

Malteser Hilfsdienst e. V., Malteser International, Erna-Schaeffler-Str. 2, 51103 Cologne, Germany

Instructions to Bidders

Introduction

Construction and installation of Rainwater harvesting systems in two primary Schools (DMI and Gudele East 1&2 Primary School) in Juba County Annex 1: Specification of Bidding

<i>The RFQ identification reference is reposted</i> ITT_JUB_2024_0188	The works include: Construction and installation of Rainwater harvesting systems in two primary Schools (DMI and Gudele East 1&2 Primary School) in Juba County Annex 1: Specification of Bidding
<i>Contact for correspondence, notifications, and requests for clarifications</i>	All correspondence, notifications, and requests for clarification in relation to this reposted RFQ shall be sent to: Emmanuel Mogga via emmanuel.mogga@malteser-international.org
<i>Bidder Eligibility</i>	Malteser International will only contract a single legal entity.
<i>Clarifications</i>	Requests for clarification from bidders will not be accepted any later than 3 days before the deadline for submission of quotations.
<i>Site Inspection</i>	Before submitting the quotation, the Bidder advised to complete a visit to the project sites to familiarize itself with the condition of the site. MI will not provide support for visits to the project sites. 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 quotation, it is assumed that the Bidder has visited the sites.
<i>Quotation validity period</i>	Quotations shall remain valid for acceptance by the employer for two months from the deadline for submission of quotations.
<i>Quotation Currency</i>	Prices shall be quoted in United States Dollars (USD).
<i>Duties and Taxes</i>	The Bidder shall price his quotation including all duties, taxes, levies, and other charges in force in South Sudan.
<i>Language of quotations</i>	All quotations, information, documents, and correspondence exchanged between Malteser International and the bidders in relation to this quotation shall be in English

<i>Quotation Submissions</i>	Quotations shall be submitted via: mb.procurement-Juba@malteser-international.org
<i>Deadline for Submission of Quotations</i>	All quotations must be submitted by 4 October 2024 at or before: 16:00 pm
<i>Quotation Opening</i>	Quotations will be open; by Malteser International Evaluation Committee.

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 quotation. 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. Realistic Work schedule,
 - ii. proposed staff details and CVs of Construction manager and Site Engineer,
 - iii. projected build-up of machinery on site for each phase,

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.

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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 Reposted ITT including but not limited to:
 - i. Signed Client references from previous projects,
- c. Any other documents as required by this Reposted ITT 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 2020/2022, Copy of Income Tax Clearance Certificate-FY 2024 and VAT Registration Certificate.
 - ✓ **Financial Situation of the Company:** Bank statement for the last three months
 - ✓ **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,

Financial Proposal:

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

- a) 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,
- b) The Bill of Quantity received with this document shall not be modified,
- c) 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 quotation 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 quotation shall be initialled by the person or persons signing the quotation.

1.0 Quotation Opening and Evaluation

The Evaluation Committee will open the quotations. MI will record the quotation opening strictly in accordance with MI procedure.

The Bidders will not be invited to the quotation opening.

Non-Compliant Quotations

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

Evaluation and Award

Evaluation Method

Quotations shall be evaluated according to the following procedure:

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

- Technical expertise and implementation methodology,
 - Previous experience in similar project and
 - Resources and key personnel.
- a. The set criteria shall be used to determine the most economically advantageous quotation for contract award,
 - b. The Bidder's initial proposal should contain the quotation's best terms from a cost or price and technical standpoint,
 - c. If quotations are determined to be equivalent based on the technical criteria, price will then become the deciding criterion for award,
 - d. 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,

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- e. 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.

Clarification of Quotations

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

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 quotations submission shall include the following documents for the quotations. Documents shall be complied in the order specified below:

List of documents to be submitted
a) Legal status information of the company: Principal Place of Business & Addresses, Full Details of Company Representative, and Copy of Relevant Certificates
b) Detailed CVs of Key team members (Project Manager and Site Engineer/Foreman)
c) Bank statement for the last three months
d) Plant, tools, and equipment to be deployed for the engagement
e) 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
f) Realistic Works Schedule
g) Company's official address,
h) Bank account details (where money would be paid)

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 and
3. Mathematical error of total bided price $>\pm 2\%$.

Appendix to quotation

Item	Data
Contracting Party	Malteser International
Governing Law	Law of the Country – Republic of South Sudan
Language	English
Provision of Site	On the Commencement Date
Contractor's Representative	To be notified in writing by the Contractor
Time for Completion	2 months
Programme: Time for submission	Within 5 days of Commencement Date
Delay Damages	0.10% of Contract Price per day up to a maximum of 10%
Defects liability period	2 months calculated from the date stated in the notice under Sub-Clause 6.5
Percentage of retention	10% of the payment for Two months
Currency	US Dollars

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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,
- 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 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 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 Malteser International shall provide the site in the presence of the authority.

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 Malteser International or 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, labour, Materials, Plant and Contractor’s equipment which may be required.

4.2 Contractors representative

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- 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 30 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 quotation 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 quotation,
- 4.7 Sufficiency of the Contract Amount
- 4.7.1 The Contractor shall be deemed to:
- have satisfied himself as to the correctness and sufficiency of the Contract Price, and
 - 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 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 labour. 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 quotation. 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.
- 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,
- persists in any misconduct or lack of care,
 - carries out duties incompetently or negligently,
 - fails to conform with any provisions of the Contract or
 - 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 Malteser International.

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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, 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 stated 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 work is complete.

6.5 Take-Over Notice

6.5.1 Malteser International shall notify the contractor when he considers that the contractor has completed the works stating the date accordingly. 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 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 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 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. Malteser International shall check and if appropriate agree the value. In the absence of agreement, 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 labour, goods and other inputs to the Works.

9. Contract Price and Payment

9.1 Valuation of Works

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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 14 days of delivery of completion report 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 quotation 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. Malteser International is not bound by any sum considered to be due by the Contractor.

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

9.3 Payment of Retention

9.3.1 The retention will be paid by Malteser International to the Contractor within 14 days after three months 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 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 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 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 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 extent agreed with the employer demobilize the contractor's equipment.

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If the event continues for a 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.

(Separate attachment)

Annex i

Annex ii

Technical Specifications

1.1 MATERIALS GENERALLY

All materials used in 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 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 made on account of these being of a different nature from that which he has allowed in his prices.

1.2.2 Existing trees and shrubs

No shrubs, trees or plants shall be removed except as directed by the employer's representative. The 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.

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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.

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.

- The mixed 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.
- The mixture 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 adequately trained and experienced labor to ensure that the concrete is compacted in 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 inspected 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.

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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.

1.3.10 Defective Work

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

1.4 METALWORK

1.4.1 Generally

All material shall be the best of their respective kinds free from defects and all work is to be carried out in the most workmanlike manner. The materials in all stages of transportation, handling and stacking shall be kept clean and prevented from injury by breaking, bending or distortion and weather action.

1.5 FINISHINGS

1.5.1 Other specifications

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

1.5.2 Finished thicknesses.

The thickness 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 screens 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.

1.5.3 Plaster

Item of Work	Mix
Internal plaster	1 part cement 3 parts sand
External Render	1 part cement 3 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.

PAINTING

Materials

1.5.4 Manufacturers

Except where stated all materials shall be obtained from an approved manufacturer. The Contractor shall state the name and address of the manufacturer whose materials be proposed to use. Once approval has been given the Contractor shall not obtain materials from other sources without the prior written agreement of the Employer.

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1.5.5 General

Each succeeding coat of priming, undercoating, and finishing (pigment) of clear coating shall be sufficiently different in color as to be readily distinguishable.

All primers and paints in one system upon a particular surface shall be obtained from the same manufacturer.

The mixing of paints etc., of different brands before or during application will not be permitted.

1.5.6 Emulsion paints

Emulsion paints shall be matt or satin finish vinyl emulsion paint.

The first (mist) coat shall be thinned in accordance with the manufacturer's instructions.

1.5.7 Gloss paint

Gloss paint shall be hard gloss finish oil paint.

1.5.8 Primers and undercoats

Unless otherwise specified, primers and undercoats shall be of the type recommended by the manufacturer of the finishing coats specified for a particular surface. Primer for external bare metal work surfaces shall comply with BS 2523.

1.5.9 White spirit

The white shall comply with BS 245

1.5.10 Inspection

No priming coats shall be applied until the surfaces have been inspected and preparatory work has been approved by the employer's representative. No undercoats or finishing coats shall be applied until the previous coat has been similarly inspected and approved.

1.5.11 Paint application

Each coat of paint shall be applied to produce a film of uniform thickness. All paint shall be used in accordance with the manufacturer's instructions. Special attention shall be given to ensure that all surfaces including edges, corners, crevices, welds, and rivets receive a film thickness equivalent to that of adjacent painted surfaces.

1.5.12 Colors

The colors will be selected by the employer's representative from the paint manufacturer's standard color range.

1.5.13 Protection

Proper care must be taken to protect surfaces while still wet by using screens and 'wet paint' signs where necessary.

1.5.14 Damage

Care must be taken when preparing surfaces or painting etc. not to stain or damage other work. Dust sheets and covers to the satisfaction of the Architect shall be used to protect adjacent work. Any such stains or damage shall be removed and made good at the Contractor's expense.

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.

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Yours faithfully,



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