

Date: 27 February 2023

Specification of Bidding (SOB)

SOB_YEI_2023_0041

For rehabilitation of twelve block of latrines in eight primary schools in Juba County

Section I

Rehabilitation of twelve block of latrines in eight primary schools in Juba County.

This is the SOB for the above mentioned rehabilitation. Please find enclosed the following documents, which constitute the tender dossier:

Section I	SOB
Section II	Instructions to Bidders
Section III	Appendix to Tender.
Section IV	Particular conditions
Section V	Scope of Works
Section VI	Bills of Quantities
Section VII	Technical Specifications
Section VIII	Drawings attached

We look forward to receiving your tenders on **6 March 2023 at or before 12pm** via E-mail to:
mb.procurement-juba@malteser-international.org

Please write in the Subject line of your email with tender: **“ITT_JUB_2023_0041 for rehabilitation of 12 blocks of latrines”**.

Thank you for your cooperation.

Sincerely,



Nermin Silajdzic

Country Logistics and Security Coordinator

Plot No. 246 Block 3k South 2nd Class, Behind Indian Embassy, Tong Ping
Central Equitorial State, Juba, South Sudan

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nermin.silajdzic@malteser-international.org · Skype: nsilajdzic

www.malteser-international.org

Malteser International Europe/Malteser Hilfsdienst e. V., County Court Cologne, VR 4726

Executive Board: Karl Prinz zu Löwenstein, Dr. Elmar Pankau,

Douglas Graf Saurma-Jeltsch, Verena Hölken

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SECTION II

Instructions to Bidders

Introduction

Malteser International (MI) is preparing to commence rehabilitation of twelve block of latrines in eight primary schools in Juba County

MI is herein seeking qualified construction companies to undertake the Contract Agreement for rehabilitation of twelve block of latrines in eight primary schools in Juba County.

This document provides the instructions to bidders and forms part the Tender documents for rehabilitation of twelve block of latrines in eight primary schools in Juba County.

<i>The COB identification reference is</i> COB_JUB_2023_0041	The works include: For rehabilitation of twelve block of latrines in eight primary schools in Juba County
<i>Contact for correspondence, notifications and requests for clarifications</i>	All correspondence, notifications and requests for clarification in relation to this SOB shall be sent to: nermin.silajdzic@malteser-international.org
<i>Bidder Eligibility</i>	MI will only contract a single legal entity.
<i>Clarifications</i>	Requests for clarification from bidders will not be accepted any later than 5 days before the Deadline for Submission of Tenders.
<i>Site Inspection</i>	Before submitting the Tender, the Bidders are invited to complete a visit to the project sites to familiarize itself with the condition of the site. Interested construction companies for visiting the project sites are invited to MI Country Coordination Office in Tongping behind Indian Embassy at 9am on Wednesday on 1 March 2023 with their own transportation means. Malteser International sign board is on the right side of office compound. Contact person is Samuel Okenyi with his phone number: 0922 221 361 or 0925 879 792. Failure to visit the site shall be deemed a Bidder's risk and shall not be accepted by MI, at any time, as a reason for failure to meet the requirements of the Contract Agreement. In submitting a tender, it is assumed that the Bidder has visited the site.
<i>Tender validity period</i>	Tenders shall remain valid for acceptance by the employer for two months, from the deadline for submission of tenders.
<i>Tender Currency</i>	Prices shall be quoted in United States Dollars (USD).
<i>Duties and Taxes</i>	The Bidder shall price his tender including all duties, taxes, levies and other charges in force in the South Sudan.
<i>Language of tenders</i>	All tenders, information, documents and correspondence exchanged between MI and the bidders in relation to this tender shall be in English

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<i>Tender Submissions</i>	We look forward to receiving your tenders on <u>2 March 2023 at or before 12pm</u> via E-mail to: <u>mb.procurement-juba@malteser-international.org</u>
<i>Deadline for Submission of</i>	All Tender must be submitted by <u>6 March 2023 at or before: 12pm</u>
<i>Tender Opening</i>	Tenders will be opened by MI Evaluation Committee.

SOB Documents

The SOB documents consist of:

Section I	RFQ
Section II	Instructions to Bidders
Section III	Appendix to Tender.
Section IV	Particular conditions
Section V	Scope of Works
Section VI	Bills of Quantities
Section VII	Technical Specifications
Section VIII	Drawings attached

Manner of Submission

Technical Proposal

Technical information should be prepared in the following manner:

- a. The Bidder shall prepare a method statement inclusive of a preliminary program as part of their tender. It shall be utilised to assess the Bidders understanding of the project and logical progression of works to facilitate phased renovation in an effective, efficient and safe manner. The method statement shall at a minimum:
 - i. Work schedule indicating measurable duration,
 - ii. proposed staff details and CVs of Construction manager and Site Engineer,
 - iii. projected build-up of labor on site both local and foreign for each phase,
 - iv. projected build-up of machinery on site for each phase,
 - v. demonstrate where materials shall be sourced and where materials shall be disposed of,
 - vi. demonstrate how the works will be progressed in a safe manner.

The preliminary works schedule shall be as detailed as possible. It shall show the level of detail appropriate to each stage of the Works and all activities each of which shall be given a short title.

In his preliminary programme of works, the Contractor shall identify all the constraints he envisages to the timely mobilisation.
- b. All supporting documentation required by this RFQ including but not limited to:
 - i. Signed Client references from previous projects,
- c. Any other documents as required by this RFQ or the Employer and this shall include:
 - ✓ **Legal Status of the Company and Information required includes:** Principal Place of Business & Addresses (Location, Office Telephone, and Email); Full Details of Company Representative (Name, Title, Telephone & E-mail); Copy of Relevant Certificates (Renewed Registration Certificate, Copy of Valid Trading License - FY

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2017/2018, Copy of Income Tax Clearance Certificate-FY 2018 and VAT Registration Certificate.

- ✓ **Financial Situation of the Company and Information required includes:** Adequacy of Working Capital for Works USD and Average turnover for the past **2 years** in USD (construction only)
- ✓ **Experiences and Works References and information required includes:** Provide for project name, value, brief description of scope of works and location of any 2 recent similar projects completed; Provide completion certificate of Works as proof of evidence and provide Referees for recently completed projects mentioned above (Name of contact person, Title and contact details– Telephone & Email)
- ✓ **Manpower Requirement:** Provide proposed Project Manager and Site Foreman assigned for the engagement (Names, Qualifications, CVs and Years of Relevant Experience) and provide Details of relevant project staff deployed for the engagement (Categories/ Roles and number of staff),
- ✓ **Plant and Equipment:** Provide lists of relevant plants and equipment owned or leased to be used for the Works. Provided list of key equipment,
- ✓ **Questionnaire for tender**

Financial Proposal:

Financial Proposal should consist of a completed BOQ (including Summary Sheet). Please note that all sums given in tenders must be in the currency as stated in the Contract.

- a) Letter of tender containing the Bidder's lump sum financial proposal,
- b) The Bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items, for which no rate or price is entered by the Bidder, will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities,
- c) The Bill of Quantity received with this document shall not be modified,
- d) Where the Bidder observes errors or omissions in the quantities and/or prices stated, these shall be brought to the attention of the Contracting Party not later than three days before the deadline.

The original and all copies of the tender shall be typed or written in indelible ink and shall be signed by a person or persons duly authorised to sign on behalf of the Bidder. All pages of the tender shall be initialled by the person or persons signing the tender.

Tender Opening and Evaluation

The Evaluation Committee will open the tenders. MI will record the tender opening strictly in accordance with MI procedure.

The Bidders will not be invited to the tender opening.

Non-Compliant Tenders

The MI's decision on whether a tender is compliant or not will be final.

Evaluation and Award

Evaluation Method

Tenders shall be evaluated according to the following procedure:

Firstly, tenders shall be evaluated for technical compliance based on:

- Technical expertise and implementation methodology,

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- Previous experience in similar project and
- Resources and key personnel.

Secondly, tenders that are found to be technically compliant shall be evaluated based on price and value for money, analysing all relevant costs, risks and benefits of each tender throughout the whole life cycle of the works and in the context of the project as a whole. The set criteria shall be used to determine the most economically advantageous tender for contract award:

- a. The Bidder's initial proposal should contain the tender's best terms from a cost or price and technical standpoint,
- b. If tenders are determined to be equivalent based on the technical criteria, price will then become the deciding criterion for award,
- c. Bidders are forewarned that an acceptable proposal with the lowest price may not be selected if award to a higher-priced proposal affords MI a greater overall benefit,
- d. The MI will favourably evaluate a schedule, which shows earlier completion than the MI's required time frame. The Bidder's innovative approaches to accomplish early completion are encouraged.

Exclusion criteria

The following are exclusion criteria:

- 1. Not submitted the following company registration documents in South Sudan:**
 - 1.1.1. Copy of the company's certificate of incorporation,**
 - 1.1.2. Copy of Chamber of Commerce registration,**
 - 1.1.3. Copy Tax Identification Certificate,**
 - 1.1.4. Copy of Certificate of Operation,**
- 2. Not bided according to the specification,**
- 3. Not provided questionnaire for tender,**
- 4. Mathematical error of total bided price $\geq \pm 2\%$ and**
- 5. Not having its own warehouse with construction materials and tools in stock. Partnership agreements of bidders are not accepted by the Malteser International.**

Clarification of Tenders

The MI may request clarification or further information in writing from the Bidders at any time during the tender process. The Bidders' responses shall not contain any changes regarding the substance or price of the tender.

Award of Contract Agreement

Notification of award and signing of Agreement

- a. The notification of award will be informed to the successful Bidders,
- b. The Contract Agreement will comprise the entire agreements between the MI and the successful Bidder. It will be signed by the MI and sent to the successful Bidder. Within 2 days of receipt, the successful Bidder will sign the Contract Agreement and deliver it to the MI.

Checklists of Documents be returned

The following checklists are included to help remind the Bidders that the tenders submission shall include the following documents for the tenders. Documents shall be complied in the order specified below:



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Technical Proposal Check List		
Contractor Name:		
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No.	List of documents to be submitted	Mark X if attached
1	A completed copy of this Checklist	
2	Sign/initial every page of SOB (all sections) and return	
3	Sign/initial every Clarification/ Addendum/Tender Bulletin if issued	
5	Technical Proposal Including:	
	a) Legal status information of the company : <i>Principal Place of Business & Addresses, Full Details of Company Representative, and Copy of Relevant Certificates</i>	
	b) Organogram of project team	
	c) Detailed CVs of Key team members (Project Manager and Site Engineer/Foreman)	
	d) Details of relevant project staff to be deployed for the engagement (<i>Categories/Roles and number of staff</i>)	
	e) Financial Situation of the Company: <i>Adequacy of Working Capital for Works with submitted USD bank statement for three months and Average turnover for the past 2 years (construction only)</i>	
	f) Plant and equipment to be deployed for the engagement	
	g) Experiences and Works References: Provide project name, value, brief description of scope of works and location of any 4 recent similar projects completed and completion certificate of Works as proof of evidence; provide Referees for recently completed projects mentioned above	
	h) Method statement	
	i) Works Schedule	
	j) Quality Control Plan	
	k) Preliminary Health and Safety Plan	
	l) Questionnaire for Tender	

Name: _____

Signature: _____

Financial Proposal Checklist		
Contractor Name:		
SOB_JUB_2023_0041		
	List of documents to be submitted	Mark X if attached

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1	A completed copy of this Checklist	
2	Letter of Tender	
3	Completed Bill of Quantities (With every page initialed)	

Name: _____

Signature: _____

**SECTION III
APPENDIX TO TENDER**

Item	Data
Documents forming the Contract Agreement listed in the order of priority	a) The Contract Agreement, b) Particular Conditions, c) General conditions, d) Scope of Works, e) Bill of Quantities f) Drawings g) Letter of Tender and the RFQ
Contracting Party	MI
Governing Law	Law of the Country – Republic of South Sudan
Language	English
Provision of Site	On the Commencement Date
Name and Address of MI's Representative	To be notified in writing by the Authorised Person
Contractor's Representative	To be notified in writing by the Contractor
Time for Completion	For rehabilitation of twelve block of latrines in eight primary schools in Juba County will be completed by 1 June 2023
Delay Damages	0.10% of Contract Price per day up to a maximum of 10%
Defects liability period	Six months calculated from the date stated in the notice under Sub-Clause 6.5
Percentage of retention	10% of the payment for six months
Currency	US Dollars

**SECTION IV
PARTICULAR CONDITION**

Particular conditions

1. General Provisions

1.1 Definitions

- 1.1.1 "Variation" means a change to the Specifications and/or Drawings (if any), which is instructed by the Malteser International,
- 1.1.2 "Date of Substantial Completion" means the date when the Works have reached substantial Completion as stated in the Taking-Over Certificate,
- 1.1.3 The "Defects Notification Period" means the period for notifying defects in the Works,

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- 1.1.4 The "Final Completion Certificate" means the certificate issued under Sub-Clause 9.4,
- 1.1.5 "Taking-Over Certificate" means a certificate issued under Clause 6.5 certifying that the Works have reached Substantial Completion and stating the date of Substantial Completion,
- 1.1.6 'Contract' means the Agreement and other documents listed in the Appendix,
- 1.1.7 'day' means calendar day
- 1.1.8 'Force Majeure' means an exceptional event or circumstance which is beyond a Part's control; which such party could not have provided against before entering into contract; which, having arisen such Party could not reasonably have avoided or overcome and which is not substantially attributable to other party.
- 1.2 Communication
 - 1.2.1 The Contractor shall neither seek nor accept instructions from any authority external to the Malteser International in connection with the performance of its obligations under the Contract.
- 1.3 Assignment
 - 1.3.1 The Contractor shall not assign, transfer, pledge or make other disposition of this Contract or any part thereof, or any of the Contractor's rights, claims or obligations under this Contract except with the prior written consent of the Malteser International,
- 1.4 Malteser International's Use of Contractor's Documents,
 - 1.4.1 As between the Parties, the Contractor shall retain the copyright and other intellectual property rights in the Contractor's Documents and other design documents made by (or on behalf of) the Contractor. The Contractor gives and shall be deemed (by signing the Contract) to give to the Malteser International a perpetual, non-terminable, transferable non-exclusive, royalty-free, worldwide license to copy, use and communicate the Contractor's Documents, including making and using modifications of them,
- 1.5 Confidential nature of Documents and Information
 - 1.5.1 The Contractor shall treat the details of the contract as private and confidential, except to the extent necessary to carry out obligations under it or to comply with applicable Laws.
 - 1.5.2 All information provided to either party by either party shall be held in confidence by all Parties,
- 1.6 Law
 - 1.6.1 The law of the contract is stated in the Appendix,

2. The Malteser International

- 2.1 Provision of Site,
 - 2.1.1 The Malteser International shall provide the site,
- 2.2 Malteser International instructions,
 - 2.2.1 The contractor shall comply with all instructions given by the Malteser International in respect of the Works including the suspension of all or part of Works,
- 2.3 Approvals
 - 2.3.1 No approval or consent or absence of comment by the Malteser International or the Malteser International's representative shall affect the Contractors obligation.

3. Engineer / Malteser International's Representative

- 3.1 The Malteser International may appoint an Individual to carry out certain duties.

4. The Contractor

- 4.1 General obligation
 - 4.1.1 The Contractor shall carry out Works Properly and in accordance with the contract. The Contractor shall provide all the supervision, labor, Materials, Plant and Contractor's equipment which may be required.

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4.2 Contractors representative

4.2.1 Contractor shall submit to the Malteser International the name and particulars of the person authorized to receive instructions on behalf of the Contractor,

4.3 Subcontracting

4.3.1 The Contractor shall not subcontract the whole of the works. The contractor shall not subcontract any part of the Works without consent of the Malteser International,

4.4 Performance Security

4.4.1 Contractor shall deliver to the Malteser International within 14 days of commencement date a performance security in a form and from third party approved by the employer,

4.5 Safety Procedures

4.5.1 The Contractor shall comply with the requirements of the specification and all applicable local and national laws governing the health and safety requirements for the protection of employees and any others entering the Site,

4.6 Site Data

4.6.1 The Contractor shall be deemed to have obtained all necessary information as to risks, contingencies and other circumstances which may influence or affect the Tender or Works. To the same extent, the Contractor shall be deemed to have inspected and examined the Site, its surroundings, the above data and other available information, and to have been satisfied before submitting the tender,

4.7 Sufficiency of the Contract Amount

4.7.1 The Contractor shall be deemed to:

- a) have satisfied himself as to the correctness and sufficiency of the Contract Price, and
- b) have based the Contract Price on the data, interpretations, necessary information, inspections, examinations and satisfaction as to all relevant matters referred to in Sub-Clause 4.6.,

4.7.2 Unless otherwise stated in the Contract, the Contract Price covers all the Contractor's obligations under the Contract and all things necessary for the proper execution and completion of the Work and the remedying of any defects,

4.8 Contractor's Equipment

4.8.1 The Contractor shall be responsible for all Contractor's Equipment. When brought on to the Site, Contractor's Equipment shall be deemed to be exclusively intended for the execution of the Works. The Contractor shall not remove from the Site any major items of Contractor's Equipment without the written consent of the Malteser International. Consent shall not be required for vehicles transporting Goods or Contractor's Personnel

4.9 Supply of Electricity and Water

4.9.1 The Contractor must provide on the Site, for the duration of the Works, an adequate supply of drinking and other water for the use of its staff and labor. The Contractor shall also provide power and other services required for him to undertake the Works.

4.10 Progress Reports

4.10.1 Progress reports shall be prepared by the Contractor and submitted to the Malteser International's Representative containing the project progress information required by the Contract. The Contractor shall issue the report in the number of copies and at the intervals stated in the Scope of Works.

4.11 Contractor's Personnel

4.11.1 The Contractor's Key Personnel are named in the Tender. The Contractor must not replace the Key Personnel without prior written consent of the Malteser International and must submit to the Malteser International for approval the names and particulars of the persons the Contractor proposes to replace.



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- 4.11.2 The Contractor's Personnel must be appropriately qualified, skilled and experienced in their respective trades or occupations. The Malteser International may require the Contractor to remove (or cause to be removed) any person employed on the Site or in the execution of the Works, including the Contractor's Representative who in the opinion of the Malteser International,
- a) persists in any misconduct or lack of care,
 - b) carries out duties incompetently or negligently,
 - c) fails to conform with any provisions of the Contract or
 - d) persists in any conduct which is prejudicial to safety, health, or protection of the environment.
- 4.11.3 Where this Sub-Clause 4.11.2 applies, the Contractor must then appoint a suitable replacement person for each person so removed.
- 4.11.4 The Malteser International will not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any of the Contractor's Personnel, unless resulting from any act or Default of the Malteser International.

5. Malteser International Liability

- 5.1 In this Contract, Malteser International's Liabilities mean:
- a) Force Majeure,
 - b) a suspension under Sub-Clause 2.2 unless it is attributed to the Contractor's failure, act, omission or breach.

6. Time for completion and Take over

6.1 Execution of the Works

- 6.1.1 The contractor shall commence the works on the commencement date and shall proceed expeditiously and without delay and shall complete the works within the Time for Completion.

6.2 Extension of time

- 6.2.1 Subject to clause 8.3 the contractor shall be entitled to an extension of Time for completion if he is or will be delayed by employers Liabilities. On receipt of the application, the Malteser International shall consider all the supporting details provided by the contractor and shall extend the time for completion as appropriate.

6.3 Late Completion

- 6.3.1 If the Contractor fails to complete the Works within the Time for completion, the contractor's liability to the Malteser International for such failure shall be to pay amount sated in the Appendix for each day for which he fails to complete the works.

6.4 Take-Over

- 6.4.1 The contractor may notify the employer when he considers that works are complete

6.5 Take-Over Notice

- 6.5.1 The Malteser International shall notify the contractor when he considers that the contractor has completed the works stating the date accordingly. The Malteser International shall take over the works upon the issue of this notice. The contractor shall promptly complete all the outstanding works and subject to clause 7 clear the site.

7. Remedying Defects

- 7.1 The Malteser International may at any time prior to the expiry of the period stated in the appendix, notify the contractor of any defects or outstanding work. The contractor shall

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remedy at no cost to the employer any defects due to the contractors design, materials, plant or workmanship not being in accordance with the contract.

8. Variations and Claims

8.1 Right to Vary

8.1.1 The Malteser International may instruct Variations.

8.2 Valuation of Variations

8.2.1 Variations shall be valued as follows

- a) At lump sum price agreed between the Parties,
- b) Where appropriate at rates in the contract or
- c) In the absence of rates the rates in the Contract shall be used as the basis for valuation or failing which,
- d) At appropriate new rates, as may be agreed or which the employer considers appropriate.

8.3 Early Warning

8.3.1 A Party shall notify the other as soon as he is aware of any circumstance which may delay or disrupt Works, or which may give rise to a claim for additional payment. The contractor shall take all reasonable steps to minimize these effects. The contractor's entitlement to extension of time for completion or additional payment shall be limited to the time and payment which would have been due if he had given prompt notice and had taken all reasonable steps.

8.4 Variation and Claim Procedure.

8.4.1 The contractor shall submit to the Malteser International an itemized makeup of the value of the variations and claims within 28 days of the Instruction or of the event giving rise to the claim. The Malteser International shall check and if appropriate agree the value. In absence of agreement, the Malteser International shall determine the value.

8.5 Adjustment for Changes in Cost

8.5.1 Unless otherwise expressly stated, the Contract Price, and the rates and prices inserted in the Bill of Quantities, will not be adjusted for rises or falls in the cost of labour, goods and other inputs to the Works and the Contract Price and the rates and prices inserted in the Bill of Quantities, will be deemed to include amounts to cover contingency of rises and falls in the cost of labor, goods and other inputs to the Works.

9. Contract Price and Payment

9.1 Valuation of Works

9.1.1 The Malteser International shall pay the Contract Price in accordance with this Clause 9 and the Scope of Works annexed to the Contract. The Contractor is deemed to have satisfied itself as to the correctness and sufficiency of the Contract Price and all fixed unit rates and prices in the Contract.

9.2 Interim Payment

9.2.1 Within 28 days of delivery of each statement submitted, the Malteser International will pay to the Contractor the amount shown in the Contractor's statement less retention at the rate specified in the Appendix to Tender and less any amount to be deducted for Advance Payment (if any) and repayments (if any), and less any other amount for which the employer has specified its reasons for disagreement or that has become due under the Contract. The Malteser International is not bound by any sum considered to be due by the Contractor.

9.2.2 The Malteser International may withhold interim payments until it receives the performance guarantee under Sub-Clause 4.4 (if any).

9.3 Payment of Retention

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9.3.1 The retention will be paid by the Malteser International to the Contractor within 14 days after six month of completion of the work.

9.5 Payment

9.5.1 Within 14 days after receiving the Final Completion Certificate, the Contractor must submit a final account to the Malteser International together with any documentation reasonably required to enable the Malteser International to ascertain the final contract value.

9.6 Delayed Payment

9.5.1 The Contractor is not entitled to any interest in respect of any amount in any statement submitted to the Malteser International which remains due and unpaid.

10. Default and termination

10.1 Default by the Contractor

10.1.1 If the Contractor abandons the Works, refuses or fails to comply with a valid instruction of the Malteser International or fails to proceed expeditiously and without delay, or is in breach of the Contract, the Malteser International may give notice referring to this Sub-Clause and stating the default.

10.1.2 If the Contractor has not taken all practicable steps to remedy the defaults with 14 days after the Contractor's receipt of the Malteser International's notice, the Malteser International may by a second notice of 14 days, terminate the Contract.

10.1.3 The Malteser International reserves the right to terminate the Contract immediately without written notice if the Contractor is declared insolvent or is in breach of the contract

10.1.4 If the Malteser International serves a termination notice under this Sub-Clause 10.1, the Contractor must stop work and demobilize (except to the extent specified in the notice from the Malteser International).

10.2 Payment upon Termination

10.2.1 After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

- a) any sums to which the Contractor is entitled.
- b) any sums to which the Malteser International is entitled,
- c) if the Malteser International has terminated under Sub-Clause 10.1, the Malteser International shall be entitled to a sum equivalent to 10% of the value of those parts of the Works not executed at the date of the termination,

10.3 Malteser International's Entitlement to Terminate for Convenience

10.3.1 The Malteser International may in its absolute discretion terminate the Contract, at any time for the Malteser International's convenience, by giving notice of such termination to the Contractor. The termination will take effect 28 days after the later of the dates on which the Contractor receives this notice, or the Malteser International returns the Bank Guarantee for performance.

11. Risks and Responsibility

11.1 Contractor's Care of the Works

11.1.1 The contractor shall take full responsibility for the care of the works from the commencement date until the employer takes over the completed works.

11.2 Force Major

11.2.1 If a party is or will be prevented from performing any of its obligations by force Majeure, the party affected shall notify the other party immediately. If necessary, the contractor shall suspend the execution of works and to the extend agreed with the employer demobilize the contractor's equipment

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If the event continues for period of 84 days either party may give notice of termination which shall take effect 28 days after giving the notice.

12. Insurance

12.1 The contractor shall, prior to commencing the works effect and thereafter maintain insurances for the Works, Materials, Plants and contractor's equipment and Manpower including third parties.

13. Resolution of Disputes

13.1 Resolutions of Disputes

13.1.1 Disputes shall be settled amicably

SECTION V SCOPE OF WORKS

The scope of the Works under this SOB consists of but not limited to following activates

The works

- For rehabilitation of twelve block of latrines in eight primary schools in Juba County
- Making provisions for disable as indicated in the drawings and as shall be instructed.
- Cleaning and tiding up of the site after completion of the works
- Ensuring all the sample of materials needed for the rehabilitation works are approved by MI site Engineer and the approval sample always been kept at the site.

Reporting and documentation.

- Preparations and maintenance of daily photographic record of activities, issues of interest and progress
- Supply and maintenance of site diary throughout the duration of the project
- Bi-weekly, monthly and ad hoc reports as may be instructed by the employer.
- Ensuring site meeting minutes' is documented and kept at the site
- Ensuring materials and visitors check list always available at the site

SECTION VI

BOQs

For rehabilitation of twelve block of latrines in eight primary schools in Juba County

Bill Of Quantities

1_Rehabilitation of Gudele West Primary School Girls and Boys 2 Block Latrine of 22 stance in- Juba - Central Equatoria

No.	Item	Unit	Quantity	Unit rate (USD)	Amount (USD)
1.01	Preconstruction works, mobilization and demolization and clearing arising from the site	L-s	1		



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1.02	Disluge all the waste in the pit of the latrine (The pit is more 50% not full)	L-S	1		
Sub-total 1					
2	Sub-structure				
2.01	Excavation soak way(dia 2.0 and depth 1.2) and for the handwashing facility	M ³	4		
2.02	DOTT for Urinal	M ³	1.6		
2.03	Concrete (1:2:4) @100mm thick splash apron, Handwashing facility	M ³	2.7		
2.04	200mm walling for the excavated and plinth walls in well burnt bricks bedded and jointed 1:4 cement sand mortar for the , Handwashing facility	M ²	3		
2.05	13mm thick cement sand (1:4) plastering to apron and Hand washing facility wall rendered in cement	M ²	10.7		
Sub-total 2					
3	Super-structure				
3.01	Prepare the roof sheet and re paint using oil paint	M ²	38		
3.02	Replace the facial boards 9"X1" smoothly sharp including painting in weather guard	M	18.2		
Sub-total 3					
4	Finishes				
4.02	Steel cement rendering Re-designing foot resting and drop hole per standard and rendering smooth cement on the concrete floor (Smoothing), Handwashing facility, and all surrounding of the apron.	M ²	31		
4.03	Re- Painting Prepare surface, apply primer coats and three coats of plastic emulsion paint to exterior and interior rendered with oil paints.	M ²	70		
4.04	Tiling Provide Tiling for hand washing facilities	M ²	6		
Sub-total 5					
5	Supplies and Fittings				
	Door and windows (use lead lined metal as frames)				
5.01	supply and install a metal doors including fabrication and painting; louvers for ventilation 0.3 on the shutter and in proper in and out locking system and a medium size padlocks for	No	4		
5.02	Repair broken doors and windows	No	18		
5.03	Rpair the chain link fence at the 2 blocks of vip latrines for boys and girls including the 2 gate	M/L	70		



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5.04	Provide, fabricate and install A 500 liters' plastic water storage with a metallic stand from square hollow section metal fabricated together with a metallic stair case (40x 40x3mm) hollow section, the storage is connected by rain water 4" gutter and a pipe of 3" PVC in to the tank. The water in the tank is connect to the hand washing facility using 3/4 PVC pipe and 2 taps and 1 control valve inside the latrine whereas the waste water with 3" connected to the soak pit including all necessary requirements	L-S	1		
5.05	Fabricate the hollow section 1x1 mm at the top of curtains wall and at the curtains door above 1.2meter	L-S	1		
Sub-total 5					
Grand Total					

Bill Of Quantities

2_Rehabilitation of Gumbo Basic Primary School Girls and Boys 1 Block Latrine of 2 stance in Central Equatoria

County:

Juba County

No.	Item	Unit	Quantity	Unit rate (USD)	Amount (USD)
1.01	Preconstruction works, mobilization and demolization and clearing arising from the site	L-s	1		
1.02	Disluge all the waste in the pit of the latrine (The pit is more 50% not full)	L-S	1		
Sub-total 1					
2	Sub-structure				
2.01		M ³	4		
2.02	DOTT for Urinal	M ³	1.6		
2.03	Concrete (1:2:4) @100mm thick splash apron, Handwashing facility	M ³	2.7		
2.04	200mm walling for the excavated and plinth walls in well burnt bricks bedded and jointed 1:4 cement sand mortar for the , Handwashing facility	M ²	3		
2.05	13mm thick cement sand (1:4) plastering to apron and Hand washing facility wall rendered in cement	M ²	10.7		
Sub-total 2					
3	Super-structure				
3.01	Prepare the roof sheet and re paint using oil paint	M ²	21		
3.02	Replace the facial boards 9"X1" smoothly sharp including painting in weather guard	M	18.2		
Sub-total 3					



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4	Finishes				
4.02	Steel cement rendering Re-designing foot resting and drop hole per standard and rendering smooth cement on the concrete floor (Smoothing), Handwashing facility, and all surrounding of the apron.	M ²	31.1		
4.03	Re- Painting Prepare surface, apply primer coats and three coats of plastic emulsion paint to exterior and interior rendered with oil paints.	M ²	155		
4.04	Tiling Provide Tiling for hand washing facilities	M ²	2		
Sub-total 5					
5	Supplies and Fittings				
	Door and windows (use lead lined metal as frames)				
5.02	supply and install a metal doors including fabrication and painting; louvers for ventilation 0.3 on the shutter and in proper in and out locking system and a medium size padlocks for	No	4		
5.03	Replace the existing broken vent pipe in toilet rooms with all its necessary required items including painting	M/L	15		
5.05	Provide, fabricate and install A 500 liters' plastic water storage with a metallic stand from square hollow section metal fabricated together with a metallic stair case (40x 40x3mm) hollow section, the storage is connected by rain water 4" gutter and a pipe of 3" PVC in to the tank. The water in the tank is connect to the hand washing facility using 3/4 PVC pipe and 2 taps and 1 control valve inside the latrine whereas the waste water with 3" connected to the soak pit including all necessary requirements	L-S	1		
Sub-total 5					
Grand Total					

Bill Of Quantities

3 Rehabilitation of Atlabara Primary School Girls and Boys (2 BKS) Block Latrine of 2 stance in Central Equatoria

County:

Juba County

No.	Item	Unit	Quantity	Unit rate	Amount (USD)
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				(USD)	
1.01	Preconstruction works, mobilization and demolition and clearing arising from the site	L-s	1		
1.02	Disluge all the waste in the pit of the latrine (The pit is more 50% not full)	L-S	1		
	Sub-total 1				
2	Sub-structure				
2.01	Excavation soak way (dia 2.0 and depth 1.2) and for the handwashing facility	M ³	4		
2.02	DOTT for Urinal	M ³	1.6		
2.03	Concrete (1:2:4) @100mm thick splash apron, Handwashing facility	M ³	2.7		
2.04	200mm walling for the excavated and plinth walls in well burnt bricks bedded and jointed 1:4 cement sand mortar for the, Handwashing facility	M ²	3		
2.05	13mm thick cement sand (1:4) plastering to apron and Hand washing facility wall rendered in cement	M ²	10.7		
	Sub-total 2				
3	Super-structure				
3.01	Prepare the roof sheet and re paint using oil paint	M ²	21		
3.02	Replace the facial boards 9"X1" smoothly sharp including painting in weather guard	M	18.2		
	Sub-total 3				
4	Finishes				
4.02	Steel cement rendering Re-designing foot resting and drop hole per standard and rendering smooth cement on the concrete floor (Smoothing), Handwashing facility, and all surrounding of the apron.	M ²	31.1		
4.03	Re- Painting Prepare surface, apply primer coats and three coats of plastic emulsion paint to exterior and interior rendered with oil paints.	M ²	155		
4.04	Tiling Provide Tiling for hand washing facilities	M ²	2		

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	Sub-total 4				
5	Supplies and Fittings				
	Door and windows (use lead lined metal as frames)				
5.02	supply and install a metal doors including fabrication and painting; louvers for ventilation 0.3 on the shutter and in proper in and out locking system and a medium size padlocks for	No	4		
5.03	Replace the existing broken vent pipe in toilet rooms with all its necessary required items including painting	M/L	15		
5.05	Provide, fabricate and install A 500 liters' plastic water storage with a metallic stand from square hollow section metal fabricated together with a metallic stair case (40x 40x3mm) hollow section, the storage is connect by rain water 4" gutter and a pipe of 3" PVC in to the tank. The water in the tank is connect to the hand washing facility using 3/4 PVC pipe and 2 taps and 1 control valve inside the latrine whereas the waste water with 3" connected to the soak pit including all necessary requirements .NB. fabricate support across the plastic tanks to avoid removal from gangs/Nickgas.	No	2		
	Sub-total 5				
6.01	Allow cost for visibilities to all the Malteser International facilities new rehabilitation. Contact WASH Technician for the LOGGO and the writing.	No	1		
	Sub-total 6				
	Grand Total				

Bill Of Quantities

4 Rehabilitation of Kapuri Primary School Girls and Boys 1 Block Latrine of 2 stance in Central Equatoria

County:

Juba County

No.	Item	Unit	Quantity	Unit rate (USD)	Amount (USD)
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Malteser Hilfsdienst e. V., Malteser International, Erna-Scheffler-Str. 2, 51103 Cologne, Germany

1.01	Preconstruction works, mobilization and demolization and clearing arising from the site	L-s	1		-
1.02	Disluge all the waste in the pit of the latrine (The pit is more 50% not full)	L-S	1		-
Sub-total 1					-
2	Sub-structure				
2.01	Excavation soak way(dia 2.0 and depth 1.2) and for the handwashing facility	M ³	4		-
2.02	DOTT for Urinal	M ³	1.6		-
2.03	Concrete (1:2:4) @100mm thick splash apron, Handwashing facility	M ³	2.7		-
2.04	200mm walling for the excavated and plinth walls in well burnt bricks bedded and jointed 1:4 cement sand mortar for the , Handwashing facility	M ²	3		-
2.05	13mm thick cement sand (1:4) plastering to apron and Hand washing facility wall rendered in cement	M ²	10.7		-
Sub-total 2					-
3	Super-structure				
3.01	Prepare the roof sheet and re paint using oil paint	M ²	21		-
3.02	Replace the facial boards 9"X1" smoothly sharp including painting in weather guard	M	18.2		-
Sub-total 3					-
4	Finishes				
4.02	Steel cement rendering Re-designing foot resting and drop hole per standard and rendering smooth cement on the concrete floor (Smoothing), Handwashing facility, and all surrounding of the apron.	M ²	31.1		-
4.03	Re- Painting Prepare surface, apply primer coats and three coats of plastic emulsion paint to exterior and interior rendered with oil paints.	M ²	155		-
4.04	Tiling Provide Tiling for hand washing facilities	M ²	2		-
Sub-total 5					-
5	Supplies and Fittings				
	Door and windows (use lead lined metal as frames)				

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5.02	supply and install a metal doors including fabrication and painting; louvers for ventilation 0.3 on the shutter and in proper in and out locking system and a medium size padlocks for	No	4		-
5.03	Replace the existing broken vent pipe in toilet rooms with all its necessary required items including painting	M/L	15		-
5.05	Provide, fabricate and install A 500 liters' plastic water storage with a metallic stand from square hollow section metal fabricated together with a metallic stair case (40x 40x3mm) hollow section, the storage is connect by rain water 4" gutter and a pipe of 3" PVC in to the tank. The water in the tank is connect to the hand washing facility using 3/4 PVC pipe and 2 taps and 1 control valve inside the latrine whereas the waste water with 3" connected to the soak pit including all necessary requirements	L-S	1		-
Sub-total 5					-
Grand Total					-

Bill Of Quantities

5_Rehabilitation of 2 blocks of latrines in Gudele 1 & 2 Primary School Girls and Boys 1 Block Latrine of 3 stance and 1 block of 6 stance in Central Equatoria

County:

Juba County

No.	Item	Unit	Quantity	Unit rate (USD)	Amount (USD)
1.01	Preconstruction works, mobilization and demolization and clearing arising from the site and	L-s	1		
1.02	Disluge all the waste in the pit of the latrine (The pit is more 50% not full)	L-S	1		
1.03	back filled completely with marram 4cum .	CUM	4		
Sub-total 1					
2	Sub-structure				
2.01	Excavation soak way (dia 2.0 and depth 1.2) and for the handwashing facility	M ³	4		
2.02	DOTT for Urinal	M ³	1.6		
2.03	Concrete (1:2:4) @100mm thick splash apron, Handwashing facility	M ³	2.7		



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2.04	200mm walling for the excavated and plinth walls in well burnt bricks bedded and jointed 1:4 cement sand mortar for the , Handwashing facility	M ²	3		
2.05	13mm thick cement sand (1:4) plastering to apron and Hand washing facility wall rendered in cement	M ²	10.7		
Sub-total 2					
3	Super-structure				
3.01	Prepare the roof sheet and re paint using oil paint	M ²	21		
3.02	Replace the facial boards 9"X1" smoothly sharp including painting in weather guard	M	18.2		
Sub-total 3					
4	Finishes				
4.02	Steel cement rendering Re-designing foot resting and drop hole per standard and rendering smooth cement on the concrete floor (Smoothing), Handwashing facility, and all surrounding of the apron.	M ²	31.1		
4.03	Re- Painting Prepare surface, apply primer coats and three coats of plastic emulsion paint to exterior and interior rendered with oil paints.	M ²	70		
4.04	Tiling Provide Tiling for hand washing facilities	M ²	2		
Sub-total 5					
5	Supplies and Fittings				
	Door and windows (use lead lined metal as frames)				
5.02	supply and install a metal doors including fabrication and painting; louvers for ventilation 0.3 on the shutter and in proper in and out locking system and a medium size padlocks for	No	5		
5.03	Replace the existing broken vent pipe in toilet rooms with all its necessary required items including painting	M/L	15		
5.05	Provide, fabricate and install A 500 liters' plastic water storage with a metallic stand from square hollow section metal fabricated together with a metallic stair case (40x 40x3mm) hollow section, the storage is connect by rain water 4" gutter and a pipe of 3" PVC in to the tank. The water in the tank is connect to the hand washing facility using 3/4 PVC pipe and 2 taps and 1 control valve inside the latrine whereas the waste water with 3" connected to the soak pit including all necessary requirements	L-S	1		



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	Sub-total 5				
	Grand Total				

Bill of Quantities

6 Rehabilitation of El-salaam Primary School Girls and Boys 2 Block Latrine of 4 stance in Central Equatoria

County:

Juba County

No.	Item	Unit	Quantity	Unit rate (USD)	Amount (USD)
1.01	Preconstruction works, mobilization and demolization and clearing arising from the site	L-s	1		
1.02	Disluge all the waste in the pit of the latrine (The pit is more 50% not full)	L-S	1		
	Sub-total 1				
2	Sub-structure				
2.01	Excavation soak way(dia 2.0 and depth 1.2) and for the handwashing facility	M ³	4		
2.02	DOTT for Urinal	M ³	1.6		
2.03	Concrete (1:2:4) @100mm thick splash apron, Handwashing facility	M ³	2.7		
2.04	200mm walling for the excavated and plinth walls in well burnt bricks bedded and jointed 1:4 cement sand mortar for the , Handwashing facility	M ²	3		
2.05	13mm thick cement sand (1:4) plastering to apron and Hand washing facility wall rendered in cement	M ²	10.7		
	Sub-total 2				
3	Super-structure				
3.01	Prepare the roof sheet and re paint using oil paint	M ²	21		
3.02	Replace the facial boards 9"X1" smoothly sharp including painting in weather guard	M	18.2		
	Sub-total 3				
4	Finishes				
4.02	Steel cement rendering Re-designing foot resting and drop hole per standard and rendering smooth cement on the concrete floor (Smoothing), Handwashing facility, and all surrounding of the apron.	M ²	31.1		

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4.03	Re- Painting Prepare surface, apply primer coats and three coats of plastic emulsion paint to exterior and interior rendered with oil paints.	M ²	70		
4.04	Tiling Provide Tiling for hand washing facilities	M ²	2		
Sub-total 5					
5	Supplies and Fittings				
	Door and windows (use lead lined metal as frames)				
5.02	supply and install a metal doors including fabrication and painting; louvers for ventilation 0.3 on the shutter and in proper in and out locking system and a medium size padlocks for	No	4		
5.03	Replace the existing broken vent pipe in toilet rooms with all its necessary required items including painting	M/L	15		
5.05	Provide, fabricate and install A 500 liters' plastic water storage with a metallic stand from square hollow section metal fabricated together with a metallic stair case (40x 40x3mm) hollow section, the storage is connected by rain water 4" gutter and a pipe of 3" PVC in to the tank. The water in the tank is connect to the hand washing facility using 3/4 PVC pipe and 2 taps and 1 control valve inside the latrine whereas the waste water with 3" connected to the soak pit including all necessary requirements	L-S	2		
Sub-total 5					-
Grand Total					-

NB: Rehabilitation of rain water harvest system

Bill Of Quantities

7_Rehabilitation of LIBYA 1 & 2 Primary School Girls and Boys 1 Block Latrine of 2 stance in Central Equatoria

County:

Juba County

No.	Item	Unit	Quantity	Unit rate (USD)	Amount (USD)
1.01	Preconstruction works, mobilization and demolization and clearing arising from the site	L-s	1		



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1.02	Disluge all the waste in the pit of the latrine (The pit is more 50% not full)	L-S	1		
Sub-total 1					
2	Sub-structure				
2.01	Excavation soak way(dia 2.0 and depth 1.2) and for the handwashing facility	M ³	4		
2.02	DOTT for Urinal	M ³	1.6		
2.03	Concrete (1:2:4) @100mm thick splash apron, Handwashing facility	M ³	2.7		
2.04	200mm walling for the excavated and plinth walls in well burnt bricks bedded and jointed 1:4 cement sand mortar for the , Handwashing facility	M ²	3		
2.05	13mm thick cement sand (1:4) plastering to apron and Hand washing facility wall rendered in cement	M ²	10.7		
Sub-total 2					
3	Super-structure				
3.01	Prepare the roof sheet and re paint using oil paint	M ²	21		
3.02	Replace the facial boards 9"X1" smoothly sharp including painting in weather guard	M	18.2		
Sub-total 3					
4	Finishes				
4.02	Steel cement rendering Re-designing foot resting and drop hole per standard and rendering smooth cement on the concrete floor (Smoothing), Handwashing facility, and all surrounding of the apron.	M ²	31.1		
4.03	Re- Painting Prepare surface, apply primer coats and three coats of plastic emulsion paint to exterior and interior rendered with oil paints.	M ²	155		
4.04	Tiling Provide Tiling for hand washing facilities	M ²	2		
Sub-total 5					
5	Supplies and Fittings				
	Door and windows (use lead lined metal as frames)				
5.02	supply and install a metal doors including fabrication and painting; louvers for ventilation 0.3 on the shutter and in proper in and out locking system and a medium size padlocks for	No	4		
5.03	Replace the existing broken vent pipe in toilet rooms with all its necessary required items including painting	M/L	15		



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5.05	Provide, fabricate and install A 500 liters' plastic water storage with a metallic stand from square hollow section metal fabricated together with a metallic stair case (40x 40x3mm) hollow section, the storage is connected by rain water 4" gutter and a pipe of 3" PVC in to the tank. The water in the tank is connect to the hand washing facility using 3/4 PVC pipe and 2 taps and 1 control valve inside the latrine whereas the waste water with 3" connected to the soak pit including all necessary requirements	L-S	1		
Sub-total 5					
Grand Total					

NB: Rehabilitation of rain water harvest system

Bill Of Quantities

8 Rehabilitation of DMI Primary School Girls and Boys 1 Block Latrine of 2 stance in Central Equatoria

County:

Juba County

No.	Item	Unit	Quantity	Unit rate (USD)	Amount (USD)
1.01	Preconstruction works, mobilization and demolization and clearing arising from the site	L-s	1		
1.02	Disluge all the waste in the pit of the latrine (The pit is more 50% not full)	L-S	1		
Sub-total 1					
2	Sub-structure				
2.01	Excavation soak way(dia 2.0 and depth 1.2) and for the handwashing facility	M ³	4		
2.02	DOTT for Urinal	M ³	1.6		
2.03	Concrete (1:2:4) @100mm thick splash apron, Handwashing facility	M ³	2.7		
2.04	200mm walling for the excavated and plinth walls in well burnt bricks bedded and jointed 1:4 cement sand mortar for the , Handwashing facility	M ²	3		
2.05	13mm thick cement sand (1:4) plastering to apron and Hand washing facility wall rendered in cement	M ²	10.7		
Sub-total 2					
3	Super-structure				
3.01	Prepare the roof sheet and re paint using oil paint	M ²	21		



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3.02	Replace the facial boards 9"X1" smoothly sharp including painting in weather guard	M	18.2		
Sub-total 3					
4	Finishes				
4.02	Steel cement rendering Re-designing foot resting and drop hole per standard and rendering smooth cement on the concrete floor (Smoothing), Handwashing facility, and all surrounding of the apron.	M ²	31.1		
4.03	Re- Painting Prepare surface, apply primer coats and three coats of plastic emulsion paint to exterior and interior rendered with oil paints.	M ²	70		
4.04	Tiling Provide Tiling for hand washing facilities	M ²	2		
Sub-total 5					
5	Supplies and Fittings				
	Door and windows (use lead lined metal as frames)				
5.02	supply and install a metal doors including fabrication and painting; louvers for ventilation 0.3 on the shutter and in proper in and out locking system and a medium size padlocks for	No	2		
5.03	Replace the existing broken vent pipe in toilet rooms with all its necessary required items including painting	M/L	15		
5.05	Provide, fabricate and install A 500 liters' plastic water storage with a metallic stand from square hollow section metal fabricated together with a metallic stair case (40x 40x3mm) hollow section, the storage is connect by rain water 4" gutter and a pipe of 3" PVC in to the tank. The water in the tank is connect to the hand washing facility using 3/4 PVC pipe and 2 taps and 1 control valve inside the latrine whereas the waste water with 3" connected to the soak pit including all necessary requirements	L-S	1		
Sub-total 5					
6.00	Supplies and Fixtures				
6.01	Supply and install a Vertical Plastic water tank of 5000 liters 5cm concrete basement connected with overflow, washout and outlet accesses	No	1.00		
6.02	Supply and install gutters 6 inches with clips at a span of 75 cm connecting to the water storage	M	20.00		



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6.03	Supply and install a PVC pipe of 3inches connected as inlet to the storage tank while considering first flash out sytem and connect for waste water through a metallic floor trap to the grease trap and soakaway	M	10.00		
6.04	Supply and install in the platform four push cock water taps of 3/4 connect to the water storage tank using (HDPE flexible) PE 100 pipe OD63 PN10 wall thicks 3mm (1.0) as well considering overflow and washout access with control valve and replace the tap of the existing facilities	L-S	1.00		
Sub-total 3					
Grand Total					

Summary page for 12 Blocks

S/n	Description	Amount (USD)
1	Gudele West Primary School	
2	Gumbo Basic Primary School	
3	Atlabara West Primary School	
4	Kapuri Primary School	
5	Gudele 1 & 2 Primary School	
6	Elsalaam Primary School	
7	Libya 1 & 2 Primary School	
8	Dmi Primary School	
Grant total		

SECTION VII

TECHNICAL SPECEIFICATIONS

1.1 MATERIALS GENERALLY

All materials used on the works shall be new and of the qualities and kinds specified herein and equal to the approved samples. Materials and methodology for the execution of the works shall be submitted to for to the Employers Representative for relevant approval, before commencement of the works. Non approved material incorporated in the works, will make the executed works null and void to all fields and shall be removed and replaced with the approved ones at the contractor's expense and care, in this case the contractor will not be eligible for extension of time.

1.1.1 Samples

The Contractor shall furnish for approval with reasonable promptness all samples of materials and workmanship required by the employer. The employer shall check and approve such samples for



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conformance with the design concept of the works and for compliance with the information given in
the Contractor Documents.

1.2 EXCAVATIONS AND EARTHWORK

1.2.1 Inspection of site

The Contractor is deemed to have visited the site and to have ascertained the nature of the soil and sub-soils to be excavated. No claim will be allowed on account of these being of a different nature from that for which he has allowed in his prices.

1.2.2 Existing trees and shrubs

No shrubs trees plants shall be removed except as directed by the employer's representative. Contractor shall be held responsible for any damage caused by the building operations to those shrubs trees etc. not so directed to be removed.

1.2.3 Site Clearance

All vegetation matter must be removed or burned on site at the commencement of the contract over areas as directed by the employer's representative.

1.2.4 Excavation

If the Contractor excavates to any widths or depths greater than those shown on the Drawings or as instructed by the employer's representative, the contractor shall at his own expense fill in such widths or depths of excavation beyond that instructed or shown with concrete to the satisfaction of the employer's representative.

1.2.5 Materials found in the excavations

No sand, aggregate or other materials found in the excavations is to be used in the works without the written permission of the employer's representative.

1.2.6 Rates for Excavations

The rates for excavation including excavation in hard ground, must include for trimming, levelling, preparing bottoms and all faces to receive concrete, any extra excavation required for planking and strutting and disposal of excavated material.
Prices shall include for excavating in any material encountered unless specifically otherwise described.

1.3 CONCRETE WORK

1.3.1 Generally

All workmanship, materials, tests and performance in connection with the reinforced concrete work are to be in conformity with the British Standard Code of Practice (BS 8110; 1985, incorporating the latest amendments thereto), for "the Structural use of Reinforced Concrete in Buildings" and in accordance with local by-laws.

1.3.2 Cement

Cement unless otherwise specified, shall be Portland Cement of a brand approved by the Employers Representative and shall comply with the requirements of BS 12 with the exceptions that it may contain reactive volcanic ash (of not more than 10% of the total weight) and the quantity of insoluble residue permitted in BS 12 may be exceeded.

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1.3.3 Aggregates

Aggregates shall conform to the requirements of BS 582 and the sources and types of all aggregates are to be approved in all respects by the Engineer before work commences.

Coarse aggregate shall be good, hard, clean, and free from dust decomposed stone, clay earthy matter, foreign substances or friable thin elongated or lamed pieces. It shall be graded with the limits of

Aggregate shall be delivered to the site in their prescribed sizes or grading.

1.3.4 Water

The water used for mixing concrete shall be from an approved source, clean, fresh and free from harmful matter, and comply with the requirements of BS 3148.

Concrete Mix proportion and strength.

- Mix ratio for reinforced concrete shall be in the proportion 1:2:4 (cement: sand: aggregate).
- Water – cement ratio for concrete shall be 0.4% to 0.45%.
- Reinforced concrete shall have minimum 28-day strength of 20 N/mm².
- The required slump of the concrete shall be 100mm ±20mm.
- Mix ratio for mass concrete reinforced concrete shall be in the proportion 1:3:6 (cement: sand: aggregate).
- 20mm aggregate to be used for both Mix proportions.

1.3.5 Compaction

At all times during which concrete is being placed the Contractor shall provide adequate trained and experienced labor to ensure that the concrete is compacted in the forms to the satisfaction of the Engineer.

1.3.6 Curing and Protection

Care must be taken that no concrete is allowed to become prematurely dry, and the fresh concrete must be carefully protected within two hours of placing from rain, sun and wind by means of hessian sacking, polythene sheeting, or other approved means. This protective layer and the concrete itself must be kept continuously wet for days after the concrete has been placed.

1.3.7 Faulty Concrete

Any concrete which fails to comply with these Preambles, or which shows signs of setting before it is placed shall be taken out and removed from the site. Where concrete is found to be defective after it has set, the concrete shall be cut out and replaced in accordance with the employer's representative's instructions. On no account shall any faulty honeycombed, or otherwise defective concrete be repaired or patched until the Employer's Representative has made an inspection and issued instructions for the repair. The whole of the cost whatsoever, which may be occasioned by the need to remove faulty concrete shall be borne by the Contractor.

1.3.8 Reinforcement

All reinforcement shall be free from loose mill scale or rust, grease paint or other substances likely to reduce the bond between the steel and concrete.

1.3.9 Fabric Reinforcement

To be electrically cross-welded steel wire mesh reinforcement to BS 4483(1969) and of the size and weight specified.

1.4 MASONRY

1.4.1 Masonry Units

Masonry units shall be as indicated in the drawings and as follow:

- Burnt clay bricks
- Concrete solid blocks

1.4.2 Mortar and Bonding

Bonding mortar of 1:4 (cement: sand) ratio shall be used immediately after mixing, and mixed mortar left for more than one hour shall be rejected. Vertical and horizontal joints shall be filled completely. The spacing between the blocks in the wall is to be 10mm and raked to receive plaster.

1.5 CARPENTRY AND JOINERY

1.5.1 Generally

All woodwork shall be carried out in accordance with the drawings and the principals of first class joinery rehabilitation. Unless specifically stated otherwise sizes shown on drawings are finished sizes and the Contractor must allow for wood faces.

1.5.2 Qualities of Timber

All timber for permanent work in the building shall before use be approved by the employer's representative for quality in accordance with the foregoing specification. Any timber not so approved by the employer's representative shall be removed from the site forthwith.

All timber is to be protected from the weather and stored in such a way as to prevent attack by decay, fungi, termites or other insects.

1.5.3 Defective Work

All work judged to be defective must be removed and replaced as directed by the employer's representative.

1.6 FINISHINGS

1.6.1 Other specifications

All other specifications of this contract where applicable are deemed to apply equally to the finishing's specifications.

1.6.2 Finished thicknesses

The thicknesses of floors shall have a constant structural thickness and have level top surfaces. The finished floor surface will equally have a constant level and any adjustment needed to achieve this effect with the varying floor finish materials is to be made in the screeds beneath the same.

Slabs bearing on the ground may be cast to varying levels, and be of constant thickness with varying formation levels, or have varying thicknesses at the option of the Contractor. This stipulation in no way relieves the Contractor of the requirements of the specification for structural work.

1.6.3 Plaster

Item of Work	Mix
Internal plaster	1 part cement 4 parts sand
External Render	1 part cement

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4 parts sand

Curing of plaster

Each coat of plaster is to be maintained in a moist condition for at least three days after it has developed enough strength not to be damaged by water.

Cement and sand screeds

Screeds shall be mixed and formed as described.

Roofing sheets

Roofing sheets shall be G 28 pre-painted sheets. Color shall be selected by the employer's representative

Vent pipe

The vent pipes shall 100 mm dia pipes of UPVC including the cap.

Cleaning and handing over

The site shall be cleared of any debris arising from the works and disposed of in an area approved by the local authority. All completed structure shall be washed clean before handing over.

Section VIII

Drawings attached

Yours faithfully,



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