# Malteser International Europe · 51103 Cologne · Germany

Malteser International

Wau Office, Hai Daraja,

Block 21, Plot No. 183,

Wau, Western Bahr El Ghazal

South Sudan

 **8 April 2020**

**Request for Quotations**

**RFQ/WAU/2019/0824**

Motorization of existing borehole in Loyola Secondary School, a partner of Malteser International (MI) in Wau Intervention area under BMZ project JUB\_1323.

1. Annex 1: Specification of Bidding
2. Annex 2: Bill of Quantity

We look forward to receiving your tenders by or before the submission deadline on **15 April 2020 at or before 4:00pm** via E-mail to: **mb.procurement-wau@malteser-international.org**.

Sincerely Yours,

|  |  |  |
| --- | --- | --- |
|  |   | Nermin SilajdzicCountry Logistics and Security Coordinator Plot No. 445, Block 3, Kololo - US Embassy Road.Central Equitorial State, Juba, South SudanM: +211 (0) 911 746 963 · M: +211 (0) 924 767 949nermin.silajdzic@malteser-international.org · Skype: nsilajdzic[www.malteser-international.org](http://www.malteser-international.org/)Malteser International Europe/Malteser Hilfsdienst e. V., County Court Cologne, VR 4726Executive Board: Karl Prinz zu Löwenstein, Dr. Elmar Pankau,Douglas Graf Saurma-Jeltsch, Verena Hölken |
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# A. SPECIFICATION OF THE TENDERS

Related to our **RFQ/WAU/2019/0824** MI herewith calls for motorization of existing borehole in Loyola Secondary School, a partner of Malteser International (MI) in Wau intervention area under BMZ project JUB\_1323.

**Solarization in Loyola secondary school**

**A-1) Motorization of existing borehole (including solar pump, hose/ pipe, coverage of borehole)**

* Motorization of hand pump at Loyola Secondary school with the following specification:
	+ Depth of the borehole: 38m
	+ Static water level: 16m
	+ Dynamic water level: 27m
	+ Sustainable yield: 4.5 m3/h
* Installation of submersible solar pump e.g. SQ Flex 2.5-2 from Grundfos. Specifications of the pump need to be included in the bid
* Compatible controller e.g. CU200 from Grundfos and Level switch in the tank to regulate pumping
* Connection of hose/ pipe
* Cover the borehole in a theft proof manner so that the pipes and pump cannot be removed easily but allows access for maintenance

**A-2) Setting up superstructure with solar panels and tanks according to the attached design and specifications**

* Two interconnected tanks of 5’000 L on a superstructure with the solar panels tilted towards South on top
* The solar panels with a total power of 1 kW need to be installed in a theft proof manner without shading the panels. Please specify the type of solar panels and their connections in the bid.
* 2 tanks with a total volume of 10,000 L
	+ Preferably metallic (please specify material in your bid)
	+ Connection of the 2 tanks at the bottom of the tanks including a valve so that the tanks can be maintained separately
	+ Each tank to have a tap at the bottom of the tank for easy cleaning (see design)
	+ Overflow outlet has to be installed
	+ A level switch connected to the controller of the pump is to be placed in one of the tanks
* Handrail around the platform of the tank
* Ladder to reach the platform

**A-3) Underground water pipes between pump and tank and from the tank to the distribution points (diameter of pipes max. 1.25 inch, depth 0.5m)**

The pipes need to be tested in presence of MI before covering them. It is important to know that there are a few underground installations already which are marked on the property.

* Specifications for the connection from the Pump to the tank:
	+ Non return valve as first fitting followed by a discharge valve for sampling
	+ Underground (at least 50cm)
	+ HDPE or uPVC material
	+ One valve before the tank so that maintenance of the pipe is possible without emptying the tanks
* Tank to consumption points (garden, greenhouse, kitchen, …)
	+ At least 50 cm under surface
	+ HDPE or uPVC material
	+ Diameter 1 ¼ inch from tank to nursery and 1 inch (resp. 25mm) from nursery to garden and from tank to kitchen and the classrooms
	+ Valves need to be placed before each junction and just after the tank so that maintenance work can be done in each part without emptying the whole network
	+ A valve box needs to be installed at the bottom of the superstructure where water branches of to 3 different directions (kitchen, classroom, agricultural use)

**A-4) Construction of 5 water points**

* Greenhouse (2 taps): T with one pipe going into the greenhouse with one tap inside the green house on ground level, one tap outside with casted tap stand (80cm high, 15 by 15cm) for preparation work and hand washing. Drainage into soak pit (1mx 1m x 1m)
* Nursery (2 taps): casted tap stands with one tap on each side (80cm high, 15 by 15cm), one tap to connect a hose for watering of the seedlings and one for hand washing, drainage into soak pit (1mx 1m x 1m)
* Gardens (4 taps): one tap for the irrigation of each garden (i.e. 2 in total) at ground level and tapstand with 2 taps outside for preparation work and handwashing like the one at the nursery (80cm high, 15 by 15 cm, one tap on each side), drainage into the gardens
* Kitchen (3 taps): 2 taps to wash utensils at a height of 1.2m above a sink (around 1m high) and one for filling of big pots etc. at around 80cm, the dirty water needs to be captured and channelled to a grease trap and soak pit (1mx 1m x 1m)
* In front of class rooms (6 taps): design according to the already existing water point, drainage to the trees and bushes around it

**A-5) Electrical connections including controller and level switch in the tank**

* All electrical connections i.e. PV panel – controller, pump – controller, level switch – controller
* Grounding and surge protection of electrical components



# Description of the organization and its activities

Malteser International is a worldwide humanitarian relief service of the Sovereign Order of Malta and legally a division of Malteser Hilfsdienst e. V. based in Cologne, Germany. Malteser International is a charitable organization recognize as a relief organization according to the Geneva Convention. In South Sudan, Malteser International is running basic health care programs, a sleeping sickness control program and supporting people affected by leprosy. The activities implemented in Wau are focusing on food security, livelihood, and WASH.

**Objective of the Request for Quotation:** In accordance with the overall targets of the above-mentioned operations, MI plans to motorize of existing borehole in Loyola Secondary School, a partner of Malteser International (MI) in Wau intervention area under BMZ project JUB\_1323.

Competent and qualified companies are therefore invited to present tenders complying with the requirements specified.

# Tender Presentation

The tender shall be sent via E-mail to: **mb.procurement-wau@malteser-international.org**

**The deadline for the delivery of the tenders** **is 15 April 2020 by 4:00 PM**

* The tender shall be written in English
* The tender should be valid for **60 days after the deadline**
* The formatted BOQ can be used or a clear separate one depending on supplier’s choice.

# General conditions

* The tender shall be typed or written and signed on each page by the legal representative of the supplier,
* The winning company might be requested to provide catalogues, pictures, technical descriptions and/or samples of items at the order stage when required,
* The prices of the tender will be expressed in United States Dollars. The prices must be on unit price basis only.
* The prices will be considered fixed whereas MI will not process Tax exemption. No additional change of whatsoever nature and type will be accepted by MI,
* MI reserves the right to accept or reject all tenders depending on prevailing condition at the time

# Timetable

|  |  |  |
| --- | --- | --- |
| **Activities** | **Date** | **Time\*** |
| Deadline for submission of tenders | 15 April 2020 | 4:00 p.m. |
| Opening of submitted tenders | 16 April 2020 |  |
| Notification of award to the successful contractor | 20 April 2020 |  |
| Signing of contract agreement  | 21 April 2020 |  |

\* All times are local time in Wau, South Sudan

# Validity of tenders

Each company is bound to the tender submitted for a period of 60 days from the deadline for submission of tenders.

# Language of tenders

All tenders, official correspondence between companies and MI, as well as all documents associated with the tender request will be in English.

# Submission of tenders

All tenders must conform to the following conditions:

Each tender must be sent to **mb.procurement-wau@malteser-international.org** within the deadline on **15 April 2020 by 4:00 p.m.** (local time).

# Content of tender

All submitted tenders must conform to the requirements mentioned in the request for bid. Furthermore, they must include the following documents:

**Part 1 - Tender:** A tender for motorization of existing borehole in Loyola Secondary School, a partner of MI in Wau intervention area under BMZ project JUB\_1323. The formatted BOQ can be used or a separate one depending on supplier’s choice. Additional sheets may be attached for further details.

**Part 2 - Legal documents**

* Copy of the company’s certificate of incorporation,
* Copy of Chamber of Commerce registration,
* Copy Tax Identification Certificate,
* Copy of Certificate of Operation,
* Company’s Financial Statement of last three months,
* Company’s official address,
* Bank account details (where money would be paid)

# Ownership of tenders

MI reserves/funds ownership of all tenders received. Consequently, bidders will not be able to stipulate requirements that their tenders are to be returned.

1. **Opening of submitted tenders**

The Evaluation Committee will open the bids on 16 April 2020 in MI Office in Wau, South Sudan. The Evaluation Committee will record the selection process in writing.

# Tender evaluation

The criteria applied for the evaluation will be the legal conformity, the price, the technical experiences, the compliance with technical specifications and quality standards, and the capacity to deliver, delivery time and meet timeframes as specified. The supply will be awarded to the winning bidder according to the timetable mentioned above.

1. **Specific Technical and Financial Evaluation Criteria to standards:**
* Comparative Bid Analysis and justification basing on responsiveness of the selected supplier by evaluation committee.
* Contract will directly be issued to the selected supplier upon approval.
1. **Terms of payment**

The payment for the goods/services supplied will be in United States Dollar by bank transfer or cheque as specified below:

* Payment will be done after 15 working days upon delivery of the specified supply and supporting invoices from the Supplier to MI Office.

**Annex 2: Bill of Quantity**

The quantities stated against each item of the Bill of Quantities (BOQ) are the estimated quantities and are therefore provisional e.g. pipe lengths. The contractor shall be paid for actual quantities used.

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|  | **Solarization of Borehole in Loyola SS** |  |
| **S/n** | **Description**  | **Unit** | **Quantity**  | **Unit rate (USD)** | **Amount (USD)** |
| **1.00** | **Contractors general obligation** |   |   |   |   |
| 1.01 | Pre- construction, survey, mobilization and setting out  | Lump sum | 1 |   |  |
|   | **Sub-Total 1** |   |   |   |  |
| **2.00** | **Site Clearing, Excavation and preparation of Foundations** |   |   |   |  |
| 2.10 | Clear of site and removal of the top soil at an average depth of 20 cm for all the operational area | Sq. m | 50 |   |  |
| 2.02 | Excavate in ordinary soil for foundation, pipe lines and footings | Cu-m | 17.72 |   |  |
| 2.03 | Backfill with marrum around all foundation and footings well ram in layers every 20 cm interval | Cu-m | 14 |   |  |
|  | **Sub-Total 2** |  |  |  |  |
| **3.00** | **Installation, Construction and Casting of Foundation**  |   |   |   |  |
| 3.01 | Caste on 142 BRC mesh plain concrete at the mix ratio of 1:2:4 footings, and platform @100 mm thickness  | Cu-m | 8.2 |   |  |
| 3.02 | Reinforced concrete for footing, short column, beam and platform of the water in a mix ratio 1:1.5: 3 filled in the form works and vibrated around rod reinforcement including all the formwork | Cu-m | 3.367 |   |  |
| 3.03 | High tensile steel bars (12mm and 8mm) including cutting bending tying, hooking and fixing. 16 No.Y12 @15cm c'c for basement and column 8 No Y12 @13cm c'c per column and beam 8NoY12@13C'C | Kg | 317.526 |   |  |
| 3.04 | Install a set of dia. 20mm anchor bolts (4pcs) and a metal plate (35x35cm & 10 mm thick) accurately in position for the steel tower columns complete with all its necessary accessories  | Set | 6 |   |  |
| 3.05 | Using cement mortar screed the plate in to metallic cement  | Sq. m | 40 |   |  |
|   | **Sub- Total 3** |   |   |   |  |
| **4.00** | **Installation of the Steel Structures and the Tank Segments** |   |   |   |  |
| 4.01 | Mounting, fabrication and Painting of Metal members for Water Tower. Refer and follow Technical Specification, Scope of work and approved work Drawings | Lump sum | 1 |   |  |
| 4.02 | Supply and place two interconnected water storage tanks of a total of 10,000 litres on the metallic Tower with inter- valve between the two tank, inlet at the first, outlet at the second tank washout for both and overflow ST access in the tank will be designed in supervision of the site engineer | Lump sum | 1 |   |  |
| 4.03 | Fabricate and Install a metal ladder and handrail to reach the platform as specs | Lump sum | 1 |   |  |
|   | **Sub- Total 4** |   |   |   |  |
| **5.00** | **Piping works** |   |   |   |  |
| 5.01 | Supply and installation of HDPE pipe OD40PN10 wall thickness 5.8mm( 1.1^4) as a riser from the pump to surface including all necessary fittings with consideration of turbidity is less than 5  | M | 37.5 |   |  |
| 5.02 | Supply and installation of UPVC pipe (1.0) as a riser(column)from the ground surface to elevated water Storage Tank including all necessary fittings for inlet, overflow | M | 12 |   |  |
| 5.03 | Supply and installation of PE 100 pipe OD40 PN10 wall thick 3mm (1.0) as main distribution line for both Hand washing facility, kitchen, agricultural use, classroom including concrete thrust block and other necessary requirements at an average depth of 50cm | M | 400 |   |  |
| 5.04 | Greenhouse (2 taps): Tap with one pipe going into the greenhouse with one tap inside the green house on ground level, one tap outside with casted tap stand (80cm high, 15 by 15cm) for preparation work and hand washing. Drainage into soak pit (1mx 1m x 1m) | tap stand | 01 |  |  |
| 5.05 | Nursery (2 taps): casted tap stands with one tap on each side (80cm high, 15 by 15cm), one tap to connect a hose for watering of the seedlings and one for hand washing, drainage into soak pit (1mx 1m x 1m) | tap stand | 01 |  |  |
| 5.06 | Gardens (4 taps): one tap for the irrigation of each garden (i.e. 2 in total) at ground level and tap stand with 2 taps outside for preparation work and handwashing like the one at the nursery (80cm high, 15 by 15 cm, one tap on each side), drainage into the gardens | tap stand | 01 |  |  |
| 5.07 | Kitchen (3 taps): 2 taps to wash utensils at a height of 1.2m above a sink (around 1m high) and one for filling of big pots etc. at around 80cm, the dirty water needs to be captured and channelled to a grease trap and soak pit (1mx 1m x 1m) | tap stand | 01 |  |  |
| 5.08 | In front of classrooms (6 taps): design according to the already existing water point, drainage to the trees and bushes around it. | tap stands | 01 |  |  |
| 5.09 | Installation of gate valve at the joint to water tapes, Washout and Non return control  | Pcs | 5 |   |  |
|  | **Sub -Total 5** |  |  |  |  |
| **6.00** | **Solar and water pump installation** |   |   |   |  |
| 6.01 | Dismantle the existing hand pump and install solar grundfos submersible pump SQ 2.5- 2 capacity well head protection (Surge protection) with water level(sense connected to tank 2 from the controller), and compatible pump controller cu- 200 and Level switch in the tank to regulate pumping including all necessary requirements.  | Lump sum | 1 |   |  |
| 6.02 | Supply and install PV solar panel of 335 watts welded on (30x30x4mm)angle bar on the top of the water tank and one independent security solar light 35 watts  | pcs | 4 |   |  |
| 6.03 | Use electrical flat cable 4mm With Lightening arrester from the solar panels to the water pump with all necessary requirements | M | 37.5 |   |  |
|  | **Sub-Total 6** |  |  |  |  |
| **7.00** | **Fencing of the water Tower and levelling surface** |   |   |   |  |
| 7.01 | Fabricate and plot in concrete an angle bar of (40x40x4mm) at the height of 2.5m@2c'c and sheltered with chain link wire and an entry gate of 1.3 sing shutter using Hollow section metal of 9No.40x40x4mm including all necessary requirements | M | 26 |   |  |
| 7.02 | Supply and levelling of coarse aggregate inside the fence at the thickness of 10cm | Cu-m | 4.5 |   |  |
|  | **Sub-Total 7** |  |  |  |  |
|  | **Sub Total 10** |  |  |  |  |
|   | **Grand Total** |   |   |   |  |

On behalf of Malteser International Date: 8 April 2020

Yours faithfully,



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