

**SOMALIA RESILIENCE PROGRAM-SOMREP CONSORTIUM AUSTRALIA DFAT 5 PROJECT IN BELETHAWA AND  
DOLOW DISTRICTS**

**CONTRACT NO: SOMREP AUSTRALIA DFAT 5 PROJECT  
PUBLICATION REF: SOMREP DFAT5/003/2018**

**SUBJECT: REQUEST FOR QUOTATIONS FOR CONSTRUCTION OF MULTI-USE WATER SYSTEM IN ARABO VILLAGE  
BELET-HAWA DISTRICT, GEDO REGION -SOUTHERN SOMALIA.**

**COOPERAZIONEINTERNAZIONALE (COOPI)** is implementing a Somalia Resilience Programme in Dolow and Belethawa Districts, Gedo Region, Southern Somalia. The goal of the project is “Increase the resilience of chronically vulnerable people, HHs, communities and systems in targeted pastoral, agro-pastoral and peri-urban livelihood zones”. One of the main result of this project is “ Improved adaptive capacity of individuals (disaggregated by AGD) ,HHs and communities through suport to livelihood diversification”. As part of the activities supporting this result, COOPI intends to construct multi-use water system in Arabo village Belet-hawa District.The quotation should include delivery of the above mentioned construction works in Dolow district. Submitted bids should indicate the price per unit and should be valid for a period of **90** days from the date of the bid.

COOPI invites qualified contractors to collect quotation bidding documents as specified herein below.

The quotations should be addressed to **COOPERAZIONE INTERNAZIONALE (COOPI)** in sealed envelope marked **SOMREP DFAT5/003/2018 “CONSTRUCTION OF MULTI-USE WATER SYSTEM IN ARABO VILLAGE BELET-HAWA DISTRICT, GEDO REGION -SOUTHERN SOMALIA”**.

Costs incurred by the supplier in preparing and submitting the quotation will not be reimbursed.

Soft copy of tender documents (tender notice/dossier) with detailed specifications can be obtained from Somalia NGO Consortium Website [www.somaliangoconsortium.org/career](http://www.somaliangoconsortium.org/career) as from **Sep 29<sup>th</sup>, 2018**.

The deadline for submitting the Bid is **15.00 hours, East African Time on October 13<sup>th</sup>, 2018** at the **COOPI Mogadishu Office**. Any tender received after this deadline will not be considered.

Yours Sincerely

Program Manager

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**A. RECEIPT OF THE REQUEST FOR QUOTATION DOCUMENT BY THE CONTRACTORS**

We hereby declare that Mr. / Mrs.....

Company Position.....from the company .....

Received the invitation referred to **CONSTRUCTION OF MULTI-USE WATER SYSTEM IN ARABO VILLAGE BELET-HAWA DISTRICT, GEDO REGION -SOUTHERN SOMALIA**, by quotation reference number-----  
-----

On the date .....

Signature..... Stamp

## **B. INSTRUCTIONS TO TENDERERS**

**PUBLICATION REF: SOMREP DFAT5/003/2018**

### **1. Tasks to be executed**

- 1.1. **Cooperazione Internazionale (COOPI)** is implementing a Somalia Resilience Programme in Dollow and Belet-hawa Districts, Gedo Region, Southern Somalia. The purpose of the project is “Increase the resilience of chronically vulnerable people, HHs, communities and systems in targeted pastoral, agro-pastoral and peri-urban livelihood zones”.
- 1.2. The subject of the contract is the following:  
**CONSTRUCTION OF MULTI-USE WATER SYSTEM IN ARABO VILLAGE BELET-HAWA DISTRICT, GEDO REGION -SOUTHERN SOMALIA**
- 1.3 Only bids complete with all the quantities and specifications as required in **Annex VI** will be taken into consideration.

### **2. Participation**

- 2.1. All qualified contractors in Somalia and able to work in **Belet-Hawa** District are eligible for participation in the bidding but the contractors must prove they have a curriculum with relevant prior experiences in the field and in NGO’s projects. Contractors must also prove to the Contracting Authority that they comply with the necessary legal, technical and financial requirements. **COOPI** reserves the right to ask for more documentation.
- 2.2. The contracting authority will exclude from participation in a procurement procedure any contractor falling into any of the following cases:
  - a. They are bankrupt or being wound up, are having their affairs administered by the courts, have entered into an arrangement with creditors, have suspended business activities, are the subject of proceedings concerning those matters, or are in any analogous situation arising from a similar procedure provided for in national legislation or regulations;
  - b. They have been convicted of an offence concerning their professional conduct by a judgment that has the force of res judicata;
  - c. They have been guilty of grave professional misconduct proven by any means that the contracting authority can justify;
  - d. They have not fulfilled obligations relating to the payment of social security contributions or the payment of taxes in accordance with the legal provisions of the country in which they are established or with those of the country of the contracting authority or those of the country where the contract is to be performed;
  - e. They have been the subject of a judgment that has the force of res judicata for fraud, corruption, involvement in a criminal organization or any other illegal activity detrimental to the Communities' financial interests;
  - f. Following another procurement procedure or grant award procedure financed by the Community budget, they have been declared to be in serious breach of contract for failure to comply with their contractual obligations.

Contractors have to declare in writing they are not in one of the situations listed above.

2.3 Contracts shall not be awarded to contractors who, during the procurement procedure:

- a. Are subject to a conflict of interest;
- b. Are guilty of misrepresentation in supplying the information required by the humanitarian organisation as a condition of participation in the contract procedure or fail to supply this information.
- c. Contractors who have been guilty of making false declarations will also incur financial penalties representing 10% of the total value of the contract being awarded. That rate may be increased to 20% in the event of a repeat offence within five years of the first infringement.

2.4 To be eligible for participation in this tender procedure, contractor must prove to the satisfaction of the Contracting Authority that they comply with the necessary legal, technical and financial requirements and have the wherewithal to carry out the contract effectively.

### **3. Submission of Tenders**

3.1. Required documentation

1. Contractors should provide the following documentation:

- A. Company Registration Certificate (Pin No., Registration with Local Authorities as applicable etc).
- B. A duly stamped Bank Statement proving ownership of a commercial bank account or evidence of professional risk indemnity insurance.
- C. Statement of the overall turnover concerning the supplies covered by the contract during a period which may be no more than the last three financial years.
- D. A Company profile in order to proof technical and professional capacity. These have to include the following information's:
  - A list of the principal activities realized in the past three years, with the sums, dates and recipients, public or private.
  - A description of the measures employed to ensure the quality of the activities.
  - Description of structures, instruments and equipment that will be used to accomplish the contract.
  - An indication of the technicians or technical bodies involved, whether or not belonging directly to the firm, responsible for the maintenance of the equipment.
  - Statement of the average workforce employed every year in the last three years and of the number of Managers.
  - CV of at least 3 managers/ technical staff that the company will involve in the implementation of these tender activities.

## 2 Ethical Manufacturing Standards Declaration (Annex IV)

This is a signed statement declaring, under their responsibility, that all of the activities/works offered have to be realized in accordance with international rules against exploitation of child labour and gender discrimination.

## 3. Financial Offer:

The offer must be drawn up using the BoQs form annexed to the present invitation to quote and following **COOPI** guidelines. The BoQs form can be typed or hand-written with indelible ink. All sections of the form (**Annex V**) must be completed. For being eligible the financial offer **MUST**:

- Offered prices must be quoted in USD.
- Offered prices shall be VAT included (where applicable).
- Offered prices should be inclusive of delivery and transportation costs of the materials to the target project sites. **No additional fee will be paid for transportation.**
- Price must be valid and fixed for a period of **90 days** from the deadline of the offer submission. **No modification will be accepted from the moment the offer is received.**

### 3.1. Presentation of bid

- a) Offers must be received before the deadline which is on **October 13<sup>th</sup>, 2018 at 15:00 hours (EAT)**.
- b) ***Quotations bids, inclusive of all the documents above, must be closed in a sealed envelope. All quotation bids must be received at the COOPI Mogadishu Office.***

The envelope **must be sealed** and bear only:

- The address for submission of Quotations
- The reference of the Quotation request.
- The name of the Contractor

**Any infringement of this requirement (e.g. unsealed envelopes) will be regarded as a breach of the rules and will lead to rejection of the Bid.** The tender bids, will be registered by **COOPI** in an appropriate document immediately after reception and the bidder will receive prove of its consignment. This deadline has to be considered as a fix term and **COOPI** will not accept any delay justification *even if due to the post service*.

## 4. Additional information

- 4.1. If the Contracting Authority, either on its own initiative or in response to a request from a prospective contractor, provides additional information on the bid dossier, it must send such information in writing to all other prospective contractors at the same time.

- 4.2. Any prospective contractor seeking to arrange individual meetings with the Contracting Authority during the tender period may be excluded from the bid procedure.

## 5. Bids Evaluation

5.1 COOPI will evaluate the bids on the basis of the following criteria, from the highest to the lowest:

- Curriculum of the company (especially relevant prior experience in the field and in NGO or International Agency projects)
- All legal requirements as per of operation e.g certificate of registration etc.
- Bid Value,
- Delivery Time.

**Any bidder failing to adhere to the tender procedures will automatically be disqualified.**

5.2 The Evaluation steps will be:

a) **Examination of the administrative conformity of Bids**

The aim at this stage is to check that bids comply with the essential requirements. A bid is deemed to comply if it satisfies all the conditions, procedures and specifications in the quotation dossier without substantially departing from or attaching restrictions to them.

b) **Technical Evaluation**

After analyzing the bid deemed to comply in administrative terms, the evaluation committee will rule on the technical admissibility of each bid, classifying it as technically compliant or non-compliant. The technical evaluation will be based on both the task to be carried out under the bid, and the professional ability of the contractor. Decisions to the effect that a bid is not technically compliant must be duly justified in the evaluation minutes.

To facilitate the examination, evaluation and comparison of bids, the evaluation committee may ask each contractor individually for clarification of their bid, including breakdowns of prices. The request for clarification and the response must be in writing only, but no change in the price or substance of the bid may be sought, offered or permitted, except to correct arithmetical errors or formulae.

c) **Financial Evaluation**

The rates and prices inserted in the bill of quantities must correspond to the conditions laid down in the quotation documents. The financial and economic standing of the contractor will be evaluated by the evaluation committee.

### 6.1 **Award criteria**

The evaluation committee will not necessarily choose on the basis of lowest price alone but will award one of received offer on the basis of value for money, price, quality, compliance with international norms, and delay for delivery. The experience of the contractor in the performance of similar contracts will be as well a criterion for selection

## 6. Language of Offers

All correspondence and documents related to the quotation procedure, contracts and reporting shall be written in English.

## 7. General conditions of the contract agreement

- Payments shall be approved by **COOPI Regional Representative** and made in **USD** only by bank transfer after the presentation of regular invoices backed by certificate of interim or completion of works from the engineer.
  - Payments will be made by **COOPI Office in Nairobi** through bank transfer with the following schedule time
  - 90% (ninety) of the contract price shall be paid after 30 (thirty) days upon completion of the entire delivery and acceptance of the goods issued within stipulated time of the delivery
  - 10% (ten) of the contract price, as payment of the balance outstanding, following final acceptance of the construction works and issuance of certificate of completion, maximum after 30 (thirty) days.
- 
- The successful contractor will be informed in writing that their tender has been accepted (notification of award).
  - **COOPI** reserves the right to apply to the supplier a penalty of 500 (five hundred) USD for each day of delay in the foreseen delivery time.

## 8. Ethics Clauses

- 8.1 Any attempt by a candidate or contractor to obtain confidential information, enter into unlawful agreements with competitors or influence the committee or the Contracting Authority during the process of examining, clarifying, evaluating and comparing bids will lead to the rejection of their candidacy or bid and may result in administrative penalties.
- 8.2 Without the Contracting Authority's prior written authorisation, a contractor and its staff or any other company with which the contractor is associated or linked may not, even on an ancillary or subcontracting basis, supply other services, carry out work or supply equipment for the project. This prohibition also applies to any other projects that could, owing to the nature of the contract, give rise to a conflict of interest on the part of the Contractor.
- 8.3 When putting forward a candidacy or bid, the candidate or contractor shall declare that he is affected by no potential conflict of interest and has no particular link with other contractor or parties involved in the project. Should such a situation arise during performance of the contract, the Contractor must immediately inform the Contracting Authority.
- 8.4 The Contractor must at all time act impartially and as a faithful adviser in accordance with the code of conduct of his profession. The Contractor shall refrain from making public statements about the project or services without the Contracting Authority's prior approval. The Contractor may not commit the Contracting Authority in any way without its prior written consent.
- 8.5 For the duration of the contract the Contractor and its staff shall respect human rights and undertake not to offend the political, cultural and religious mores of the beneficiary state.



- 8.6 The Contractor may accept no payment connected with the contract other than that provided for therein. The Contractor and their staff must not exercise any activity or receive any advantage inconsistent with their obligations to the Contracting Authority.
- 8.7 The Contractor and their staff shall be obliged to maintain professional secrecy for the entire duration of the contract and after its completion. All reports and documents drawn up or received by the Contractor shall be confidential.
- 8.8 The contract shall govern the Contracting Parties' use of all reports and documents drawn up, received or presented by them during the execution of the contract.
- 8.9 The Contractor shall refrain from any relationship likely to compromise her/his independence or that of their staff. If the Contractor ceases to be independent, the Contracting Authority may, regardless of injury, terminate the contract without further notice, and without the Contractor having any claim to compensation
- 8.10 The Contracting Authority reserves the right to suspend or cancel project financing if corrupt practices of any kind are discovered at any stage of the award process and if the Contracting Authority fails to take all appropriate measures to remedy the situation. For the purposes of this provision, "corrupt practices" are the offer of a bribe, gift, gratuity or commission to any person as an inducement or reward for performing or refraining from any act relating to the award of a contract or implementation of a contract already concluded with the Contracting Authority.
- 8.11 All bids will be rejected or contracts terminated if it emerges that the award or execution of a contract has given rise to unusual commercial expenses.
- 8.12 Such unusual commercial expenses are commissions not mentioned in the main contract or not stemming from a properly concluded contract referring to the main contract, commissions not paid in return for any actual and legitimate service, commissions remitted to a tax haven, commissions paid to a recipient who is not clearly identified or commissions paid to a company which has every appearance of being a front company.
- 8.13 The Contractor shall supply the Contracting Authority on request with all supporting documents relating to the conditions of the contract's execution. The Contracting Authority may carry out whatever documentary or on-the-spot checks it deems necessary to find evidence in cases of suspected unusual commercial expenses.
- 8.14 When putting forward a candidacy or bid, the candidate or contractor shall declare its commitment to the non-exploitation of child labour and to the respect of basic social rights and working conditions. The Contracting Authority may carry out whatever documentary or on-the-spot checks it deems necessary to find evidence of the enforcement of the above mentioned principles.

## **9. Cancellation of the Quotation Procedure**

9.1 In the event of a quotation procedure's cancellation, contractors will be notified by the Contracting Authority. If the quotation procedure is cancelled before of any bid has been opened, the sealed envelopes will be returned, unopened, to the contractors.

9.2 Cancellation may occur where:

- The bidding procedure has been unsuccessful, namely where no qualitatively or financially worthwhile quotations has been received or there has been no response at all;

- The economic or technical parameters of the project have been fundamentally altered;
- Exceptional circumstances or force majeure render normal performance of the project impossible;
- All technically compliant quotations exceed the financial resources available;
- There have been irregularities in the procedure, in particular where these have prevented fair competition.

9.3 In no circumstances will the Contracting Authority be liable for damages, whatever their nature (in particular damages for loss of profits) or relationship to the cancellation of a bid, even if the Contracting Authority has been advised of the possibility of damages. The publication of a procurement notice does not commit the Contracting Authority to implement the program or project announced.

9.4 The Contractor shall provide any detailed information requested by the Contracting Authority, the Donor, the European Anti-Fraud Office (OLAF), and the Court of Auditors, or by any other qualified outside body chosen by the Donor or by the Contracting Authority for the purposes of checking that the activities implemented in the context of the present contract are being properly carried out.

## **10. Rule of Origin**

According to the Common Implementing Rules (CIR) and considering the total amount involved, this tender procedure benefits from the general derogation to the rule of origin for supplies.

## ***C. ANNEXES***

**Annex I: BID FORM**

**TITLE OF CONTRACT: CONSTRUCTION OF MULTI-USE WATER SYSTEM IN ARABO VILLAGE BELET-HAWA DISTRICT, GEDO REGION -SOUTHERN SOMALIA**

**PUBLICATION REF: SOMREP DFAT5/003/2018**

Place.....,

Date .....

**To: COOPERAZIONE INTERNAZIONALE (COOPI)  
Mogadishu Office**

**1 SUBMITTED BY**

	Name(s) of Contractor(s)	Nationality
Leader		
Partner 1*		
Etc ... *		

\* add/delete additional lines for partners as appropriate. Note that a subcontractor is not considered to be a partner for the purposes of this quotation procedure. If this bid is being submitted by an individual contractor, the name of the contractor should be entered as 'leader' (and all other lines should be deleted)

**2 CONTACT PERSON (for this Tender)**

<b>Name</b>	
<b>Address</b>	
<b>Telephone</b>	
<b>Fax</b>	
<b>E-mail</b>	

**Annex II: CONTRACTOR'S DECLARATION(S)**

**TITLE OF CONTRACT: CONSTRUCTION OF MULTI-USE WATER SYSTEM IN ARABO VILLAGE BELET-HAWA DISTRICT, GEDO REGION -SOUTHERN SOMALIA  
PUBLICATION REF: SOMREP DFAT5/003/2018**

**To be Completed and signed by the Contractor (including one from each partner in a consortium).**

In response to your letter of invitation to bid for the above contract, we, the undersigned, hereby declare that:

1. We have examined and accept in full the content of the dossier for invitation to tender **SOMREP DFAT5/003/2018 of Sep 29<sup>th</sup>, 2018**. We hereby accept its provisions in their entirety, without reservation or restriction.
2. We offer to deliver, in accordance with the terms of the quotation dossier and the conditions and time limits laid down, without reserve or restriction.
3. This tender is valid for a period of (.....) days from the final date for submission of tenders, i.e. until (...../...../.....).
4. We are submitting this application in our own right and (as partner in the consortium led by [*name of the leader / ourselves*] for this bid. We confirm that we are not bidding for the same contract in any other form. (We confirm, as a partner in the consortium, that all partners are jointly and severally liable by law for the performance of the contract, that the lead partner is authorized to bind, and receive instructions for and on behalf of, each member, that the performance of the contract, including payments, is the responsibility of the lead partner, and that all partners in the joint venture/consortium are bound to remain in the joint venture/consortium for the entire period of the contract's performance).
5. We also understand that if we fail to provide this proof within 15 calendar days after receiving the notification of award, or if the information provided is proved false, the award will be considered null and void.
6. We agree to abide by the ethics clauses that we have no potential conflict of interests or any relation with other candidates or other parties in the tender procedure at the time of the submission of this application.
7. We will inform the Contracting Authority immediately if there is any change in the above circumstances at any stage during the implementation of the contract. We also fully recognize and accept that any inaccurate or incomplete information deliberately provided in this application may result in our exclusion from this and other contracts funded by the European Communities.
8. We note that the Contracting Authority is not bound to proceed with this invitation to bid and that it reserves the right to award only part of the contract. It will incur no liability towards us should it do so.

Name and Surname: (.....)

Duly authorized to sign this tender on behalf of:

(.....)

Place and date: (.....)

Stamp of the firm/company:



**Annex III: Declaration for Undertaking by Contractor**

**TITLE OF CONTRACT: CONSTRUCTION OF MULTI-USE WATER SYSTEM IN ARABO VILLAGE BELET-HAWA DISTRICT, GEDO REGION -SOUTHERN SOMALIA**

**PUBLICATION REF: SOMREP DFAT5/003/2018**

**To be Completed and signed by the Contractor (including one from each partner in a consortium).**

I, the undersigned ..... owner/legal Representative of the company..... declare under my legal responsibility that we are **NOT** in any of the situations excluding us from participating in contracts which are listed hereinafter,

- a. Bankrupt or being wound up, are having their affairs administered by the courts, have entered into an arrangement with creditors, have suspended business activities, are the subject of proceedings concerning those matters, or are in any analogous situation arising from a similar procedure provided for in national legislation or regulations;
- b. Been convicted of an offence concerning their professional conduct by a judgment that has the force of res judicata;
- c. Been guilty of grave professional misconduct proven by any means that the contracting authority can justify;
- d. Have not fulfilled obligations relating to the payment of social security contributions or the payment of taxes in accordance with the legal provisions of the country in which they are established or with those of the country of the contracting authority or those of the country where the contract is to be performed;
- e. Been the subject of a judgment that has the force of res judicata for fraud, corruption, involvement in a criminal organisation or any other illegal activity detrimental to the Communities' financial interests;
- f. Following another procurement procedure or grant award procedure financed by the Community budget, they have been declared to be in serious breach of contract for failure to comply with their contractual obligations.

In the event that our quotation is successful, we undertake to provide the proof usual under the law of the country in which we are established that we do not fall into the exclusion situations listed in article 2. The date on the evidence or documents provided will be no earlier than 180 days before the deadline for submission of tenders and, in addition, we will provide a sworn statement that our situation has not altered in the period which has elapsed since the evidence in question was drawn up.

Name and Surname: (.....)

Duly authorized to sign this tender on behalf of: (.....)

Place and date: (.....)

Stamp of the firm/Company:



**Annex IV: ETHICAL MANUFACTURING STANDARD DECLARATION**

**TITLE OF CONTRACT: CONSTRUCTION OF MULTI-USE WATER SYSTEM IN ARABO VILLAGE BELET-HAWA DISTRICT, GEDO REGION -SOUTHERN SOMALIA**

**PUBLICATION REF: SOMREP DFAT5/003/2018**

**To be Completed and signed by the Contractor (including one from each partner in a consortium).**

In response of your letter of invitation to bid for the above contract, we, the undersigned, hereby declare that all the works offered will be realized in accordance with International Rules against exploitation of child labour and gender discrimination, as well as in the respect of basic social rights and working conditions.

Name and Surname: (.....)

Duly authorised to sign this tender on behalf of: (.....)

Place and date: (.....)

Stamp of the firm/Company:

## ANNEX V: LOCATIONS & FINANCIAL OFFER (BILL OF QUANTITIES)

**TITLE OF CONTRACT: CONSTRUCTION OF MULTI-USE WATER SYSTEM IN ARABO VILLAGE BELET-HAWA DISTRICT, GEDO REGION -SOUTHERN SOMALIA**

**PUBLICATION REF: SOMREP DFAT5/003/2018**

**Location of the Target Location for Construction of Multi-Use Water System**

No	Location	GPS coordinates	
		N	E
1	Arabo	3.955691	41.92878



**ANNEX V: FINANCIAL OFFER (BILL OF QUANTITIES)**

**TITLE OF CONTRACT: CONSTRUCTION OF MULTI-USE WATER SYSTEM IN ARABO VILLAGE BELET-HAWA DISTRICT, GEDO REGION -SOUTHERN SOMALIA**  
**PUBLICATION REF: SOMREP DFAT5/003/2018**

Indicate Delivery time/Period of Execution (**obligatory**): \_\_\_\_\_

**1. BILL OF QUANTITIES FOR CONSTRUCTION OF MULTI-USE WATER SYSTEM IN ARABO VILLAGE BELET-HAWA DISTRICT, GEDO REGION -SOUTHERN SOMALIA**

<b>QUOTATION FOR LOT1 - CONSTRUCTION OF 1NO. MULTI-USE WATER SUPPLY SYSTEM IN ARABO VILLAGE</b>					
<b>S/N</b>	<b>DESCRIPTION</b>	<b>M. UNIT</b>	<b>QTY</b>	<b>UNIT PRICE USD</b>	<b>TOTAL PRICE USD</b>
<b>A</b>	<b>Construction of new well: 9 m deep and 1.2 m diameter</b>				
1	Auger drills the selected site to profile the water levels more especially the static water level. The water shall be tested for salinity. Two possible auger drills are possible per site but one is recommended.	item	1		
2	Excavation of shallow well of 1.2 m diameter to 9 m depth. This cost includes supporting of the well sides to prevent collapse: Insitu laying of concrete rings is recommended.	cum	10.173 6		
3	Laying of concrete rings of diameter 1.2 m. Depth of each ring is recommended to be 900 m deep if precast. The well apron to be included in which case one extra ring above ground shall be laid.	pc	11		
4	Excavation foundation of the apron of the shallow well 16mx0.40mx0.40m	cum	2.56		
5	Stone construction of well apron 16mx0.40mx0.40m	cum	2.56		
6	Hard core filling inside of the apron well 4mx4mx0.30m	cum	4.8		
7	RCC slab on the apron of the shallow well 1mx1mx0.05m (1:2:4) with No Y8 @200 c/c	cum	1.6		
6	RCC slab cover of the shallow well 1mx1mx0.05m (1:2:4) with Y10 bars	cum	0.05		
7	Plastering outside of the apron wall of shallow well 16mx0.5m (1:4)	sqm	8		
8	Supply RCC rings and their installation	pc	5		
9	Renting water pump engine that pumping water from shallow well during excavation including plastic pipes, Fuel and labour cost	LS	1		
	<b>Total cost of the New shallow well</b>				
<b>B</b>	<b>Elevated Water tank</b>				
1	Excavation of column footing foundation and foundation sides of the elevated water tank the 9(1mx1mx0.50m) + 30mx0.40mx0.50m	cum	19.5		

2	Compact hard core stone for base of the footing 9(1mx1mx0.25m)	cum	2.25		
3	Lean concrete of the footing base and foundation sides of the elevated water tank (1:3:6) with 9(1mx1mx0.05) +30mx0.40mx0.05m	cum	1.05		
4	RCC footing (1:2:4) with 9( 1mx1mx1.3m)(1:2:4) with NoY14 bars	cum	11.7		
5	Construction of the foundation between one footing to one footing 30mx0.40mx0.40m	cum	4.8		
6	RCC beam on the ground (1:2:4) 43.2mx0.40mx0.20m with 4Y12 bars &R6@200mm c/c	cum	3.456		
7	Hard core filling on the ground 6mx6mx0.1m	cum	3.6		
8	Ground floor slab (1:3:6) (6mx6mx0.1m)	cum	3.6		
9	RCC column plate form fixing (9mx1.6mx6m)	sqm	86.4		
10	RCC concrete columns 9(0.40mx0.40mx6m)(1:2:4) with 4y14bars & R8 @200MM C/C	cum	8.64		
11	RCC beam on the middle of the elevated water tank (43.2mx0.40mx0.25m) (1:2:4) with 4y12bars & R8 @200MM	cum	4.32		
12	RCC beam at top of the water tank (43.2mx0.40mx0.30m) (1:2:4) with 4y12bars & R8@200MM C/C	cum	5.184		
13	Plate form making for RCC concrete water tank slab 7.2mx7.2 base +28.8mx0.15m wall	sqm	56.16		
14	RCC water tank slab base concrete 7.2mx7.2mx0.15m (1:2:4) with Y14@200mm c/c	cum	7.776		
15	RCC water tank walls concrete 28mx0.13mx1.5m (1:2:4) with Y12 @200MM C/C	cum	5.46		
16	Plastering elevated water tank(1:4)	sqm	115.68		
17	RCC slab of water tank cover (1:2:4) 7.2mx7.2mx0.05m with Y8@0.15M C/C	sqm	2.592		
18	0.05 thick cement finishing of the inside of the water tank	sqm	78		
19	White washing of the outside of the elevated water tank and the columns	sqm	115.68		
20	supply and fixing iron stair 8m height	LS	1		
21	fix donors and COOPI visibility board	pc	1		
	<b>Total cost of elevated water tank</b>				
<b>C</b>	<b>Construction water KIOSK room</b>				
1	Excavation of the foundation of KIOSK room 12.8mx0.40mx0.50m	cum	2.56		
2	Construction foundation with 0.1m deep upper ground level 12.8mx0.40mx0.60m	cum	3.072		

3	RCC beam upper foundation 12.8mx0.40mx0.2m (1:2:4) with 4Y10 and R6 @200MM C/C	cum	1.024		
4	Hard core filling on the floor 3mx3mx0.2m	cum	1.8		
5	Flooring 3mx3mx0.1m	cum	0.9		
6	Hallow brick wall construction of the room 12.8mx3m	sqm	38.4		
7	RCC beam of lintels of the room (1:2:4) 12.8mx0.20mx0.20m (1:2:4) with 4Y10 and R6@200MM C/C	cum	0.512		
8	RCC top ring beam construction (1:2:4) 12.8mx0.20mx0.20m(1:2:4)with 4Y10 and R6 @200MM C/C	cum	0.512		
9	30 gauge Roofing of the room	sqm	10.24		
10	Plastering of the wall	sqm	87.04		
11	Painting and finishing	sqm	87.04		
12	fix donors and COOPI visibility board	pc	1		
	<b>Total of one water KIOSK room</b>				
<b>D</b>	<b>Animal trough construction</b>				
1	Excavation of the truch of the foundation of animal trough 17.6m/0.40m/0.50m	cum	3.52		
2	Hard core stone filling 7mx1mx0.1m	cum	0.7		
3	Construction of the foundation of animal trough 17.6mx0.40mx0.50m	cum	3.52		
4	RCC concrete slab on the floor 7.4mx1.4mx0.1m (1:2:4)	cum	1.036		
5	Construction of animal trough walls 17.6mx0.2mx0.50m	cum	1.76		
6	Plastering inside and outside of the animal trough walls 35.2mx0.50m(1:4)	sqm	17.6		
7	0.05 Cement finishing inside of the animal trough	sqm	8.8		
	<b>Total cost of one animal trough</b>				
<b>E</b>	<b>Water installation</b>				
1	Inlet iron pipe (2inch) from well to the water tank 6M	PC	6		
2	Outlet iron pipe (3inch) from elevated water tank to the ground 6M	pc	4		
3	Hard plastic water pipe high pressured (3inch) (class C) 6M for each, from shalow well to water tank to the village (water KIOSK ) the distance from shallow well to elevated water tank 9km maximum	PC	1550		
4	T- joint	pc	2		
5	G-Valve (2inch)	pc	2		
6	Elbow	pc	4		

7	Valves	pc	8		
8	Water KIOSK	PC	2		
9	Glue fax	kg	10		
10	Excavation water truch of water pipe installation 9000mx0.30mx0.50m	cum	1350		
11	Labour work cost of water pipe installation	LS	1		
12	Install Water level electrodes for shallow well -30 m length complete with electrodes.	NO	1.00		
13	fix donors and COOPI visibility board	pc	1		
<b>Total cost of the water installation</b>					
<b>SOLAR PUMPING SYSTEM: Depth of the well is 10m, total head of the pump is 50m. Discharge of the well is12m3/hr-15m3/hr. The estimated power of the solar pump is about 2.5KW</b>					
<b>SOLAR PUMPING SYSTEM</b>					
S/N	DESCRIPTION	M. UNIT	QTY	UNIT PRICE USD	TOTAL PRICE USD
1	Proposed suitable pump Lorentz PS1800 C-SJ5-12	NO	1.00		
2	Control Unit - suitable for the pump Lorentz PS2-1800 Controller-1.8kVA	unit	1.00		
3	Solar Modules-250 Watts each(suitable for pump) Jinko 270W solar	NO	12.00		
4	6mm Square Flat Submersible drop cable	meter	50.00		
5	Well Probe Sensor	Unit	1.00		
6	Well Probe Cable	Metre	50.00		
7	Submersible Cable Joint	pcs	1.00		
8	Modules Mounting Structure	lot	1.00		
9	Miscellaneous/Accessories uPVC pipes 3m length	lot	1		
10	6mm2 Flat Submersible Drop Cable	meter	1.00		
11	6mm2 x 1 Core Earth Cable	meter	25.00		
12	Earth Rod c/w Clamp	NO	1.00		
13	Installation sundries	NO	1		
<b>TOTAL</b>					
<b>(20M x 20M )EXTERNAL FENCING</b>					
S/N	DESCRIPTION	M. UNIT	QTY	UNIT PRICE USD	TOTAL PRICE USD
<b>1.0</b>	<b><u>EXCAVATION AND EARTH WORK</u></b>				
1.1	clear the perimeter of the fencing area of all bushes scrubs and abstraction	sm	20.00		
1.2	Excavation for the foundation of masonry work 50cmx1mx20m	m2	10.00		

1.3	construct masonry wall 1mx20mx50cm	m <sup>3</sup>	10.00		
1.4	Cart away the excess excavated material to a convenient place of a maximum distance 5kms.	m <sup>3</sup>	8.00		
	<b>SUM</b>				
<b>2.0</b>	<b>CONCRETE WORK</b>				
2.1	Supply and erect LHS metal of 3.5 meter high and 40 cm is embedded to the masonry wall with concrete c/c spacing of 80cm.The work includes supply of material, labor and all necessary work as directed by the engineer.	NO	100.00		
2.2	Supply and cover the fence using Barbed wire 40cm embedded into masonry wall. The work includes supply of material, labor as per the drawing and all necessary work as directed by the engineer.	NO	188.00		
	<b>Main Gate door</b>				
2.3	Construct a grill metal door using RHS with 80 x80 x 3mm posts, horizontal RHS 40 x40 x2mm c/c 15cm spacing and all the necessary hinges, locks. The work includes supply of material, welding, erecting the doors by embedding the posts 40 cm to the soil using concrete and fixing the gate in the exact position. Size ( 3.5m x 2m )	NO	1.00		
	<b>SUM</b>				
	<b>TOTAL COST FOR CONSTRUCTION OF ONE FENCE</b>				
<b>N.B</b>	<b>All the materials should be good quality and approved by the client before installation</b>				
<b>Grand Total Offer for Arabo multi-water use system</b>					
<b>Total Offer in USD</b>					
<b>Time for Delivery</b>	4 weeks upon signing the Contract				
<b>Payment Terms</b>	100% After Delivery				
<b>Supplier Details:</b>					
Company Name: .....			Contact Person: .....		
Company's Rep. I/D or passport copy			Role/Position:.....		
Official Stamp .....		Other .....			
Telephone n. ....					
Signature .....		Date .....			

## ANNEX VI: DESIGNS AND TECHNICAL SPECIFICATIONS

**TITLE OF CONTRACT: CONSTRUCTION OF MULTI-USE WATER SYSTEM IN ARABO VILLAGE BELET-HAWA DISTRICT, GEDO REGION -SOUTHERN SOMALIA**  
**PUBLICATION REF: SOMREP DFAT5/003/2018**

### 1. TECHNICAL SPECIFICATIONS

#### General Technical Specifications

#### 1. MATERIALS AND WORKMANSHIP

Each and every part of the works shall be designed, constructed, manufactured, tested and installed accordance with the internationally recognized standard, code of practice, or regulations applicable to that part of the works. The materials and workmanship unless otherwise specified, in these specifications shall be in accordance with the general specifications as per the FIDC and or British Standards FIDIC/British Standards. Any other descriptions shall be according to the attached bill of quantities and drawings. Consideration of people with disabilities is also catered for in these specifications and the contractor is obliged to comply with the specifications, BOQs and Drawings.

##### 1.1. Materials

All materials, to be used in the execution of the works by the contractor in this contract shall conform to FIDIC (International Federation of Consulting Engineers) Standards, International standards organization (ISO), British standards specifications (BSS), or other applicable standards in Somalia unless otherwise specifically stated.

Before incorporation in the works the respective contractor shall submit to the Supervising Engineer for approval a sample of each respective materials and such samples shall be in his/her office for reference.

##### 1.2 Workmanship and Equipment

The materials and workmanship shall be of the best of their respective kinds and shall be to the approval of the Engineer. Should any material/ equipment which are in the judgment of the Engineer unsound, or of inferior quality or in any way unsuited for the works in which it is proposed for use, such materials/ equipment shall not be used upon the works and shall forthwith be removed from the site and replaced with proper quality items to the approval of the Engineer, all at the expense of the contractor. All equipment delivered to the site for purposes of carrying out the contract works shall not be removed from site without prior approval of the Engineer or until all the works are certified complete.

### 2. TESTING AND COMMISSIONING

The project constructed shall be fully tested to the Engineers satisfaction. The contractor shall run the system while training the farmer groups Committee period of 4 days on the routine maintenance of the infrastructure constructed. The training shall entail the routine maintenance practices.

### 3. GENERAL CIVIL ENGINEERING WORKS

#### 3.1 Conditions of site

Before carrying out any works on the site, the site shall be inspected by the contractor in conjunctions with the Engineer to establish the general condition, which shall be agreed and recorded in writing and if possible by mean of photography.

### **3.2 Drawings**

The drawings shall comprise of the drawings in the bid documents issued to the contractor in A3 or A4 sizes and any modification of the drawings approved in writing by the Engineer .

### **3.3 Setting out**

Before commencement of any works, the contractor shall in the presence of the Engineer set out the works, with the alignment as shown in the drawings. The works shall commence following the Engineers approval.

### **3.4 Excavation of foundation**

The contractor shall give sufficient notice to the Engineer to enable him/her to examine the foundations well in advance of concrete being placed for the inspection approval of the formation.

A bottom layer of not less than 75mm thickness shall be left undisturbed and subsequently taken out by hand. Excavations for foundations shall be to such a depth shown on the drawing or as the Engineer might direct.

### **3.5 Concrete**

All reinforced concrete will be class 20, the mix ratio to be used is 1:2:4 (cement, sand, aggregate) except where mix designs are carried out or as specified in the drawings. The mix proportions with water shall be selected to ensure that the workability of the fresh concrete is suitable for the conditions of handling and placing, having regard to the structural element being constructed and the environment to which it will be subjected.

#### **3.6.1 Inspection of reinforcement and formwork.**

No concreting shall commence until the reinforcement and formwork have been inspected and approved by the engineer. Reinforcement in walls and columns shall be inspected and approved before being enclosed in the formwork.

#### **3.6.2 Aggregate Size**

Coarse aggregates maximum size to be used is 20mm graded, for all reinforced concrete slabs less than 400mm thick. The sand used should be of good quality (angular, clean and free from silt).

Coarse aggregates maximum size to be used is 40mm graded, for all reinforced concrete slabs greater than 400mm thick.

#### **3.6.3 Production and placing**

Aggregate and cement shall be proportioned by volume batching with allowance being given for volume bulking. The aggregates and cement shall be thoroughly mixed in a clean mechanical mixer before water is added to suit the design.

Concrete shall be placed within 90minutes of mixing (adding water), in layers not exceeding 400mm deep in such a manner as to avoid segregation. Each layer shall be compacted by means of approved vibrators to form a dense material free from honey combing and other blemishes. The vibration shall be done and stopped when A thin film of mortar begins to appear on the surface. Before placing the concrete, areas intended to receive the concrete shall be properly cleaned.

Concrete mixing by hand and compaction by hand may be used only with prior approval of the Engineer.

#### **3.6.4 Formwork**

All formwork shall be sufficiently tight, with plugging to prevent loss of grout during vibrations of the concrete. Faces of the formwork shall be clean, free from projections, imperfections or defects to

provide the desired surface finish. The formwork shall be treated with approved mould oil before positioning.

Where timber is used for formwork, it shall be properly cured, free from warp, straight clean and free from and free from loose knots. Formworks, which as a result of prolonged use or general deterioration does not, in the opinion of the Engineer conform the particular requirements set out, shall not be used.

### **3.6.5 Curing**

All concrete must be well cured to prevent loss of moisture and against harmful effects of weather like rain. The curing period should be not less than 14 days or as directed by the Engineer .

## **Building works and sundries**

### **3.7.1 Cement Mortar**

Cement mortar for rendering, tiling and screeding shall consist of ordinary cement and approved natural sand mixed by hand or mechanical mixer in proportions by volume of one part of cement to four parts of sand(1:4) unless otherwise specified or shown on drawings. For the canal basement/chamber internal plaster shall be of mix 1:2.5, made waterproof by use of approved additive.

The Cement and sand shall first be mixed dry until the cement colour cannot be distinguished from the sand in any part before the wetting. The water content shall be just sufficient to ensure a dense mortar of stiff consistency and adequate workability or permit troweling or floating into place. The workability for cement mortar for rendering may be improved by adding an approved plasticizer in the proportions recommended by the supplier of the plasticizer.

The mortar prepared shall be used as rapidly as possible. Stiffened mortar shall not be used under any circumstances

### **3.7.4 Plastering**

Plaster shall be done using mortar specified in section 3.7.1 above. The plaster shall be applied in three coats as follows;

Coat 1 (coarse) minimum 5mm thick, 1:5 cement sand mortar. Prepare and apply 5mm thick plastering to the sides of the canal walls with mortar mix ratio of 1:5

## **4 Metal**

Non galvanized metal work shall be rubbed and cleaned with wire brush and primed with red oxide of the best quality, followed by a coat of oil paint used for metal works and two coats of medium oil paint.

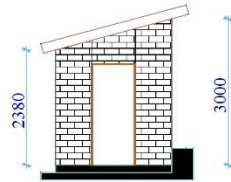


**TECHNICAL DESIGN**  
FENCE FOR THE SOLAR PANELS

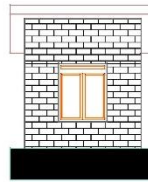




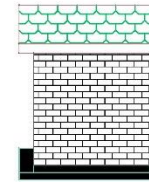
**TECHNICAL DESIGN**  
**WATER KIOSK**



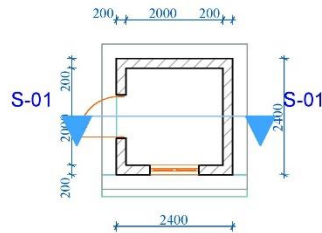
**ENTRANCE ELEVATION.**



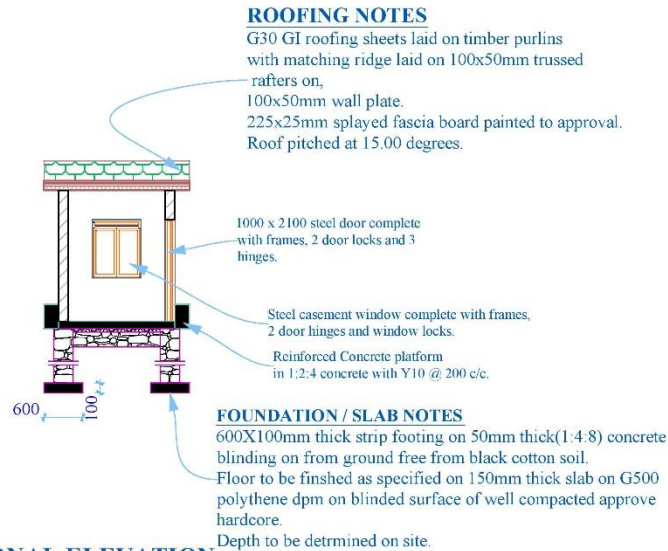
**SERVING ELEVATION.**



**REAR ELEVATION.**

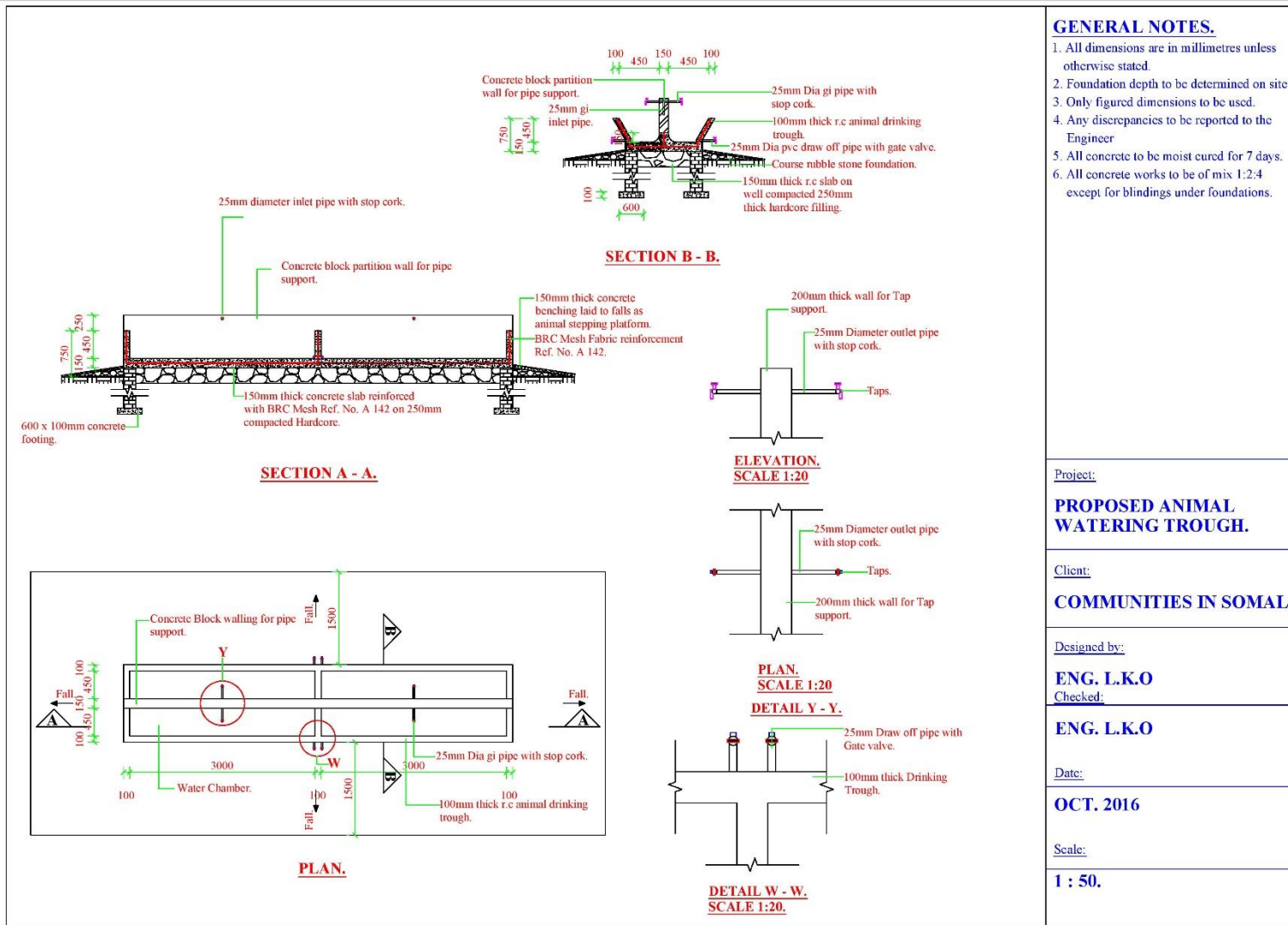


**FLOOR PLAN.**



**SECTIONAL ELEVATION**  
**S01 - S01. SCALE 1:100**

**TECHNICAL DESIGN**  
**ANIMAL TROUGH**



- GENERAL NOTES.**
1. All dimensions are in millimetres unless otherwise stated.
  2. Foundation depth to be determined on site
  3. Only figured dimensions to be used.
  4. Any discrepancies to be reported to the Engineer
  5. All concrete to be moist cured for 7 days.
  6. All concrete works to be of mix 1:2:4 except for blindings under foundations.

Project:  
**PROPOSED ANIMAL WATERING TROUGH.**

Client:  
**COMMUNITIES IN SOMALI**

Designed by:  
**ENG. L.K.O**  
Checked:

**ENG. L.K.O**

Date:  
**OCT. 2016**

Scale:  
**1 : 50.**