



Islamic Relief Kenya

**TENDER DOCUMENT FOR REHABILITATION, EQUIPPING AND
SOLARIZATION WORKS AT MODOGASHE INFILTRATION WELL
LAGDERA SUB-COUNTY, GARISSA COUNTY**

TENDER REFERENCE: IRK/GSA/RHB/001/05/2023

MAY 2023

INSTRUCTION TO BIDDERS

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

IR started operations in Kenya in 1993 on orphan's sponsorship programme through a local CBO in Mandera District, Northern Kenya. It opened its fully fledged office in March in 2006 at the 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 programme office in Kilifi County.

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

In Garissa, IRK is currently implementing a three-year project aimed at Strengthening Pastoralist Resilience to Climate Stress in the arid and semi-arid lands (ASAL) of Kenya. The programme is centered around 3 broad SDGs of: -

- a. SDG 2 (Zero Hunger): the project seeks to address the prevailing problem of food insecurity with the target county of Garissa. The project will train the community on better and modern farming practices in the sectors of livestock keeping and small-scale farming hence promoting agro-pastoralism culture in the target communities.
- b. SDG 6 (Clean Water and Sanitation): the project seeks to promote access to clean and safe water to the communities in Garissa County through the rehabilitation and solarization of boreholes, rehabilitation of dams, formation, and training of WRMCs and support to the relevant departments.
- c. SDG 13 (Climate Action): the project seeks to strengthen understanding and uptake of policies promoting climate smart approaches collective approaches towards. The community in Garissa has for a long time suffered climatic shocks in form of drought, famine, and floods. The projects will ensure that the community are sensitized and accommodated in resilience activities and the department is supported especially in policy making and implementation.

The project is targeting Garissa County and intends to reach 25,000 HHs in all the sectors.

IRK is planning to undertake Rehabilitation, Equipping and Solarization works at the Infiltration well in Modogashe town, Lagdera Sub-County in Garissa County to enable increased access to potable water for the targeted local communities.

Interested and eligible individuals/companies specializing in Water Works with sound capacity, relevant experience in similar work and duly registered with NCA are hereby invited to download the tender documents from Islamic Relief Website: <https://islamic-relief.or.ke/tenders-2/> and submit their dated, stamped, and signed bids sealed envelopes clearly marked Referenc: IRK/GSA/RHB/001/05/2023 on or before Friday 3.00 Pm on 9th June 2023 vide hand delivery to **Islamic Relief Kenya office, Kirichwa Road, off Ngong Rd. Nairobi, Kenya. Bids submitted after 3.00 Pm on 9th June 2023 will be automatically disqualified.**

Complains Contact Detail

Email Address: complains@islamic-relief.or.ke

Tel: 0700200849

The deadline for submission of bids is 3:00 pm 9th June 2023, **any tender documents received later than the deadline will not be accepted**. The bid document submitted shall comprise of ***a maximum of 150 pages***. spiral bound and submitted in **sealed** envelopes clearly marked with tender reference number. The envelope shall be dropped in the tender box in the reception at *Islamic Relief Kenya, Nairobi Office, located on Kirichwa Road, next to Kirichwa Height Apartment, Tel: 0727 531220*

TO,

Procurement Committee
Islamic Relief Kenya
Kirichwa Road, off Ngong Road
P.O. Box 417 - 00202 (KNH)
Nairobi, Kenya

INSTRUCTIONS

Bidders are strictly advised to carefully read all the instructions and respond appropriately to the instructions, failure to fulfill them, will entail rejection of the bid submitted by the bidder.

1. Work Scope and Sites Details

The tender is for undertaking the following components as per Annex I – BoQ .

- Rehabilitation, Equipping and Solarization works at the Infiltration well in Modogashe town, Lagdera Sub-County in Garissa County

2. 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, National construction authority and Energy and Petroleum Regulatory Authority

3. Services

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

4. Cost of Bidding

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

5. Clarification of Bidding Documents

A prospective bidder requiring any clarification on the bidding documents may notify the IRK through email or by telephone +254 727531220 / 2543861216 or E-mail address: Procurement.Irk@islamic-relief.or.ke within seven days from the day of publication from 26th May 2023 to 31st May 2023. IRK will respond in writing to any request prior to the deadline

6. Amendment of Bidding Document

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

7. 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.

8. Bid Document Comprises.

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

- a) Valid Registration Certificate
- b) CR12
- c) Tax Compliant Certificate (TCC), **MUST** be verifiable online –itax
- d) KRA PIN certificate
- e) Valid registration with County Government / Business permit
- f) Copy of ID/Passport for Company Owner/Director
- g) Registration with NCA 7 – Water works.
- h) Registration with NCA 7 and above – Electrical works (Verifiable Online)
- i) Active Solar PV Contractors/Vendor License with EPRA
- j) Company Profile with detailed physically verifiable contact address
- k) Evidence of Past Experience in similar work done the past 3years e.g., at least 5 signed Contract/PO / Completion certificate.
- l) Bid bond at least 10% of the quoted amount valid for 180 days or More
- m) Key Technical staff and their CVs
- n) List of Key Equipment
- o) Detailed work plan and methodology statement
- p) Bank Statements for six months 1st December 2022 – 31st May 2023
- q) Audited Reports for 2022.
- r) Duly filled Tender B.o.Q and forms in the format provided.
- s) Serialization of the tender documents using Paginated Numbering Machine
- t) All copies of certificates/mandatory documents must be Certified by a **commissioner** of Notary/Oath.

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

9. Bid Currencies

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

10. 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.

11. Withholding Tax

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

12. Retainer

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

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

IRK reserve the right at the time of 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.

14. 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.

15. Submission of Bids

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

16. Evaluation

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

16.2 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.

16.3 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 8.

16.4 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.

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

shall be disqualified.

17. 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.

18. 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 requirement
1.	Company Registration Certificate – Mandatory	PASS/FAIL
2.	CR12- Mandatory	PASS/FAIL
3.	Registration with the county government/valid and genuine business permit.	PASS/FAIL
4.	Active KRA PIN	PASS/FAIL
5.	Valid Tax Compliance	PASS/FAIL
6.	Copy of ID/ Passport of the directors	PASS/FAIL
7	Registration with (NCA7 and above). Water Works	PASS/FAIL
8.	(Water Works)	
8.	Registration with NCA 7 and above – Electrical works (Verifiable Online)	PASS/FAIL
9.	Active Solar PV Contractors/Vendor License with EPRA	PASS/FAIL
10.	Duly filled Tender B.o.Q and forms in the format provided (Organization details, Grounds for Mandatory Rejection, Grounds for Discretionary rejection form, Bid Value, Financial and declaration)	PASS/FAIL

- N/B:Bids lacking any of the documents listed as Mandatory will not be considered for both technical and financial evaluation.

TECHNICAL ANALYSIS

No.	Description	Score
1	Brief Company Profile with verifiable physical location/address	10
	Brief Company Profile with verifiable physical location/address, Areas of expertise, Organograms, list of all projects and list of referees	

2	Bid bond	10% bid bond valid 180days, signed, stamped-10. Less 10% bid bond or valid less than 180 days or not signed or stamped - 5	10
3	List of Key Equipment	Owned (Max 10 marks)	10
		50% Owned – 50% leased (Max - 7)	
		100% leased (Max. 5 Marks)	
4	List of Key Personnel	(Degrees- 10, HNDs – 6, Diplomas – 4)	10
5	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	10
6	Evidence of past similar works - Completion certificates, contracts. Provide at least Water works -based projects with list of referees with their contract details (name, telephone number, email, location, and organization)	-5 or More = (Max. 20 marks)	20
		4 LPOs/contracts/completion cert (Max 16 marks)	
		3 LPOs/contracts/completion cert (Max 12 marks)	
		2 LPOs/contracts/completion cert (Max 8)	
		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 ease of verification	
7	Detailed work plan and methodology statement	<ul style="list-style-type: none"> - Not to exceed 2 Months work period. - Programme narrative that describes the mechanisms, assumptions made in preparation. - a critical path analysis for the works which shall clearly show the float times available, earliest start earliest finish, late start/ late finish for every activity. 	10
8.	Certification of all mandatory documents by a commissioner of Notary/Oath.		10
9.	Serialization of the tender documents using Paginated Numbering Machine		5
10.	Tender Envelopes Sealed, clearly marked with company details & stamped.	Envelop clearly marked with the details- 5 Envelop not clearly marked -0	5
TOTAL			100

Pass mark -80%

N/B: Bids that will not score 80% and above in the technical analysis will automatically be disqualified and shall not be considered for financial evaluation.

FINANCIAL ANALYSIS

No.	Description		Maximum
1	Within Allowable Budget	Within budget (10% variance-above or below PR value)- 30 Above budget (more than 10% variance)- 5 Under budget (more than 10% variance) – 5	30
2	Certified Bank statement for the past six months. The bank statement must have a balance to cater for the quoted amount).(1 st December 2022-31 st May 2023	Certified bank statement for 6 months with a balance to cater for the quoted amount- 30. Uncertified bank statement with less balance -0	30
3	Certified audit report for the past Year (2022)	Certified audit report for the period of 1 st January 2022 to 31 st December 2022	20
4	Evidence of Certified letter of credit facilities from the reputable bank, cash/ bank balance.	Certified letter of credit (signed & stamped) with maximum allowable credit-10%. Uncertified letter of credit with no credit amount indicated -0	20
	TOTAL		100

Pass Mark: 75%

NB: - Bids who will not score 75% and above in the financial analysis shall not be considered for the due diligence.

Tender Schedule

<u>Task</u>	<u>Date</u>
Advertising of tender	26 th May 2023
Closing of tender	9 th June 2023 3.00 Pm
Opening of tender	9 th June 2023 at 3.00 Pm
Evaluation	12 th June 2023 -14 th June 2023
Award	15 th June 2023

Note: IRK reserves the right to extend the tender publication period, revise the opening and evaluation.

The deadline for submitting bids/quotation 9th June 2023

Bids to be sent to IRK Nairobi offices in a hard copy marked:

Tender Name: Rehabilitation, Equipping and Solarization Works at Modogashe Infiltration Well Lagdera Sub County, Garissa County.

Tender Ref:IRK/GSA/RHB/001/05/2023

TO,

Procurement Committee
Islamic Relief Kenya
Kirichwa Road, off Ngong Road
P.O. Box 417 - 00202 (KNH)
Nairobi, Kenya

MANDATORY QUESTIONNAIRE

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	

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 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>	
<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
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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:	

ANNEX I: B.O.Q

ISLAMIC RELIEF KENYA

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



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

Ref:
Date:

**BILL OF QUANTITIES FOR THE REHABILITATION, EQUIPPING AND SOLARIZATION WORKS
OF MODOGASHE INFILTRATION WELL LAGDERASUB-COUNTY, GARISSA COUNTY**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	BILL No. 1: PRELIMINARIES AND GENERALS				
1.1	Provide, fabricate and install MS Signboard (4ftx8ft) raised 1.0m above ground complete with appropriate paintwork, Islamic Relief Logo and Project details on either side.	ITEM	1		
1.2	Allow for the construction of raised masonry platform 1200mmx1500mm above ground level plastered on both sides as permanent visibility to be constructed inside the site. Fix 1SM foundation stone on the Platform. Cost to include the supply, delivery, fixation of appropriate commemoration plaque. The relevant artworks details on the plate to be provided IRK.	ITEM	1		
TOTAL CARRIED TO SUMMARY					
2	BILL No.2 : REPAIR AND SERVICING OF 1 No. PERKINS GENSET, 25KVA				
2.1	Supply and install new Injector pump	No.	1		
2.2	Supply and install new Circuit breaker	Set	1		
2.3	Supply and install new Self- Starter	Set	1		
2.4	Supply and change of Engine Oil	Lts	10		
2.5	Supply and replacement of Engine Oil Filter	No.	1		
2.6	Supply and replacement of Air Cleaner	No.	1		
2.7	Supply and replacement of Fuel Filter	No.	1		
2.8	Supply and Install N70 Batteries	No.	1		
2.9	Allow for contingencies, testing and commissioning to full system operationalization.	Item	1		
TOTAL CARRIED TO SUMMARY					
3	BILL No. 3: EXISTING PUMP HOUSE REPAIR WORKS				
3.1	Hack and demolish existing damaged finishes on internal, external walls including deep cracks and cart away debris.	SM	15		

3.2	Inject cement mortar to all holes and hacked areas with cracks and fix with chicken wire and mortar (1:3)	SM	15		
3.3	Hack and demolish existing floor finishes including deep cracks and cart away debris.	SM	14		
3.4	Hard core filing in making up levels not exceeding 300mm thick, depositing and compacting in layers of 125mm maximum thickness	SM	14		
3.5	Reinforced concrete grade 20/20 - 150mm thick roof slab	CM	2		
3.6	Reference A142 mesh 200 x 200 mm , weight 2.22 kgs per square meter (measured net -no allowance made for laps(including bends, tying wire and distance blocks	SM	14		
3.7	38mm thick one coat backings; steel trowelled smooth to concrete base finished to floors level.	SM	14		
3.8	Provide steel frame for existing (2mx1m) MS Door and grout to the floor and side walls for anchorage. Cost to include anti-rust painting on all surfaces.	ITEM	1		
3.9	Prepare and apply three coats of first quality plastic emulsion paint to internal walls/surfaces (Cream)	SM	29		
3.10	Prepare and apply three coats deep blue oil paint full gloss to external surface including door and mesh surfaces.	SM	29		
3.11	Provide branding and paintwork with Islamic Relief Logo and Project details	ITEM	1		
TOTAL CARRIED TO SUMMARY					
4	BILL No. 4: EXISITNG INTAKE WELL APRON REPAIR WORKS				
4.1	Hack and demolish existing wall finish on external surfaces including deep cracks and cart away debris.	SM	19		
4.2	Fish out the pump and service it, replace the faulty motor(Tesla 2.2kw)	LS	1		
4.2	Inject cement mortar to all hacked surfaces and fix with chicken wire, appropriate re-bars staples and mortar (1:3)	SM	19		
4.3	15mm thick plaster Cement sand (1:4) on masonry and concrete surfaces, steel trowelled to smooth finish	SM	19		
4.4	Fabricate and Install MS lockable trap door (500x500mm) at the cover slab. All Steel surfaces to be painted with anti-rust paint.	ITEM	1		
4.5	Brand Well protection works with IRK logo and project details	ITEM	1		
TOTAL CARRIED TO SUMMARY					

5	BILL No.5: FENCING WORKS (12mx12m compound)				
5.1	Clear the site from trees, bushes and unwanted vegetation	SM	1400		
5.2	Excavate post holes of size 300mm diameter and 400mm deep to receive concrete poles.	No.	60		
5.3	Supply and fix precast concrete posts of size 125x125mm and 3m long/high of concrete grade C-20 placed at 3 metres apart c/c with 6 through holes for wire or bolt. The insitu mass concrete surround to be compacted.	No.	60		
5.4	Ditto but 125mmx100mm and 2.4m long precast concrete strut posts of grade C-20 placed at corners and after every 5 poles (15m)	No.	34		
5.5	Provide, place, compact and vibrate 1:2:4 concrete to the post holes.	CM	2		
5.6	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	412		
5.7	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	1200		
5.8	Provide, place, compact and vibrate insitu 1:3:6 mass concrete to the base of the Chainlink within 100mm above the existing ground level.	CM	3		
5.9	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		
5.10	Provide materials, fabricate and install purpose made steel grided double leaf security gate overall size 4000x2000mm high in two equal opening leaves each size 2000x2000mm high with external frame of 50x50x3mm SHS. Vertical bracing of 50x50x3mm spaced @400mm c/c, horizontal frame of 40x40x3mm spaced @ 300mm c/c all fixed to external frame by welding including all hinged supported by RC columns complete with locking devices all painted with two coats of approved primer and finished with final coat first grade gloss paint (perch blue)	No.	1		

5.11	Provide materials, fabricate and install purpose made steel grided single leaf pedestrian gate overall size 2000mmx1000mm with external frame of 40x40x3mm SHS. Vertical bracing of 40x40x3mm spaced @ 400mm c/c, horizontal frame of 25x25x3mm spaced at 300mm c/c all fixed to external frame by welding including all hinges supported by 75mmx75mm SHS columns complete with locking devices all painted with two coats of approved primer and finished with final first grade gloss paint (perch blue)	No.	1		
TOTAL CARRIED TO SUMMARY					
6	BILL No. 6: EQUIPPING AND SOLARIZATION WORKS				
	<i>Supply and deliver to site, install and commission test the following:</i>				
6.1	Dayliff DSD 3/40, 3 KW 3PH Pump c/w Pump End and Sub-mortar or its approved equivalent	Set	1		
6.2	Dayliff SV3 3.7KW 3PH Sunverter	Set	1		
6.3	Dayliff 2" Standard 3M pipe	No.	3		
6.4	Dayliff 2" Adaptor Set	No.	1		
6.5	Borehole cover 2"x6" complete with fittings	No.	1		
6.6	Adaptor Box 4x4x3mm	No.	1		
6.8	PVC Pipe 25mm Class D	No.	2		
6.7	Crystalline Photo Voltaic Solar Modules connected in panels of 335W, 24Vdc	No.	16		
6.8	Dayliff 4ST 1000 V/32A PV Disconnect Switch	No.	1		
6.9	Earth rod complete with clamp	No.	1		
6.10	Lightning Arrestor	No.	1		
6.11	Copper Earth Cable 6mm ²	M	10		
6.12	PVC Cooling sleeve "4"	No.	1		
6.13	2.5mm ² - 4core UG cable	M	28		
6.14	1.5mm ² - 2core UG cable	M	28		
6.15	2.5mm ² x4 core Standard PVC Flat submersible Drop Cable	M	19		
6.16	Londex standard Dual Core Cable	M	19		
6.17	Twin Flat 6mm Cable with Earth	M	35		
6.18	Well probe sensor	No.	1		
6.20	GS sunverter Enclosure 1000x500x350mm	No.	1		
6.21	Appropriate stand for the panels made of 75mm stand pipes, 50 mm SHS members, stub Column bases, 4m Height to support the panels, guard rails, permanent and movable ladders as shall be approved by the PM	Item	1		

6.22	Installation Sundries	Item	1		
6.23	Install 2" GI suction pipe including adjoining fittings connected to the rising main. Cost to include masonry finishes accordingly.	M	11		
6.24	Allow for possible repairs of pipe sections rising main	Item	1		
6.26	Allow for distribution network(25mm-32mm) HDPE 25mm-----1600m 32mm-----1800m	LM- LM			
6.25	Allow for contingencies, testing and commissioning to full system operationalization. Cost to include training of local operators on Operation and Maintenance.	Item	1		
TOTAL CARRIED TO SUMMARY					
SUMMARY OF PROJECT COMPONENTS					
ITEM	DESCRIPTION	AMOUNT			
1	PRELIMINARIES AND GENERALS				
2	REPAIR AND SERVICING OF 1 No. PERKINS GENSET, 25KVA				
3	EXISTING PUMP HOUSE REPAIR WORKS				
4	EXISTING INTAKE WELL PROTECTION REPAIR WORKS				
5	FENCING WORKS				
6	EQUIPPING AND SOLARIZATION WORKS				
	SUB-TOTAL				
	Add VAT 16%				
GRAND TOTAL FOR REHABILITATION, EQUIPPING AND SOLARIZATION WORKS AT MODOGASHE INFILTRATION WELL					