



Islamic Relief Kenya

**TENDER DOCUMENT FOR CONSTRUCTION OF 2 NO 50M3 MASONRY
TANKS FOR SHIMBIREY BOREHOLE IN BALAMBALA -SUB-COUNTY,
GARISSA COUNTY**

TENDER REFERENCE: IRK/GSA/CONS-MNRY/002/05/2023

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 Construct 2 No 50m³ masonry tanks at Shimbirey in Balamabala 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/CONS-MNRY/002/05/2023 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.**

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

Note: Tenders will be opened on 9th June 2023 at 1300hrs in the presence of bidders or their representatives who choose to attend at IRK Country Office Board room

Complains Contact Detail
Email Address: complains@islamic-relief.or.ke
Tel: 0700200849

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 .

- Construct 2No 50m³ masonry tanks at Shimbirey in Balamabala 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
Tender Document for Construction ofg 2No. 50CM3 Mansory Tanks for Shimbirey Borehole- Garissa County

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	Weighting	in
		Mandatory Evaluation	
		Pass- 5 Fail-1	
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
2	Bid bond	10
	10% bid bond valid 180days, signed, stamped-10.	
	Less 10% bid bond or valid less than 180 days or not signed or stamped - 5	
3	List of Key Equipment	10
	Owned (Max 10 marks)	
	50% Owned – 50% leased (Max - 7)	
	100% leased (Max. 5 Marks)	
4	List of Key Personnel	10
	(Degrees- 10, HNDS – 6, Diplomas – 4)	

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) 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	20
7	Detailed work plan and methodology statement	- 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).	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: Construction Of 2 No 5om3 Masonry Tanks For Shimbirey Borehole In Balambala -Sub-County, Garissa County. Tender Ref:IRK/GSA/RHB/001/05/2023

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.

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

D – Bid Value & Duration of Supply

<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>	

Swift Code	
Letter From Bank Confirming Account & Credit Facility	

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



BILL OF QUANTITIES FOR PROPOSED CONSTRUCTION OF 50M3 MASONRY TANK

Item No	Item Description	Unit	Qty	Rate	Amount
1	EARTH WORKS (ALL PROVISIONAL)				
1.01	Strip top soil 200mm from ground level over the area of tank and remove all the soil to a temporary soil heap	M2	18.8		
1.02	Trim ,spread and level the ground around the tank to form suitable drainage of surface water	M2	20		
1.03	Excavate from the stripped level to a depth not exceeding 1.5m deep and dispose of the materials 50m away from the foundation, allowing the use of selected excavated materials for fill or back fill as required.	M3	68		
1.04	Extra over excavation for excavating in rock item 6.03 (provisional)	M3	5		
	Hardcore filling as specifications				
1.05	Provide, place and compact hardcore using, 500mm thick to make up levels.	M3	10		
1.06	Blind the surface of the hardcore using, 50mm layer of 1:4:8 concrete mix to make up levels under floor slab	M3	2.5		
1.07	Provide and place 500gauge polythene sheet to the surface of the blinded hardcore	M2	26		
1.08	Ditto to roof cover slab	M2	26		
Sub-total carried to summary					
	Concrete works.				
	Provide materials, handle, mix and place.				
1.09	Vibrated 1:2:4 concrete mix asdescribed to 150mm thick floor slab.	M3	5.2		
1.1	Ditto to 150mm thick roof slab	M3	4.2		

1.11	Ditto to outlet /inlet pipes anchorage chambers and column. including inlet and outlet valve	M3	0.5		
Sub-total carried to summary					
	Reinforcement Bars				
Provide, handle, cut, bend and fix in position the following reinforcement bars as per the bending schedule.					
1.12	12mmΦ high yield reinforcement bars to the roof slab and column	KG	372		
1.13	Ditto to the floor slab	KG	320		
1.14	8mmΦ mild steel circumferential bars bent to average radius of 2875mm.	KG	342		
1.15	10mmΦ mild steel reinforcement bars to valve chamber cover slabs.	KG	45		
1.16	Allow for binding wire to items 6.12, 6.13, 6.14 and 6.15	Kg	50		
	Shuttering/formwork				
1.17	Provide sawn timber form work to soffit of roof slab including the inlet /outlet valve chambers and columns	M2	36		
1.18	Provide cut and fix ply wood to the edges of 150mm tick floor slab	M2	3.6		
1.19	Ditto to edges of roof slab	M2	3.4		
1.2	Sawn timber formwork 150mm wide to the edges of manhole opening including the outlet and inlet valve chambers.	M	10		
1.21	Provide and place good quality timber struts/pole support to roof slab average size 100mmΦ and 3000mm long	No.	75		
Sub-Total Carried to Summary.					
	WALLING				
Concrete block walling Provide all materials, handle, mix mortar as per specification and construct the following.					

1.22	225mm thick concrete block walling in 1:1:3 cement: water proof cement: sand mortar ration between the joints.	M2	58		
1.23	Provide and install bondex seal in the joints as per the instruction	LS	1		
1.24	Install double layer of bitumen coat between surface of masonry wall and floor/roof slab	LS	1		
1.25	Construct and complete valve chamber in concrete masonry block measuring 1500mm x1500mm x 1000mm deep complete with steel plate cover including locking device.	No.	2		
Sub-Total Carried to Summary.					
	FINISHES				
1.26	Provide all materials , handle ,mix and apply 20mm thick 1:3 cement: sand mortar screed Including water proof cement to floor slab	M2	20		
1.27	Ditto rendering to the interior surface of the concrete block walls including waterproof cement.	M2	48		
1.28	Ditto to the exterior surface of block walls including water proof cement.	M2	52.4		
1.29	20mm thick 1:3 cement: sand mortar screed to the exterior surface of the roof slab.	M2	24		
	Metal work and miscellaneous items				
1.3	Supply and install internal and external tank ladder fabricated on stainless steel tubing and include provision and fixing of 25mm G.S Pipes extension of ladder top as directed by the Engineer.	No.	2		
1.31	Supply and install tank manhole cover size 600mmx 450mm fabricated on 3mm thick steel plate including locking device and good quality padlock.	No.	2		
1.32	Supply and install 100mmΦ GI bend to air vent as per the drawing	No.	2		
1.34	100mmΦ G.S pipe threaded on one side and side lugged and fixed to the top concrete cover slab.	M	3		
	PAINTING				

1.35	Apply undercoat to external walling Ditto cream paint	M2	50		
1.36	Ditto Bermuda blue paint 600mm from bottom of tank and 600mm from top of tank	M2	50		
1.37	Provide and tie mosquito gauze to the G.S bend opening to air vents above the tank roof cover slap.	No	3		
1.38	Provide for appropriate paintwork, Islamic Relief Logo and Project details on either side of the tank.	Item	1		
Sub-total carried out to summary					
	Tank-Associated pipe work				
Provide, handle cut and fix the following pipe fittings as per the drawing.					
	Intake				
1.38	50mmΦ G.I pipe	No	1		
1.39	50mmΦ G.I bend	No	3		
1.4	50mmΦ G.I Socket	No	1		
1.41	50mmΦ G.I nipple	No	1		
1.42	50mmΦ G.I elbow	No	1		
	Offtake				
1.43	50mmΦ G.I pipe	No.	2		
1.44	50mm ΦG.I tee	No	2		
1.45	50mmΦ bend	No	2		
1.46	50mmΦ plain screwd flanges	No.	2		
1.47	3mm thick rubber gasket	M2	1		
1.48	50mm x 40mmΦ G.I reducing bush	No	3		
1.49	50mmΦ Peglar(UK) gate valve	No	1		
	Overflow pipe				
1.5	50mmΦ G.I pipe	M	1		
1.51	50mmΦ G.I socket	No	1		
1.52	50mmΦ G.I Plain flange	No	1		
1.53	50mmΦ G.I bend	No	1		
	Scour pipe				
1.54	50mmΦ G.I pipe	No.	1		
1.55	50mmΦ plain G.I flange	No	1		
1.56	50mm ΦG.I nipple	No	2		
1.57	50mmΦG.I bend	No	1		
1.58	50mmΦ G.I socket	No	2		
1.59	50mmΦG.I union	No	1		
1.6	50mmΦpeglar(UK) gate valve	No	1		
	Pipes and Fittings.				
1.61	Supply and lay 63MM hdpe pipes PN 16	m	150		

1.62	Supply and lay 2" G.I pipes class C	m	24		
1.62	Supply and fix the following fittings:				
1.63	2" GI Equal Tee	No	2		
1.63	2" x 63mm HDPE adaptor	No	6		
1.64	2" G.I Elbow	No	4		
1.64	2"x 1" GI red Tee	No	2		
1.65	1" Valve sockets	No	2		
1.65	1"x 3/4" reducing brush G.I	No	2		
1.66	2" Pegler gate valve	No	2		
1.66	Excavate trench size 0.2x0.8m and backfill the same after pipe laying for the above line	m	124		
	Sub Total Total				
	Sub-total carried to summary				
Element No. 1					
	24g Galvanised mildsteel sheeting;all weilds ground smooth				
A.1	150 x100mm box gutter including soldered joints in the running length fixed to fascia board with and including brackets at approved centers	LM	42		
A.2	Extra; for blocked ends with 75mm diameter outlet 100mm long	No	4		
A.3	75mm diameter pvc pipe bends	No.	4		
A.4	75mm diameter rainwater delivery pipe connected to plastic tanks	LM	12		
A.5	Mosquito -net with straining wire	m2	2		
	Total for Rain water Goods				
	Water Connection				
B.1	Excavate trenches fto receive pipe commencing from ground levels not exceeding 0.6m deep and backfill	LM	3600		
B.2	Provide assorted 25mm-(2000M) PPR,32mm HDPE/PPR(1600M) pipes including jointing, fittings and connect water line to the new tank	LM	3600		
B.3	Supply and instal uk made 25mm gate valve (pegla)	No.	1		
B.4	Construct standard Vavle chamber with locable cover (0.6 X 0.6 X 0.6m)	No.	1		
B.5	Float Valve	No.	1		
	Total for Water Connection				

	SUMMARY				AMOUNT
	EARTH WORKS				
	CONCRETE WORKS.				
	REINFORCEMENT BARS				
	WALLING				
	FINISHES				
	TANK-ASSOCIATED PIPE WORK				
	RAINWATER GOODS				
	WATER CONNECTION TO COMMUNITY LINE				
	GRAND TOTAL				