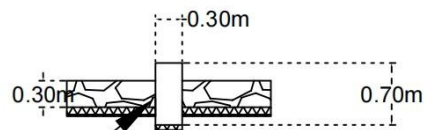
DRAWING:
WATER PAN STRUCTURES

SCALE: 1:75

DRAWN BY:
PATRICK N

DATE:
30th SEPTEMBER 2024

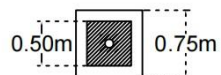
SECTION F-F



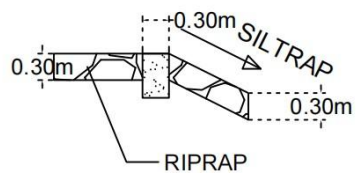
Scale 1:75

Riprap protection of outlet channel

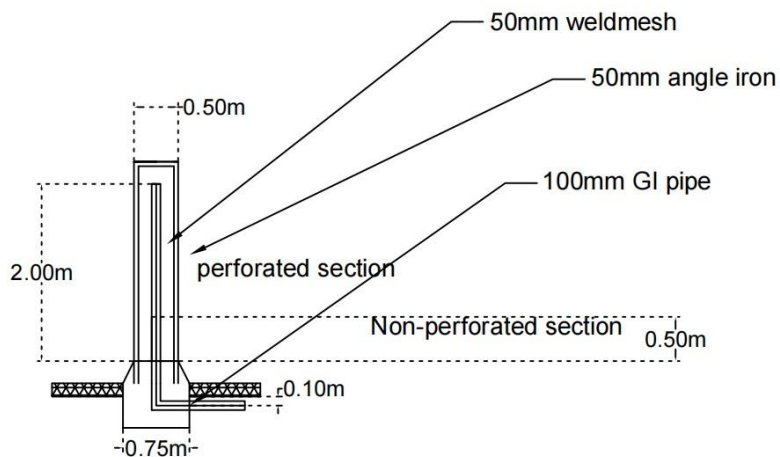
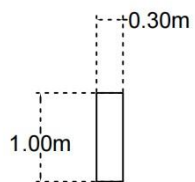
INTAKE STRUCTURE



SECTION D-D



SECTION E-E



CLIENT: ISLAMIC RELIEF

PROJECT: BRACC

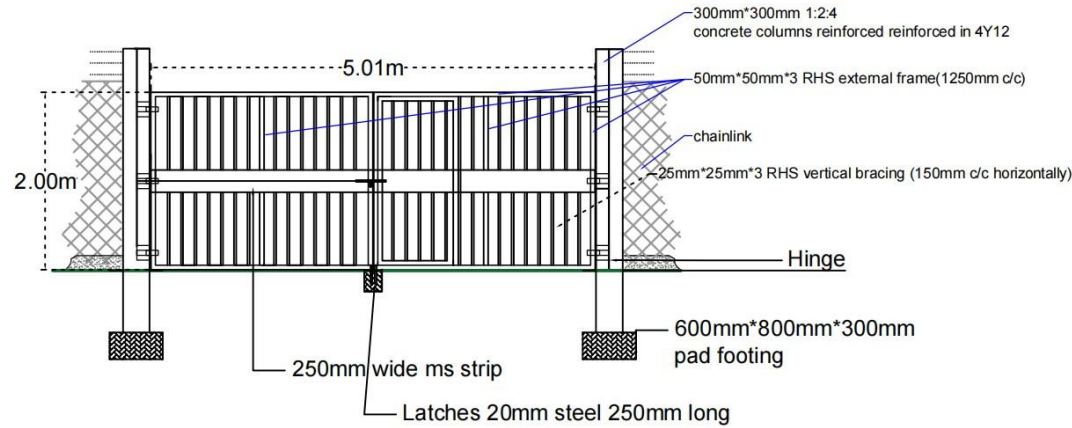
DRAWING:
WATER PAN STRUCTURES

SCALE: 1:75

DRAWN BY:
PATRICK N

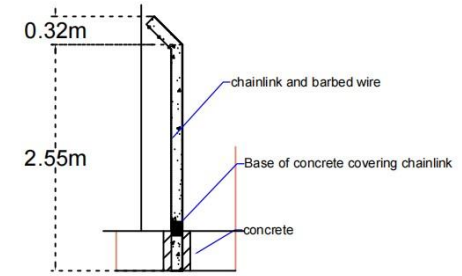
DATE:
30th SEPTEMBER 2024

GATE DETAILS



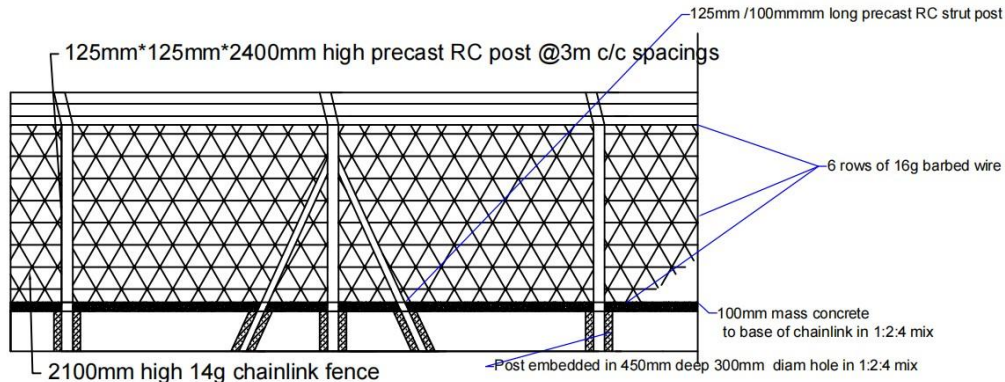
Scale 1:75

CONCRETE POST DETAILS



Scale 1:75

FENCE DETAILS



Scale 1:75

CLIENT: ISLAMIC RELIEF

PROJECT: BRACC

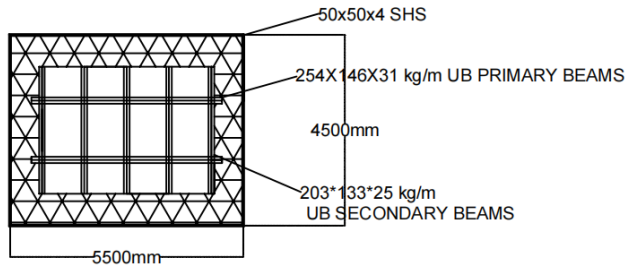
DRAWING:
FENCE AND GATE DETAILS

SCALE: 1:75

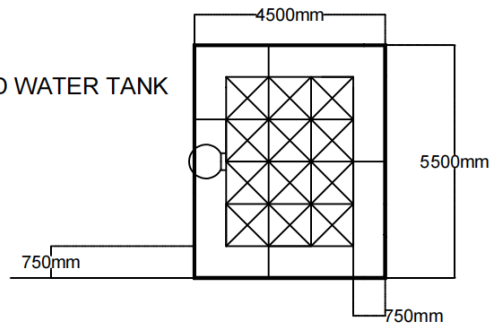
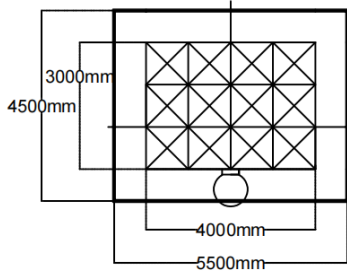
DRAWN BY:
PATRICK N

DATE:
30th SEPTEMBER 2024

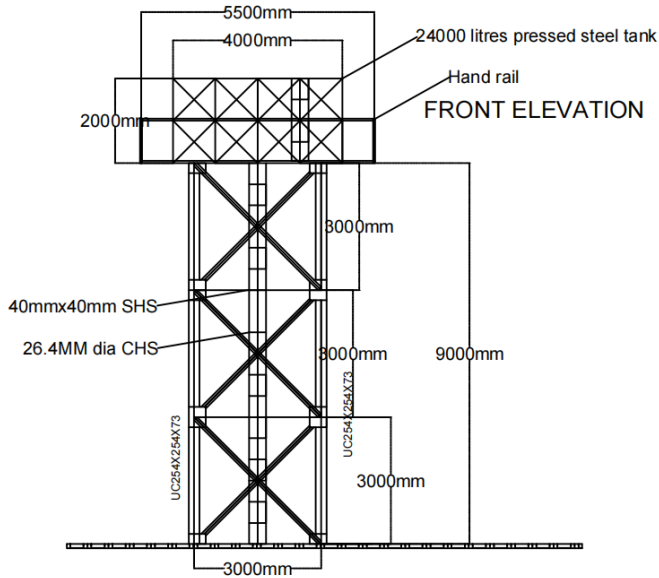
PLAN LAYOUT PLATFORM



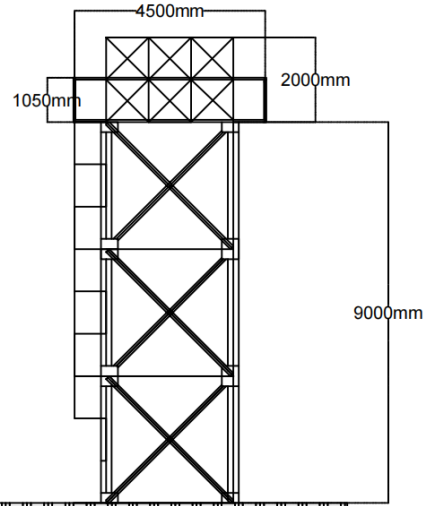
PLAN LAYOUT ELEVATED WATER TANK



FRONT ELEVATION



SIDE ELEVATION



CLIENT: ISLAMIC RELIEF

PROJECT: BRACC

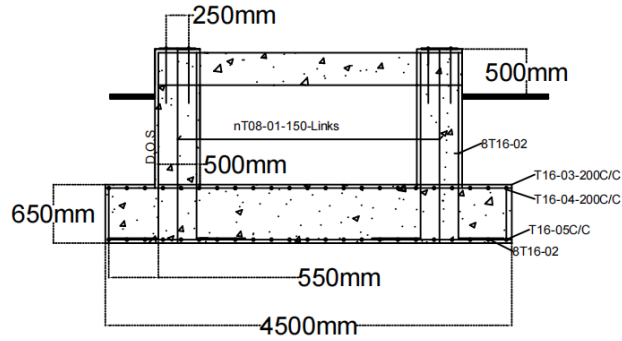
DRAWING: ELEVATED TANK

SCALE: 1:160

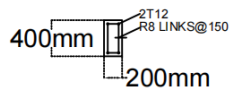
DRAWN BY: PATRICK N

DATE: 2nd OCTOBER

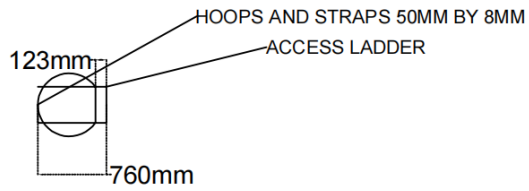
FOUNDATION DETAILS



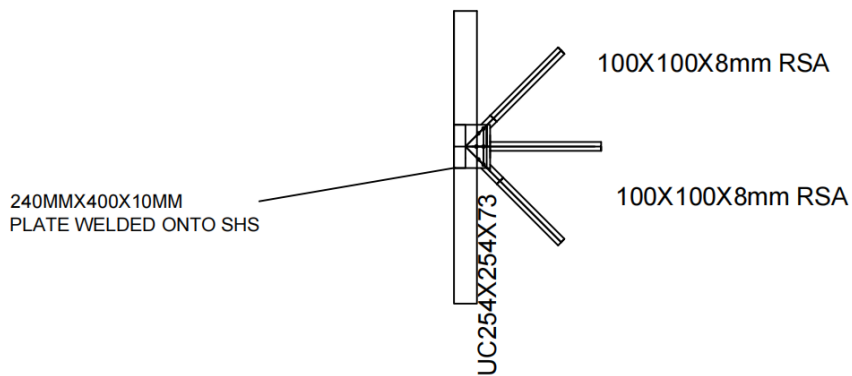
TYPICAL SECTION THROUGH BEAM



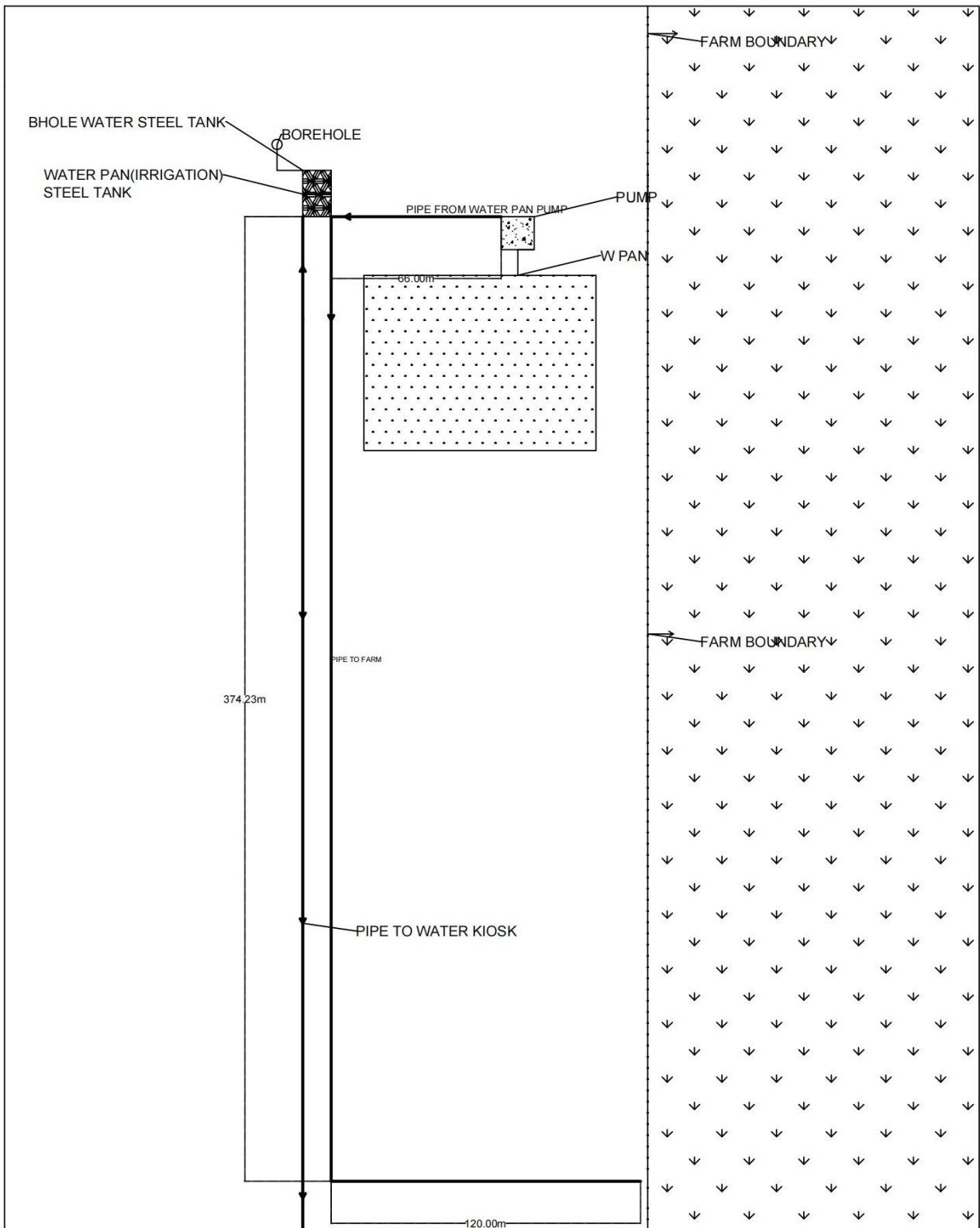
SAFETY HOOP DETAIL



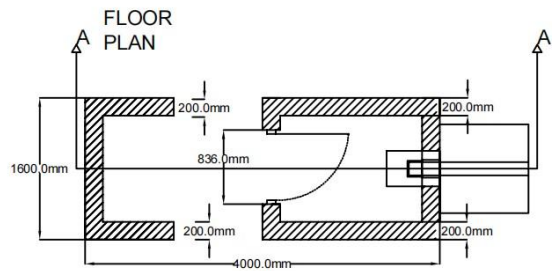
JOINT DETAIL



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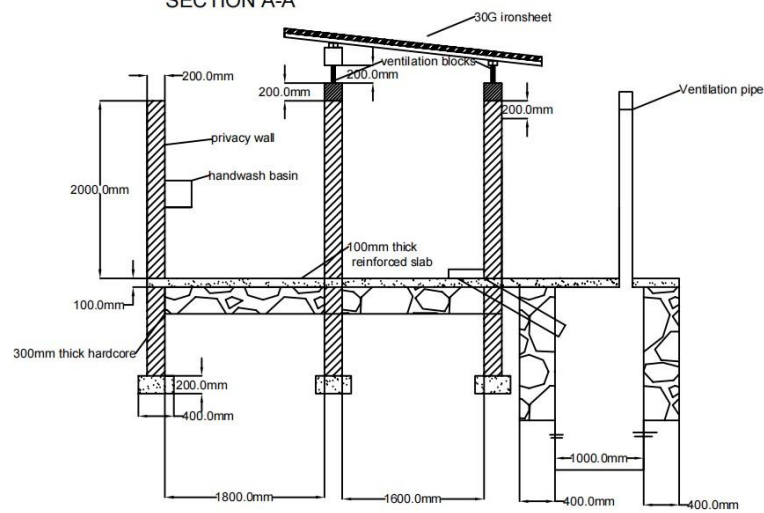


CLIENT: ISLAMIC RELIEF	DRAWING: DERARABOJI PIPE LAYOUT	DRAWN BY: PATRICK N
PROJECT: BRACC	SCALE: 1:2000	DATE: 30TH SEPTEMBER 2024

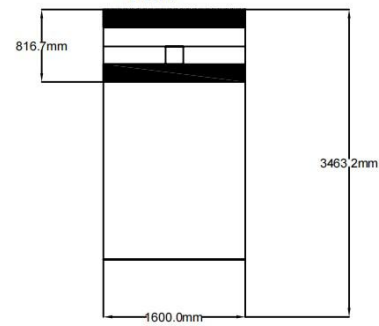


SECTIONAL VIEW

SECTION A-A



FRONT VIEW



CLIENT: ISLAMIC RELIEF

PROJECT:
BRACC

DRAWING:
LATRINE

SCALE: 1:75

DRAWIN BY:
PATRICK N

DATE: 30th
SEPTEMBER

