



The Kingdom of Eswatini

Eswatini Water and Agricultural Development Enterprise (EWADE)

Invitation To Tender (ITT) Document for the Procurement of Works

Procurement Method:	Open Tender
Subject of Procurement:	LOT 1 - CONSTRUCTION OF NINE RESETTLED HOMESTEADS AT CHALAZA UNDER THE MKHONDVO-NGWAVUMA WATER AUGMENTATION PROGRAMME (MNWAP) LOT 2 - CONSTRUCTION OF FOUR RESETTLED HOMESTEADS AT CHALAZA UNDER THE MKHONDVO-NGWAVUMA WATER AUGMENTATION PROGRAMME (MNWAP)
Procurement Reference Number:	EWADE/0742
Date of Issue:	17th June 2025
Participation	National

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PREFACE

This Tender Document has been prepared by the Eswatini Public Procurement Regulatory Agency to be used for the procurement of Works.

The document is customized to be consistent with the Public Procurement Act No. 07 of 2011, the Public Procurement Regulations, 2020, other of the Laws of Eswatini, and international best practices”.

This Invitation To Tender (ITT) shall be used to procure Works above E500,000.

The sale of this tender document to potential Contractor(s) is discouraged.

Those wishing to submit comments or questions on this Tender Document or to obtain additional information are encouraged to contact:

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LIST OF ACRONYMS

TDS	Tender Data Sheet
TS	Tender Security
TSD	Tender Securing Declaration
ESHS	Environmental, Social, Health and Safety
GCC	General Conditions of the Contract
ITT	Instruction to Contractors.
JV	Joint Venture
PE	Procuring Entity
STD	Standard Tender Document
SCC	Special Conditions of the Contract
SOR	Statement of Requirements.
TCS	Technical Compliance Selection

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Eswatini Water & Agricultural Development Enterprise

Standard Invitation to Contractors

TENDER NOTICE UNDER OPEN TENDERING WITHOUT PRE-QUALIFICATION

09th June 2025

LOT 1 - Construction of Nine Resettled Homesteads at Chalaza Under the Mkhondvo-Ngwavuma Water Augmentation Programme (MNWAP) – EWADE/0742

LOT 2 - Construction of Four Resettled Homesteads at Chalaza Under the Mkhondvo-Ngwavuma Water Augmentation Programme (MNWAP) – EWADE/0742

1. The Eswatini Water and Agricultural Development Enterprise has allocated/received funds to be used for the acquisition of Construction of Chalaza Resettled Homesteads Under the Mkhondvo-Ngwavuma Water Augmentation Project (MNWAP).
2. The Entity invites sealed Tenders from eligible Contractors, registered with the Construction Industry Council of Eswatini (CIC) under Category B3 Only, for the provision of the above works.
3. Tendering shall be conducted in accordance with the procedures contained in the Public Procurement Act of 2011 and the Regulations of 2020.
4. Interested eligible Contractors may obtain further information about the tender document at the address given below at 8(a) from 0800hrs to 1600hrs, Monday - Friday.
5. The Tender document which has been prepared in the *English language* may be obtained by interested Contractors at 8(b) upon payment of a non-refundable fee of E350. The method of payment will be through cash or EFT *with effect from 17th June 2025 until date of pre-bid meeting 27th June 2025.*
The account to use for EFT or bank transfer are as follows:

Account details for foreign & Local currency.

Bank: NEDBANK ESWATINI

Account name: ESWADE MNWAP

Account number: 12990577569

Branch: 360164

SWIFT Code: NESWSZMX

6. Tenders must be delivered to the address indicated below at 9(c) at or before 10am; *18th July 2025*. All Tenders must be accompanied by a Tender security of *E30,000.00 (Thirty Thousand Emalangeni)*. Tender securities must be valid until *14th November 2025*. Late Tenders shall be rejected. Tenders will be opened in the presence of the Contractors' representatives who choose to attend at the address below at 8(d) at *10.15am 18th July 2025*
7. There shall be a mandatory pre-Tender meeting/site visit at EWADE Hluthi Office (*Coordinates: 27° 12' 13.11" S, 31° 33' 21.94" E*) on the dates indicated in the proposed schedule in this notice.

Accountability, Excellence, Transparency, Fairness, Empowerment

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Part 1: Section 1 Instructions to Tenderers



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Siphofaneni | Tel: (+268) 2411 8600 | Fax: (+268) 2404 7954.
Email: info@eswade.co.sz | Web: www.eswade.co.sz

Eswatini Water & Agricultural Development Enterprise

8. Address and Contact Details:

(a)	Information about the tender may be accessed from:	Eswatini Water and Agricultural Development Enterprise (EWADE) EWADE Building Siphofaneni MR8 Eswatini
(b)	Documents will be issued from:	Eswatini Water and Agricultural Development Enterprise (EWADE) EWADE Building Siphofaneni MR8 Eswatini Tel. 2411 8600
(c)	Tenders must be delivered to:	The Tender Box Eswatini Water and Agricultural Development Enterprise (EWADE) EWADE LUSIP Damsite Office PO Box 198 Siphofaneni Eswatini Tel. 2411 8600
(d)	Address of Tender opening:	Eswatini Water and Agricultural Development Enterprise (EWADE) LUSIP Damsite Boardroom PO Box 198 Siphofaneni

9. The Planned Procurement Schedule (subject to changes) is as follows:

Activity	Date
(a) Issue of invitation to tender letter	17 th June 2025
(b) Pre-Tender meeting/ Site visits where applicable	27 th June 2025, 1000hrs
(c) Tender closing date	18 th July 2025, 1000hrs
(d) Tender opening date	18 th July 2025, 1015hrs
(e) Evaluation process	01 st August 2025
(f) Notification and Publication of Notice of Intention to Award	15 th August 2025
(g) Contract Award	29 th August 2025

Signature:

Name:

Position of Authorised Official:

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Section 1: Instructions to Tenderers

A. General

1. Scope of Tender

- 1.1 The Procuring Entity (PE), as defined in the Tender Data Sheet (TDS), invites Tenders for the construction of works, as described in the TDS. The name and procurement reference number of the Contract and number of lots in this Tender Document are provided in the TDS. The Instructions to Tenderers (ITT) should be read in conjunction with the TDS.
- 1.2 The successful Contractor will be expected to complete the works by the Intended Completion Date specified in the Special Conditions of Contract (SCC).
- 1.3 Throughout this Tender document:
 - (a) the “Contractor” means the service provider.
 - (b) “day” means calendar day unless specified as working day.
 - (c) “day works” means varied work inputs subject to payment on a time basis for the Contractor’s employees and Equipment, in addition to payments for associated Materials and Plant.
 - (d) the “Employer” means the Procuring Entity.
 - (e) “ESHS” means environmental, social (including sexual exploitation and abuse (SEA) and gender -based violence (GBV)), health and safety.
 - (f) “in writing” means hand-written, type-written, printed or electronically made, and resulting in a permanent record.

2. Source of Funds

- 2.1 The PE has an approved budget from Government fund towards the cost of the procurement named in the TDS. The PE intends to use these funds to place a contract for which this Tender Document is issued.
- 2.2 Payments will be made directly by the PE and shall be subject to the terms and conditions of the resulting contract placed by the PE.

3. Corrupt and Fraudulent Practices

- 3.1 It is the policy of the Government of The Kingdom of Eswatini through ESPPRA to require that PEs, as well as Contractors Sub- observe the highest standards of ethics during procurement and the execution of contracts.
 - (a) In pursuit of this policy, the Government of Eswatini defines for the purposes of this provision, the terms set forth below as follows:
 - (i) “corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value, to influence the action of a public official in the procurement process or in contract execution;
 - (ii) “fraudulent practice” means as any such practices under the code of ethics of the providers and not limited to misrepresentation of facts in order to influence a procurement or process or the execution of a contract to the detriment of the procuring or disposing entity, and includes collusive practices among Contractors prior to or after Tender submission designed to establish Tender prices at artificial

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Part 1: Section 1 Instructions to Tenderers

non-competitive levels and to deprive the PE of the benefits of free and competitive competition;

- (b) The PE shall reject a recommendation for award if the Contractor recommended for award has engaged in corrupt or fraudulent practices; and
- (c) The Agency shall suspend a contractor from engaging in any public procurement proceedings for a stated period of time in accordance with the Procurement Act and the Regulations made under the Act, if the provider has engaged in corrupt or fraudulent practices.

3.2 In pursuit of the policy defined in ITT Sub-Clause 3.1, the PE may terminate a contract for works, if it at any time determines that corrupt or fraudulent practices were engaged in by representatives of the PE or of a Contractor or sub-Contractor during the procurement or the execution of a contract.

3.3 In further pursuit of the policy defined in ITT Sub-Clause 3.1, the Agency requires representatives of both the PE and of Contractors and sub-Contractors to adhere to the relevant codes of ethical conduct. The Code of Ethical Conduct for Contractors and Providers as provided in the Tender forms shall be signed by the Contractor and submitted together with the other Tender forms.

3.4 Any communications between a Contractor and the PE related to matters of alleged fraud or corruption must be made in writing and addressed to the Controlling Officer of the PE.

4. Eligible Contractors

4.1 A Contractor, and all parties constituting the Contractor, shall meet the following criteria to be eligible to participate in public procurement:

- (a) The Contractor has the legal capacity to enter into a contract with the PE;
- (b) The Contractor is not:
 - (i) Insolvent;
 - (ii) In receivership;
 - (iii) Bankrupt; or
 - (iv) Being wound up
- (c) The Contractor's business activities have not been suspended;
- (d) The Contractor is not the subject of legal proceedings for any of the circumstances in (b); and
- (e) The Contractor has fulfilled his or her obligations to pay taxes and social security contributions.
- (f) The Contractor is not a member of the Entity Tender Board or an employee of the Procuring Entity.

4.2 A Contractor may be a physical person or artificial person, such as an entity. A combination of persons can Tender if they have an agreement to form a Joint Venture (JV), Consortium or Association. Such a Tender shall include a Power of Attorney from each party authorizing a representative to conduct all business for and on behalf of the party during the Tender process, contract signature and contract execution. Each party to the JV, Consortium or Association shall be a signatory to the contract with the PE and shall be jointly and severally liable.

4.3 A Contractor, and all parties constituting the Contractor including sub-contractors, shall have the nationality of an eligible country, in accordance with Section 5, Eligible Countries. A Contractor shall be deemed to have the nationality of a country if the Contractor is a citizen or is constituted, incorporated, or registered and operates in conformity with the provisions

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Part 1: Section 1 Instructions to Tenderers

- of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors for any part of the Contract including related services.
- 4.4 A Contractor shall not have a conflict of interest. Any Contractor found to have a conflict of interest shall be disqualified. A Contractor may be considered to have a conflict of interest with one or more parties in this Tendering process, if the Contractor:
- (a) Has controlling shareholding with another Contractor; or
 - (b) Receives or has received any direct or indirect subsidy from another Contractor; or
 - (c) Has the same authorized representative for purposes of this tendering process as another Contractor; or
 - (d) Has a relationship with another Contractor, directly or through common third parties, that puts the Contractor in a position to have access to information about or influence the Tender of another Contractor, or influence the decisions of the PE regarding this tendering process; or
 - (e) Submits more than one Tender in this Tendering process, except for alternative Tenders permitted under ITT 19. However, this does not limit the participation of subcontractors in more than one Tender, or as Contractors and subcontractors simultaneously; or
 - (f) Is associated, or has been associated in the past, directly or indirectly, with the consultant or any other entity that has prepared the design, specifications, and other documents for the Project or is being proposed as Project Manager for the Contract. A Contractor that has been engaged by the PE to provide consulting services for the preparation or supervision of the works, and any of its affiliates, shall not be eligible to Tender.
- 4.5 A Contractor that is suspended by the Agency shall not be eligible to participate in the Tendering process.
- 4.6 Government-owned enterprises shall be eligible only if they can establish that they are legally and operate under commercial law.
- 4.7 Contractors shall provide such evidence of their continued eligibility satisfactory to the PE, as the PE shall reasonably request.
- 4.8 To establish eligibility in accordance with ITT 4, a Contractor shall complete the eligibility declarations in the Tender Submission Sheet, included in Section 4, Tender Forms and submit the documents required in Section 3, Evaluation Methodology and Criteria.
- 4.9 A Contractor whose circumstances in relation to eligibility change during a procurement process or during the implementation of a contract, shall immediately inform the PE.
- 4.10 All materials, equipment and services to be used in the performance of the contract shall have as their country of origin an eligible country in accordance with Section 5, Eligible Countries.

5. Qualification of the Contractor

- 5.1 To establish its qualifications to perform the Contract, the Contractor shall complete and submit:
- (a) The Qualification Form provided in Section 4, Tendering Forms; and
 - (b) The information and documents stated in Section 3, Evaluation Methodology and Criteria.
- 5.2 The qualifications of the best evaluated Contractor will be assessed as part of a post-qualification in accordance with ITT 40.

6. Joint Ventures, Consortia and Associations

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Part 1: Section 1 Instructions to Tenderers

- 6.1 Tenders submitted by a JV, Consortium or Association shall include a copy of the Joint Venture, Consortium or Association Agreement signed by all parties to the Joint Venture, Consortium or Association Agreement.
- 6.2 In addition to the requirements under ITT 15.1, Tenders submitted by a joint venture, consortium or association of two or more firms as partners shall comply with the following requirements, unless otherwise stated in the TDS:
- (a) The Tender shall include all the information listed in Section 3, Evaluation Methodology and Criteria for each partner;
 - (b) The Tender shall be signed to be legally binding on all partners;
 - (c) All partners shall be jointly and severally liable for the implementation of the Contract in accordance with the Contract terms;
 - (d) One of the partners will be nominated as being in charge and receive instructions for and on behalf of any and all partners; and
 - (e) The implementation of the entire Contract shall be by the Joint Venture, consortium or association.

7. One Tender per Contractor

Each Contractor shall submit only one Tender, either individually or as a partner in a joint venture, consortium or association. A Contractor who submits or participates in more than one Tender (other than as a subcontractor or in cases of alternatives that have been permitted or requested) shall cause all the Tenders with the Contractor's participation to be rejected.

8. Cost of Tendering

The Contractor shall bear all costs associated with the preparation and submission of his Tender, and the PE shall not be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering process.

9. Site Visit and Pre-Tender Meeting

- 9.1 The Contractor, at the Contractor's own responsibility and risk, is encouraged to visit and examine the site of works and its surroundings and obtain all information that may be necessary for preparing the Tender and entering into a contract for construction of the works. The costs of visiting the site shall be at the Contractor's own expense.
- 9.2 The Contractor and any of its authorized personnel or agents shall be granted permission by the PE to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Contractor, its personnel, and agents will release and indemnify the PE and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
- 9.3 If so indicated in the TDS, the PE will hold a pre-tender meeting or site visit at the time, date and location specified in the TDS to clarify issues and to answer questions on any matter that may be raised at that stage.
- 9.4 Contractors may submit any questions in writing to the Entity prior to the date of the meeting and may also orally raise questions at the meeting.
- 9.5 Minutes of the pre-tender meeting, if any was held, including the text of the questions asked by Contractors, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Contractors who

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Part 1: Section 1 Instructions to Tenderers

have acquired the Tendering Documents. Any modification to the Tendering Documents that may become necessary as a result of the pre-Tender meeting shall be made by the PE exclusively through the issue of an Addendum pursuant to ITT 12 and not through the minutes of the pre-Tender meeting. Unless otherwise indicated in the TDS, non-attendance at the site visit shall not cause disqualification of a Contractor.

10. Margin of Preference

- 10.1 Unless otherwise specified in the TDS, a margin of preference shall apply. Where the margin of preference applies, its application and detail shall be specified in Section 3, Evaluation Methodology and Criteria.

B. Tendering Document

11. Content of Tendering Document

- 11.1 The Tendering Document consists of Parts 1, 2, and 3, which includes all the Sections indicated below, and should be read in conjunction with any addenda issued in accordance with ITT Clause 13.

PART 1 Tendering Procedures

- Section 1. Instructions to Contractors (ITT)
- Section 2. Tender Data Sheet (TDS)
- Section 3. Evaluation Methodology and Criteria
- Section 4. Tendering Forms
- Section 5. Eligible Countries

PART 2 Statement of Requirements

- Section 6. Statement of Requirements

PART 3 Contract

- Section 7. General Conditions of Contract (GCC)
- Section 8. Special Conditions of Contract (SCC)
- Section 9. Contract Forms

- 11.2 Unless obtained directly from the Employer, the Employer is not responsible for the completeness of the Tendering Documents, responses to requests for clarification, the minutes of the pre-Tender meeting (if any), or Addenda to the Tendering Documents.
- 11.3 The Contractor is expected to examine all instructions, forms, terms and specifications in the Tendering Document and to furnish with its Tender all information and documentation required by the Tendering Documents.

12. Clarification of Tendering Document

A Contractor requiring any clarification of the Tendering Document shall contact the PE in writing at the PE's address indicated in the TDS. The PE will respond in writing to any request for clarification, provided that such a request is received no later than the date indicated in the TDS. The PE shall forward copies of its response to all Contractors who have acquired the Tendering Document, including a description of the inquiry but without identifying its source. Should the PE deem it necessary to amend the Tendering Document as a result of a clarification, it shall do so following the procedure under ITT 13 and ITT 24.2.

13. Amendment of Tendering Document

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- 13.1 Prior to the deadline for submission of Tenders, the PE may amend the Tendering Document by issuing an addendum.
- 13.2 Any addendum issued shall be part of the Tendering Document and shall be communicated in writing to all who have obtained the Tendering Document directly from the PE.
- 13.3 To give Contractors reasonable time in which to take an addendum into account in preparing their Tenders, the PE shall extend the deadline for submission of Tenders by a reasonable period in the event that less than one third of the Tendering period remains after the issue date of the addendum. The PE may, at its discretion, extend the deadline for the submission of Tenders, where more than one third of the Tendering period remains after the date of issue of the addendum.

C. Preparation of Tenders

14. Language of the Tender and Communications

- 14.1 The Tender shall be in writing.
- 14.2 The Tender, as well as all correspondence and documents relating to the Tender exchanged between the Contractor and the PE, shall be written in English or unless otherwise specified in the TDS.
- 14.3 Supporting documents and printed literature that are part of the Tender may be in another language provided they are accompanied by an accurate translation by a competent institution of the relevant passages to the language stated in the ITT Sub-clause 14.2. In which case, for purposes of interpretation of the Tender, such translation shall govern.

15. Documents Comprising the Tender

- 15.1 The Tender submitted by the Contractor shall comprise the following:
 - (a) The Tender Submission Sheet, in accordance with ITT 15.2;
 - (b) A Tender Security or a Tender Securing Declaration in accordance with ITT 20;
 - (c) Written confirmation authorising the signatory of the Tender to commit the Contractor, in accordance with ITT 22;
 - (d) Documentary evidence in accordance with ITT 4.8 establishing the Contractor's eligibility to Tender;
 - (e) A priced Activity Schedule or Bill of Quantities in accordance with ITT 16 and 17;
 - (f) The Qualification Form and Documents in accordance with ITT 5;
 - (g) Technical documentation (description of the proposed work method and schedule, including drawings and charts, as necessary) in accordance with ITT 16;
 - (h) The duly signed Code of Ethical Conduct for Contractors and Providers in accordance with ITT 3.3; and
 - (i) Any other document(s) required in the TDS.
- 15.2 The Contractor shall submit the Tender Submission Sheet using the form provided in Section 4, Tendering Forms. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled with the information requested.

16. Technical Documentation

- 16 The Contractor shall furnish technical documentation including a statement of work, equipment, personnel, schedule and any other information as stipulated in Section 4,

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Tendering Forms, in sufficient detail to demonstrate the adequacy of the Contractor's proposal to meet the work's requirements and the completion time.

17. Tender Prices and Discounts

- 17.1 The prices and discounts quoted by the Contractor in the Tender Submission Sheet and in the Priced Activity Schedules or Bills of Quantities submitted by the Contractor shall conform to the requirements specified below.
- 17.2 The Contractor shall fill in rates and prices for all items of the works described in the Bill of Quantities. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items. Items not listed in the Price Schedule shall be assumed not to be included in the Tender, and provided that the Tender is substantially responsive, the corresponding adjustment shall be applied in accordance with ITT 32.3.
- 17.3 The price to be quoted in the Tender Submission Sheet shall be the total price of the Tender, excluding any discounts offered. In the event that taxes are not exempt, the price must include any applicable taxes.
- 17.4 The Contractor shall quote any unconditional and conditional discounts in the Tender Submission Sheet.
- 17.5 The total Tender price shall be for the whole works based on the priced Activity Schedule or Bill of Quantities submitted by the Contractor.
- 17.6 The contract price or tender price quoted by the Contractor shall be subject to adjustment during the performance of the Contract if provided for in the SCC and the provisions of Clause 47 of the GCC.

18. Currencies of Tender and Payment

- 18.1 Tender prices for works and related services originating in and outside Eswatini shall be quoted in Eswatini Lilangeni unless authorised by a competent authority.
- 18.2 If authorised by the competent authority the Contractor shall utilise the rate of exchange specified in the TDS to express its offer. The source, date and type of exchange rate shall be indicated in ITT 36.
- 18.3 If authorised by the competent authority, Contractors shall indicate details of their expected foreign currency requirements in the Tender. Foreign currency requirements shall be indicated as a percentage of the Tender price (excluding provisional sums) and shall be payable at the option of the Contractor in up to two foreign currencies, unless otherwise stated in the TDS.
- 18.4 If authorised by the competent authority, Contractors may be required by the PE to clarify their foreign currency requirements and to substantiate that the amounts included in the lump sum and in the SCC are reasonable and responsive to ITT 18.3.

19. Tender Validity

- 19.1 Tenders shall remain valid until the date specified in the TDS. A Tender valid for a shorter period shall be rejected by the PE as non-compliant while a Tender valid for a longer period than the date specified in the TDS shall not be rejected but shall only be valid until the date in the TDS.
- 19.2 The PE shall make its best effort to complete the procurement process within the duration of the validity period specified in the TDS. A PE must ensure the validity of Tenders, Tender securities and Tender securing declarations throughout the procurement process until contract signature.



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- 19.3 In exceptional circumstances, prior to the expiration of the Tender validity period, the PE may request Contractors to extend the period of validity of their Tenders. The request and the responses shall be made in writing. If a Tender Security or a Tender Securing Declaration is requested in accordance with ITT Clause 20, it shall also be extended for a period corresponding to the extension of the Tender validity. A Contractor may refuse to extend its Tender validity period without forfeiting its Tender Security or Tender Securing Declaration. A Contractor who extends the validity periods of its Tender and Tender security or Tender securing declaration shall not be required or permitted to modify its Tender.

20. Tender Security or Tender Securing Declaration

- 20.1 The Contractor shall furnish as part of its Tender either a Tender Security or a Tender Securing Declaration as specified in the TDS in original form and, in the case of a Tender Security, in the amount and currency specified in the TDS.
- 20.2 If a Tender security is specified pursuant to ITT 20,1, the Tender security shall be a demand guarantee in the amount specified in the TDS and denominated in Eswatini Lilangeni or a freely convertible currency, and shall:
- (a) Be issued by a reputable financial institution selected by the Contractor from an eligible country. If the institution issuing the security is located outside Eswatini, it shall be enforceable through a financial institution located in Eswatini.
 - (b) Be in the form of the Tender security included in section 4, Tendering forms;
 - (c) Be discharged by the financial institution immediately upon written demand by the PE in case the conditions stated in the Tender security are invoked;
 - (d) Be included in the Tender and submitted in its original form - copies shall not be accepted.
- 20.3 The Tender Security or Tender Securing Declaration shall be submitted using the appropriate form included in Section 4, Tendering Forms and shall be valid until the date specified in the TDS.
- 20.4 Any Tender not accompanied by appropriate Tender Security or Tender Securing Declaration, shall be rejected by the PE as non-compliant.
- 20.5 The Tender Security of all Contractors shall be returned as promptly as possible once the successful Contractor has signed the contract and provided the required Performance Security and ESHS Performance Security where applicable.
- 20.6 The Tender Security or Tender Securing Declaration of a JV, Consortium or Association must be issued in the names of all their members or partners.
- 20.7 The Tender Security may be forfeited, or the conditions of the Tender Securing Declaration executed in the following circumstances:
- (a) If a Contractor withdraws its Tender during the period of Tender validity specified by the Contractor in the Tender Submission Sheet, or during any extension thereto;
 - (b) If a Contractor fails to accept the correction of its Tender price pursuant to ITT Sub-Clause 32.5; or
 - (c) If the successful Contractor fails to:
 - (i) Sign the Contract in accordance with ITT 45;
 - (ii) Furnish a Performance Security and if required in the TDS, the Environmental, Social, Health and Safety (ESHS) Performance Security in accordance with ITT 46.2.

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21. Alternative Tenders

- 21.1 Contractors shall submit offers that comply with the requirements of the Tendering documents, including the basic technical design as indicated in the drawings and specifications. Alternative Tenders shall not be permitted.

22. Format and Signing of Tender

- 22.1 The Contractor shall prepare one original of the documents comprising the Tender as described in ITT Clause 14 and clearly mark it "ORIGINAL." In addition, the Contractor shall submit copies of the Tender, in the number specified in the TDS, and clearly mark each of them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.
- 22.2 The original and all copies of the Tender shall be signed by the Contractor in the event that he or she is a physical person personally submitting the Tender and in any other event by a person duly authorised to sign on behalf of the Contractor. This authorisation shall consist of a Power of Attorney which if signed in Eswatini shall be registered with the competent authority and if signed outside Eswatini, shall be notarized. The Power of Attorney shall be submitted in the Tender. The name and position held by each person signing the authorisation must be typed or printed below the signature. All pages of the Tender, except for un-amended printed literature, shall be signed or initialled by the person authorized to sign the Tender.
- 22.3 The Tender shall contain no alterations or additions, except those to comply with instructions issued by the PE, or as necessary to correct errors made by the Contractor, in which case such corrections shall be initialed by the person(s) signing the Tender.
- 22.4 In the case of Tenders submitted by a JV, Consortium or Association, each member or partner shall nominate a representative through the power of attorney to conduct all business on its behalf during the Tender preparation, Tendering process and contract execution in case of award of the contract. Each representative duly nominated through the power of attorney shall commit each respective member or partner by executing a JV, Consortium or Association agreement providing; that the parties shall jointly submit a Tender, naming the lead member or partner and authorizing the representative of the lead member or partner who was granted power of attorney to sign the Tender.
- 22.5 Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Tender.

D. Submission and Opening of Tenders

23. Sealing and Marking of Tenders

- 23.1 The Contractor shall enclose the original and each copy of the Tender, in separate sealed envelopes or packages, duly marking the envelopes as "ORIGINAL" and "COPY." These envelopes or packages containing the original and the copies shall then be enclosed in one single plain envelope or package securely sealed in such a manner that opening and resealing cannot be achieved undetected and shall be submitted as specified in the TDS.
- 23.2 The inner and outer envelopes shall:
- (a) Bear the name and address of the Contractor;
 - (b) Be addressed to the PE in accordance with ITT 23.1;
 - (c) Bear the Procurement Reference number of this Tendering process; and
 - (d) Bear a warning not to open before the time and date for Tender opening, in accordance with ITT 23.1.

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- 23.3 If all envelopes are not sealed and marked as required, the PE will assume no responsibility for the misplacement or premature opening of the Tender.

24. Deadline for Submission of Tenders

- 24.1 Tenders must be received by the PE at the address and no later than the date and time indicated in the TDS. When so specified in the TDS, Contractors shall have the option of submitting their Tenders electronically. Contractors submitting Tenders electronically shall follow the electronic Tender submission procedures specified in the TDS.
- 24.2 The PE may, at its discretion, extend the deadline for the submission of Tenders by amending the Tendering Documents in accordance with ITT 13, in which case all rights and obligations of the PE and Contractors previously subject to the deadline shall thereafter be subject to the deadline as extended.

25. Late Tenders

The PE shall not consider any Tender that arrives after the deadline for submission of Tenders, in accordance with ITT 24. Any Tender received by the PE after the deadline for submission of Tenders shall be declared late, rejected, and returned unopened to the Contractor.

26. Withdrawal and Replacement of Tenders

- 26.1 A Contractor may withdraw or replace its Tender after it has been submitted at any time before the deadline for submission of Tenders by sending a written notice, duly signed by an authorised representative, which shall include a copy of the authorisation in accordance with ITT 24.2. Any corresponding replacement of the Tender must accompany the respective written notice. All notices must be:
- (a) Submitted in accordance with ITT 23 and 24 (except that withdrawals notices do not require copies), and in addition, the respective envelopes shall be clearly marked “Withdrawal,” or “REPLACEMENT,” and
 - (b) Received by the Procuring Entity prior to the deadline prescribed for submission of Tenders, in accordance with ITT Clause 24.
- 26.2 Tenders requested to be withdrawn in accordance with ITT Sub-Clause 24.1 shall be returned unopened to the Contractor.
- 26.3 No Tender may be withdrawn or replaced in the interval between the deadline for submission of Tenders and the expiration of the period of Tender validity specified by the Contractor in the Tender Submission Sheet or any extension thereof.
- 26.4 Tenders may only be modified by withdrawal of the original Tender and submission of a replacement Tender in accordance with ITT Sub-Clause 26.1. Modifications submitted in any other way shall not be taken into account in the evaluation of Tenders.
- 26.5 Contractors may only offer discounts to, or otherwise modify the prices of their Tenders, by withdrawing and replacing their Tender in accordance with this clause, or by including the discount in the original Tender submission in accordance with ITT 17.

27. Tender Opening

- 27.1 The PE shall conduct the Tender opening in the presence of Contractors’ designated representatives who choose to attend, and at the address, date and time specified in the TDS. Any specific electronic Tender opening procedures required if electronic Tendering is permitted in accordance with ITT 24.1 shall be as specified in the TDS.

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- 27.2 First, envelopes marked “WITHDRAWAL” shall be opened and read out and the envelope with the corresponding Tender shall not be opened but returned to the Contractor. No Tender withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorisation to request the withdrawal and is read out at the Tender opening.
- 27.3 All other envelopes including those marked “REPLACEMENT” shall be opened and the relevant details read out. Replacement Tenders shall be recorded as such on the record of the Tender opening. The corresponding tender that is being replaced shall be returned unopened to the contractor.
- 27.4 Only envelopes or packages that are opened and read out at the Tender opening shall be evaluated.
- 27.5 All other envelopes shall be opened one at a time, reading out: the name of the Contractor; the Tender price, per lot where applicable, including any discounts; the presence of a Tender Security or Tender Securing Declaration; and any other details as the Procuring Entity may consider appropriate. No Tender shall be rejected at the Tender opening except for late Tenders, in accordance with ITT 25
- 27.6 The PE shall prepare a record of the Tender opening that shall include, as a minimum: the name of the Contractor and whether there is a withdrawal and/or replacement; the total Tender price or the Tender price per lot if applicable, including any discounts; the presence or absence of a Tender Security or Tender Securing Declaration, and whether a Power of Attorney was submitted. The Contractors’ representatives who are present shall be requested to sign the record. The omission of a Contractor’s signature on the record shall not invalidate the contents and effect of the record. 27.7 The opened tenders shall immediately to taken to a secure location, where they shall be kept until the evaluation begins.

E. Evaluation of Tenders

28. Confidentiality

- 28.1 Information relating to the examination, evaluation, comparison, and post-qualification of Tenders, and recommendation of contract award, shall not be disclosed to Contractors or any other persons not officially concerned with such process until information detailing the Best Evaluated Contractor is communicated to all Contractors.
- 28.2 Any attempt by a Contractor to influence the PE in the examination, evaluation, comparison, and post-qualification of the Tenders or contract award decisions may result in the rejection of its Tender.
- 28.3 Notwithstanding ITT 28.2, from the time of Tender opening to the time of Contract award, if any Contractor wishes to contact the PE on any matter related to the Tendering process, it should do so in writing.

29. Evaluation of Tenders

- 29.1 The PE shall use the criteria and methodologies listed in Section 3, Evaluation Methodology and Criteria. No other evaluation criteria or methodology shall be permitted. By applying the set criteria and methodology, the PE shall determine the Best Evaluated Tender.
- 29.2 If this Tendering document allows Contractors to quote separate prices for different lots, the methodology to determine the Best Evaluated Tender for a lot shall be as specified in Section 3, Evaluation Methodology and Criteria.

30. Clarification and Changes to Tenders



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- 30.1 To assist in the examination, evaluation, comparison and post-qualification of the Tenders, the Procuring Entity may, at its discretion, ask any Contractor for a clarification of its Tender, including breakdowns of unit rates or prices. Any clarification submitted by a Contractor that is not in response to a request by the PE shall not be considered. The PE's request for clarification and the Contractor's response shall be in writing. No change in the prices or substance of the Tender shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the PE in the evaluation of the Tenders, in accordance with ITT 32.
- 30.2 If a Contractor does not provide clarifications of its Tender by the date and time set in the PE's request for clarification, its Tender may be rejected.

31. Compliance and Responsiveness of Tenders

- 31.1 The PE's determination of a Tender's compliance and responsiveness is to be based only on the contents of the Tender itself with the exception of findings recorded in the Evaluation Report after a due diligence or post qualification.
- 31.2 A substantially compliant and responsive Tender is one that conforms to all the terms, conditions, and specifications of the Tendering Document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:
- (a) Affects in any substantial way the scope, quality, or performance of the Works specified in the Contract; or
 - (b) Limits in any substantial way, inconsistent with the Tendering Document, the PE's rights or the Contractor's obligations under the Contract; or
 - (c) If rectified would unfairly affect the competitive position of other Contractors presenting substantially compliant and responsive Tenders.
 - (d) Impacts the key factors of a procurement including cost, risk, time and quality and causes -
 - (i) Unacceptable time schedules, where it is stated in the Tendering document that time is of the essence;
 - (ii) Unacceptable alternative technical details, such as design, materials, workmanship, specifications, standards or methodologies; or unacceptable counter-Tenders with respect to key contract terms and conditions, such as payment terms, price adjustment, liquidated damages, sub-contracting or warranty.
- 31.3 If a Tender is not substantially compliant and responsive to the Tendering Document, it shall be rejected by the PE and may not subsequently be made compliant and responsive by the Contractor by correction of the material deviation, reservation, or omission.

32. Nonconformities, Errors, and Omissions

- 32.1 Provided that a Tender is substantially compliant and responsive, the PE may waive any non-conformity or omission in the Tender that does not constitute a material deviation.
- 32.2 Provided that a Tender is substantially compliant and responsive, the PE may request that the Contractor submit the necessary information or documentation, within a reasonable period of time, to rectify non-material nonconformities or omissions in the Tender related to documentation requirements. Such an omission shall not be related to any aspect of the price of the Tender. Failure of the tender to comply with the request may result in the rejection of its Tender.
- 32.3 Provided that a Tender is substantially compliant and responsive, the PE shall rectify nonmaterial nonconformities or omissions. To this effect, the Tender price shall be adjusted,



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for comparison purposes only, to reflect the price of the missing or non-conforming item or component. The cost of any missing items will be added to the Tender price using the highest price from other Tenders submitted.

- 32.4 Provided that the Tender is substantially compliant and responsive, the PE shall correct arithmetic errors on the following basis:
- (a) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the PE there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
 - (b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail, and the total shall be corrected; and
 - (c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.
- 32.5 If a Contractor does not accept the correction of errors, the Tender shall be rejected, and the Tender Security may be forfeited or conditions in the Tender Securing Declaration executed.

33. Stages of Evaluation: Using the Technical Compliance Selection Evaluation Method

The evaluation of a Tender for the procurement of works using the technical compliance evaluation method shall be conducted under the following stages:

34. Preliminary Examination of Tenders – Eligibility and Administrative Compliance

- 34.1 The PE shall examine the legal documentation to establish the eligibility of the Contractors and to verify the validity and authenticity of the documents submitted by the Contractor.
- 34.2 If after the examination of eligibility, the PE determines that the Tender is not compliant, it shall reject the Tender with the exception of rectification of omissions in accordance with ITT 32.2.
- 34.3 The PE shall confirm that the following administrative compliance documents and information have been provided in the Tender. If any of these documents or information is missing or contrary to the requirements in the Tendering document, the Tender shall be rejected.
- (a) The Tender Submission Sheet duly signed by the authorized representative of the Contractor, including:
 - (i) A brief description of the works and related services offered;
 - (ii) The total price of the Tender; and
 - (iii) The appropriate duration of the Tender validity;
 - (b) The Price Schedule;
 - (c) A Power of Attorney in accordance with ITT 22.2; and
 - (d) An authentic Tender Security or Tender Securing Declaration, whichever is applicable, in the appropriate form and amount.
- 34.4 Eligibility and administrative compliance shall be determined on a pass or fail basis and a Tender which is not eligible or administratively compliant shall be rejected at the preliminary stage of evaluation.

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35. Technical Evaluation

- 35.1 The PE shall examine the technical aspects of the Tender submitted in accordance with ITT 16, in particular, to confirm that all requirements of Section 6, Statement of Requirements (SoRs) have been met without any material deviation, reservation or omission.
- 35.2 The determination shall be based upon an examination of the documentary evidence of the Contractor's qualifications submitted by the Contractor, pursuant to ITT Clause 5, to clarifications in accordance with ITT Clause 30 and the qualification criteria indicated in Section 3, Evaluation Methodology and Criteria.
- 35.3 If, after the examination of the terms, conditions and requirements, the PE determines that the Tender is not substantially responsive in accordance with ITT 31, it shall reject the Tender.

36. Currency and Exchange Rate

- 36.1 The currency that shall be used for evaluation purposes for all Tenders shall be Eswatini Lilangeni unless otherwise authorized by a competent authority.
- 36.2 The exchange rate shall be the prevailing Central Bank of Eswatini exchange rate and shall not precede the tender submission deadline by less than 21 days. Should this date be a non-working day, the selling exchange rate on the date prior to this non-working day shall be used for currency conversion or as otherwise specified in the TDS.

37. Financial Comparison of Tenders

- 37.1 The PE will evaluate and compare only the Tenders determined to be substantially responsive following Technical Evaluation in accordance with ITT 37.3.
- 37.2 To financially evaluate a Tender, the PE shall only use the criteria and methodologies defined in this clause and in Section 3, Evaluation Methodology and Criteria. No other criteria or methodology shall be permitted.
- 37.3 To financially compare Tenders, the PE shall:
- (a) Correct any arithmetic errors in accordance with ITT 30.1;
 - (b) Apply any discounts offered in accordance with ITT 17;
 - (c) Make adjustments for any deviation that is not a material deviation in accordance with ITT 32;
 - (d) Convert all Tenders to a single currency in accordance with ITT 18;
 - (e) Apply any margin of preference, in accordance with ITT 38;
 - (f) Determine the total evaluated price of each Tender.
- 37.4 The PE shall consider prices that appear to:
- (a) Be unbalanced;
 - (b) Show a misunderstanding of the requirements; or
 - (c) Be intended to front load earnings.
- 37.5 The PE reserves the right to accept or reject any variation, deviation, or alternative offer. Variations, deviations, and alternative offers and other factors which are in excess of the requirements of the Tendering documents or otherwise result in unsolicited benefits for the PE will not be taken into account in Tender evaluation, unless otherwise specified in Section 3, Evaluation Methodology and Criteria.
- 37.6 The estimated effect of any price adjustment conditions under Clause 47 of the GCC, during the period of implementation of the Contract, will not be taken into account in Tender evaluation, unless otherwise indicated in Section 3, Evaluation Methodology and Criteria.

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Part 1: Section 1 Instructions to Tenderers

38. Margin of Preference

- 38.1 Unless otherwise specified in the TDS, a margin of preference shall apply. Where a Margin of Preference applies, its application and detail shall be specified in Section 3, Evaluation Methodology and Criteria.
- 38.2 For the purpose of granting a margin of domestic preference, Tenders will be classified in two groups, as follows:
- (a) Group A: Swati Company participating alone in the tender [*In accordance with Regulation 12(2) of the Procurement Regulations, 2020*]
 - (b) Group B: Foreign Company sub-contracting or partnering with a Swati company [*In accordance with Regulation 12(5) of the Procurement Regulations, 2020*]

39. Determination of Best Evaluated Tender

The best evaluated Tender shall be the lowest priced Tender which is eligible, administratively and technically compliant to the requirements specified in the Tendering document.

F. Award of Contract

40. Award Procedure and Notice of Intention to Award

- 40.1 An award decision by the relevant approvals authority is not a contract. The Contractor with the best evaluated Tender shall be awarded the contract following an adjudication by the relevant approvals authority.
- 40.2 The PE shall issue a Notice of Intention to Award within five (5) working days after the decision of the relevant approvals authority to all Contractors who participated in the Tendering process and the Agency for publication on its website
- 40.3 No contract shall be awarded within the period of ten (10) working days after the date of issuance of the Notice of Intention to Award.
- 40.4 Negotiations will only be held in exceptional circumstances as provided for under the Procurement Act.

41. PE's Right to Accept any Tender and to Reject any or all Tenders

The PE reserves the right to accept or reject any Tender and to cancel the Tendering process at any time prior to contract award, without thereby incurring any liability, subject to adherence to Regulation 26 and 27. of the Public Procurement Regulations of 2020.

42. Confirmation of Award

An award shall be confirmed by acceptance of a Letter of Award by the contractor.

43. Signing and Effectiveness of Contract

- 43.1 On expiry of the ten (10) working day period after issuance of the letter of appointment to the best evaluated Contractor, the PE shall promptly sign a contract with the successful Contractor.
- 43.2 Failure by the successful Contractor to promptly sign the contract shall constitute sufficient ground for annulment of the contract award decision and forfeiture of the Tender Security or execution of the Tender Securing Declaration. In that event, the PE may award the Contract

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Part 1: Section 1 Instructions to Tenderers

to the next best ranked Contractor whose Tender was evaluated at the financial comparison stage.

43.3 Effectiveness of the contract shall be subject to submission of a satisfactory performance security where applicable and any other conditions specified in the Contract.

43.4 A contract shall not be entered into by the Controlling Officer with a Contractor during the period of administrative review.

44. Debriefing of Contractors

44.1 The Contractor shall be provided with information on the reasons for the failure of its Tender after the notice of Intention to Award has been issued. The Procuring Entity shall give the Contractor a written debrief.

45. Performance Security

45.1 Within twenty-one (21) calendar days after signing of the contract, the successful Contractor shall where applicable, furnish to the PE a Performance Security and the Environmental, Social, Health and Safety (ESHS) Performance Security if required in the TDS, in the amount stipulated in the SCC and in the form of an on demand Bank Guarantee as stipulated in Section 9, denominated in the type and proportions of the currencies of the Contract. The Performance Security shall be issued by a Bank located in Eswatini or a foreign Bank through correspondence with a Bank located in Eswatini. Notwithstanding the foregoing and unless the acceptance of a performance security by the procuring entity would be in violation of the laws of Eswatini, a procuring entity shall not reject a performance security on the grounds that the performance security was not issued by the issuer in Eswatini, if the performance security and the issuer otherwise conform to the requirements prescribed in the invitation document.

45.2 Failure of the successful Contractor to submit the above-mentioned Performance Security and the Environmental, Social, Health and Safety (ESHS) Performance Security, if required in the TDS, shall constitute sufficient ground for annulment of the contract award decision. In this case, or where the successful Contractor fails to sign the contract as stated in ITT Clause 43.2, the successful Contractor's Tender Security shall be forfeited, or the conditions of the Tender Securing Declaration shall be executed. In that event, the PE may award the contract to the next best ranked Contractor whose Tender was evaluated at the financial comparison stage.

46. Procurement Related Complaints and Administrative Review

46.1 The procedures for making a Procurement-related Complaint are as specified in the TDS

47. Abnormally Low and Abnormally High Prices

47.1 Abnormally Low Prices

47.1.1 An Abnormally Low Price is one where the financial price, in combination with other constituent elements of the Tender, appears unreasonably low to the extent that the price raises material concerns with the Procuring Entity as to the capability of the Contractor to perform the Contract for the offered price.

47.1.2 In the event of identification of a potentially Abnormally Low Price by the evaluation committee, the Procuring Entity shall seek written clarification from the firm, including

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Part 1: Section 1 Instructions to Tenderers

a detailed price analysis of its price in relation to the subject matter of the contract, scope, delivery schedule, allocation of risks and responsibilities and any other requirements of the Tendering document.

- 47.1.3 After evaluation of the price analyses, if the Procuring Entity determines that the firm has failed to demonstrate its capability to perform the contract for the offered price, the Procuring Entity shall reject the firm's Tender.

47.2 Abnormally High Prices

- 47.2.1 An abnormally high price is one where the proposal price, in combination with other constituent elements of the Tender, appears unreasonably too high to the extent that the Procuring Entity is concerned that it (the Procuring Entity) may not be getting value for money or it may be paying too high a price for the contract compared with market prices or that genuine competition between the Contractors is compromised.

- 47.2.2 In case of an abnormally high tender price, the Procuring Entity shall make a survey of the market prices, check if the estimated cost of the contract is correct and review the Tendering Document to check if the specifications, scope of work and conditions of contract are contributory to the abnormally high proposals. The Procuring Entity may also seek written clarification from the Contractor on the reason or the high Tender price. The Procuring Entity shall proceed as follows:

- i) If the Tender price is abnormally high based on wrong estimated cost of the contract, the Procuring Entity may accept or not accept the proposal depending on the Procuring Entity's budget considerations.
- ii) If specifications, scope of work and/or conditions of contract are contributory to the abnormally high proposal prices, the Procuring Entity shall reject all Tenders and may re-invite for Tenders for the contract based on revised estimates, specifications, scope of work and conditions of contract.

- 47.2.3 If the Procuring Entity determines that the Tender Price is abnormally too high because genuine competition between Contractors is compromised (often due to collusion, corruption or other manipulations), the Procuring Entity shall reject all Tenders and shall institute or cause competent Government Agencies to institute an investigation on the cause of the compromise and copy ESPPRA, before re-inviting tenders.

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Section 2: Tender Data Sheet

Instructions to Contractors Reference	Data relevant to the ITT
ITT 1.1	The Procuring Entity is: Eswatini Water and Agricultural Development Enterprise (EWADE)
ITT 1.1	The works consist of: LOT 1 - Construction of Nine Resettled Homesteads at Chalaza Under the Mkhondvo-Ngwavuma Water Augmentation Programme (MNWAP) LOT 2 - Construction of Four Resettled Homesteads at Chalaza Under the Mkhondvo-Ngwavuma Water Augmentation Programme (MNWAP)
ITT 1.1	The Procurement Reference Number of the Contract is: EWADE/0742
ITT 1.1	The number and identification of lots comprising this Tendering Document is: EWADE/0742 The minimum and maximum number of lots a Contractor may Tender for is: Minimum – One (1) lot Maximum - Two (2) Lots.
ITT 9.3	The PE shall be holding a compulsory pre-Tender meeting or site visit. If a pre-Tender meeting / Site visit is to be held, it shall take place at: Location: EWADE Hluthi Office Date: 27 th June 2025, Time: 1000hrs
ITT 9.5	Site visit shall be a mandatory requirement.
ITT 12	For clarification purposes only, the Procuring Entity's address is: Attention: The Procurement Manager Physical Address: EWADE Building Siphofaneni MR8 Telephone: 2411 8600 Electronic mail address: tenders@ewade.co.sz
ITT 12	The Procuring Entity will respond to any request for clarification provided that such request is received no later than 1600hrs 11 th July 2025.
ITT 14.2	The language of the Tender shall be English.
ITT 15.1(i)	The Contractor shall submit with its Tender the following additional documents: a) Declaration of Eligibility of Contractor

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Instructions to Contractors Reference	Data relevant to the ITT
	<p>b) Proof of Authority of Signatory</p> <p>c) E 30,000.00 Tender Bond</p> <p>d) Certificate of Attendance at Pre-Bid Meeting</p> <p>e) Certificate of Attendance at Clarification Meeting</p> <p>f) Certified copy of valid certificate with the CIC under Category B3 Only</p> <p>ESHS Code of Conduct for Contractor's Personnel</p> <p>The Contractor shall submit its Code of Conduct that will apply to the Contractor's Personnel to ensure compliance with its Environmental, Social, Health and Safety (ESHS) obligations under the contract. <i>[Note: Complete and include the risks to be addressed by the Code in accordance with Section VI- Statement of Requirements, e.g. risks associated with labour influx, spread of communicable diseases, sexual harassment, gender-based violence, sexual exploitation and abuse, illicit behaviour and crime, and maintaining a safe environment etc.]</i></p> <p>In addition, the Contractor shall detail how this Code of Conduct will be implemented. This will include: how it will be introduced into conditions of employment/engagement, what training will be provided, how it will be monitored and how the Contractor proposes to deal with any breaches.</p> <p>The Contractor shall be required to implement the agreed Code of Conduct.</p> <p>Environment and Social Management Plan (ESMP)</p> <p>The Contractor shall be required to submit for approval, and subsequently implement, the Contractor's Environment and Social Management Plan that includes the Strategies and Implementation Plans described below:</p> <ul style="list-style-type: none"> • Dust Control Plan • Erosion and Sedimentation Plan • Environment Protection Plan • Access Road Plan • Labour Influx Management Plan • Community Health and Safety Plan • SEAH-GBV Plan • Waste Management Plan • HSE Disciplinary Code of Conduct Process • Air Emission Control Plan • Emergency Response Plan • Water Resource Protection Plan • Permit Strategy Plan • Hazardous Material Management Plan • Traffic Management Plan • Spoil Disposal Management Plan • Noise Management Plan

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Part 1: Section 2 Tender Data Sheet

Instructions to Contractors Reference	Data relevant to the ITT
	<ul style="list-style-type: none"> Boundary Marking and Protection Plan Material Use, Handling and Storage Plan <p>In addition, the Contractor shall detail how this Plans will be implemented. This will include how it will be introduced into conditions of employment/engagement, what training will be provided, how it will be monitored and how the Contractor proposes to deal with any breaches.</p>
ITT 18.2	The Authority for specifying rates of exchange shall be the Central Bank of Eswatini.
ITT 18.3	Foreign currency requirements <i>shall not</i> be payable in different foreign currencies
ITT 19.1	Tenders must be valid until 17 th October 2025.
ITT 20.1	A Tender Security <i>shall</i> be required.
ITT 20.2	Where a Tender Security is required, the amount and currency of Tender Security shall be E30,000.00 (Thirty Thousand Emalangeni)
ITT 20.3	The Tender Security shall be valid until 14 th November 2025.
ITT 22.1	In addition to the original of the Tender, the number of copies required is: <i>Three copies and one (1) original.</i>
ITT 23.1	<p>For Tender submission purposes only, the Procuring Entity's address is:</p> <p>Attention: Chairman of the Tender Board</p> <p>Physical Address: Eswatini Water and Agricultural Development Enterprise (EWADE)</p> <p>EWADE LUSIP Damsite Office</p> <p>Telephone: 2411 8600</p>
ITT 24.1	<p>The deadline for Tender submission is:</p> <p>Date: 18th July 2025</p> <p>Time (SAST): 1000hrs</p>
ITT 27.1	<p>The Tender opening shall take place at:</p> <p>Physical Address:</p> <p>Eswatini Water and Agricultural Development Enterprise (EWADE)</p> <p>EWADE LUSIP Damsite Office</p> <p>Date: 18th July 2025</p>

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Part 1: Section 2 Tender Data Sheet

Instructions to Contractors Reference	Data relevant to the ITT
	Time (SAST): 1015hrs
ITT 38.1	A margin of preference <i>shall not</i> apply. If a margin of preference applies, the application methodology shall be as stated in Section 3 Evaluation Methodology and Criteria.
ITT 38.2	(a) The margin of preference for contractors in Group A shall be: <i>Not Applicable</i> (b) The margin of preference for contractor in Group B shall be: <i>[Not Applicable]</i>
ITT 45.1	The successful Contractor shall be required to submit an Environmental, Social, Health and Safety (ESHS) Performance Security. <i>Not Applicable</i>
ITT 46.1	<p>The procedures for making a Procurement-related Complaint are detailed in the ESPPRA website https://esppra.co.sz</p> <p>If a Contractor wishes to make a procurement-related complaint, the Contractor shall submit its complaint following these procedures, in writing (by the quickest means available, that is by email), to:</p> <p>Title/position: <i>The CEO</i></p> <p>Procuring Entity: Eswatini Water and Agricultural Development Enterprise (EWADE)</p> <p>Email address: ewade@ewade.co.sz</p> <p>In summary, a procurement-related complaint may challenge any of the following:</p> <ol style="list-style-type: none"> 1. the terms of the Tendering Documents; and 2. the Procuring Entity's decision to award the contract.

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Section 3: Evaluation Methodology and Criteria

Procurement Reference Number: EWADE/0742

A. Evaluation Methodology

1. Methodology Used

The evaluation methodology to be used for the evaluation of Tenders received shall be the Technical Compliance Selection (TCS) methodology.

2. Summary of Methodology

2.1 The evaluation shall be conducted in four sequential stages –

- (a) A Preliminary Examination to determine the eligibility of Contractors and the administrative compliance of Tenders received;
- (b) A Technical Evaluation to determine the technical responsiveness of the eligible and compliant Tenders;
- (c) A Financial Comparison to compare costs of the eligible, compliant, responsive Tenders received and determine the best evaluated Tender; and
- (d) Post qualification to confirm whether the best evaluated Contractor has the capacity and resources to effectively execute the procurement.

2.2 Failure of a Tender at any stage of the evaluation shall prevent further consideration at the next stage of evaluation. Substantial responsiveness shall be considered a pass at the Technical Evaluation stage.

B. Preliminary Examination Criteria

3. Eligibility Criteria

3.1 The eligibility requirements shall be determined in accordance with ITT Clause 4; and

3.2 The documentation required to provide evidence of eligibility shall be:-

	Eligibility Requirement	Documentary Evidence to be Provided by the Contractor
(a)	The Contractor has legal capacity to enter into the contract	<ol style="list-style-type: none">(i) Declaration of Eligibility of Contractor(ii) Proof of Authority of Signatory(iii) E 30,000.00 Tender Bond(iv) Certificate of Attendance at Pre-Bid Meeting(v) Certificate of Attendance at Clarification Meeting(vi) Certified copy of valid certificate with the CIC under Category B3 Only
(b)	The Contractor is not insolvent, in receivership, bankrupt or	A written declaration signed by the authorised representative of the Contractor

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Part 1: Section 3 Evaluation Methodology and Criteria

	being wound up, its affairs are not being administered by a court or a judicial officer, its business activities have not been suspended, and it is not the subject of legal proceedings for any of the foregoing	Or Any other evidence
(c)	The Contractor has fulfilled its obligations to pay taxes	Tax Compliance Certificate issued by Tax Regulator
(d)	The Contractor has fulfilled its obligations to social security contributions	Eswatini National Provident Fund Compliance Certificate <i>[for Swati firms only]</i> Social Security Compliance Certificate or equivalent <i>[for foreign firms]</i>
(e)	The Contractor adheres to basic labour legislation	Labour Compliance Certificate <i>[for Swati firms]</i>
(f)	The Contractor does not have a conflict of interest in relation to the procurement requirement	A written declaration signed by the authorised representative of the Contractor
(g)	The Contractor, or any of its directors or officers, have not been convicted of any criminal offence relating to professional conduct or the making of false statements or misrepresentations as to its qualifications to enter into a procurement contract within a period of five years preceding the commencement of procurement proceedings	A written declaration signed by the authorised representative of the Contractor A Certificate or Letter of Good Conduct Issued by a Competent Authority in the Contractor's Country <i>[for foreign firms]</i> Police clearance or Affidavit <i>[the document(s) above should relate to the professional and criminal conduct of the contractor]</i>
(f)	The Contractor is not subject to suspension in accordance with section 55 [of the Public Procurement Act, 2011] ¹ , and none of its directors or officers have been involved in a Contractor or supplier currently subject to suspension	A written declaration signed by the authorised representative of the Contractor

3.3 For Joint Venture or Consortiums or Associations;

- a) A registered Power of Attorney from each member or partner if drawn and signed in Eswatini; or a notarised Power of Attorney if drawn and signed outside Eswatini,

¹ Refers to suspension by the Eswatini Public Procurement Regulatory Agency

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Part 1: Section 3 Evaluation Methodology and Criteria

nominating a representative to conduct all business on its behalf during the Tender preparation, Tendering process and contract execution in case of award of the contract.

- b) The documentation in Section 3.2 for each member or partner and a copy of the Joint Venture / Consortium / Association Agreement which is legally binding on all partners or members stating that:
 - (i) The partners or members shall jointly submit a Tender;
 - (ii) One of the parties will be nominated as lead member or partner to act for and on behalf of all members or partners;
 - (iii) The authorized representative of the lead member or partner who was granted power of attorney shall sign the Tender;
 - (iv) In the event that the Tender is successful, the contract shall be executed in the name of the Joint Venture (JV), Consortium or Association and each member or partner shall sign the contract agreement; and
 - (v) All partners shall be jointly and severally liable for the implementation of the contract in accordance with the contract terms.

4. Administrative Compliance Criteria

The evaluation of Administrative Compliance criteria shall be conducted in accordance with ITT Clause 34.3.

C. Technical Evaluation Criteria

5. Assessment of Responsiveness

5.1 The assessment of responsiveness will consider the following criteria:

- (a) Acceptance of the conditions of the proposed Contract;
- (b) Acceptable completion schedule;
- (c) Acceptability of the proposed program (work method and schedule), including relevant drawings and charts.

6. Mobilization

Evaluation of the responsiveness of the Tender to the technical requirements will include an assessment of the Contractor's capacity to mobilize key equipment and personnel for the contract consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section 6 (Statement of Requirements).

6.1 Personnel and Equipment

A. Personnel

The Contractor must demonstrate that it will have the personnel for the key positions that meet the following requirements:

No.	Position	Total Work Experience (years)	Minimum Experience in Similar Works (years)	Verdict
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Part 1: Section 3 Evaluation Methodology and Criteria

2.5.1	Contract Manager	10	7	<ul style="list-style-type: none"> • <7 yrs. min exp: Fail • >=7 yrs min exp.: Pass Experience must be in Contract Management
2.5.2	Construction Manager/Site Agent	10	7	<ul style="list-style-type: none"> • <7 yrs. min exp: Fail • >=7 yrs min exp.: Pass Experience must be in building projects of similar scope and value.
2.5.3	General Forman	10	7	<ul style="list-style-type: none"> • <7 yrs. min exp: Fail • >=7 yrs min exp.: Pass Experience must be in building projects of similar scope and value.
2.5.4	Concrete Supervisor	10	5	Verdict will be allocated to each nominated skilled resource identified as follows: - <ul style="list-style-type: none"> • <5 yrs. Min exp: Fail • >=5 yrs min exp.: Pass
2.5.5	Survey Technician	10	5	
2.5.6	Electrician able to issue electrical compliance certificates	10	5	
2.5.7	Quality Controller	10	5	
2.5.8	Health and Safety/Environmental Officer	10	5	
2.5.9	6 x Builders/Bricklayers	10	5	<ul style="list-style-type: none"> • No. Skilled and Grade 1 Building Certificate: Fail • Skilled and Grade 1 Building Certificate.: Pass
	PERSONNEL			

The Contractor shall provide details of the proposed personnel and their experience records in the relevant Forms included in Section IV, Tendering Forms.

B. Equipment

The Contractor must demonstrate that it shall have access to the key equipment listed hereafter (either by ownership, lease, hire): Attach documentary evidence of ownership, lease, hire such as registration books, agreements or memoranda or purchase order).

No.	Equipment Type and Characteristics	Min. Number Required	Verdit
2.6.1	Bulldozer (35-ton, 220 kW minimum)	1	Does not Meet Requirement: Fail Meets Reqt.: Pass
2.6.2	Backactor TLB (50 kW minimum)/ Excavator (32 ton)	2	Does not Meet Requirement: Fail Meets Reqt.: Pass
2.6.3	Tipper Dump trucks (6 cubic metre minimum)	2	Does not Meet Requirement: Fail Meets Reqt.: Pass
2.6.4	Lowbed Transporter and Trailer	1	Does not Meet Requirement: Fail Meets Reqt.: Pass
2.6.5	Servicing vehicle with mobile diesel bowser	1	Does not Meet Requirement: Fail Meets Reqt.: Pass
2.6.6	LDV (Light Delivery Vehicle) 4x4, 130kW, 2-door	2	Does not Meet Requirement: Fail Meets Reqt.: Pass
2.6.7	Concrete Mixers	3	Does not Meet Requirement: Fail Meets Reqt.: Pass



Part 1: Section 3 Evaluation Methodology and Criteria

	TOTAL CONTRACTOR'S EQUIPMENT		
--	------------------------------	--	--

The Contractor shall provide further details of proposed items of equipment using the relevant Form in Section 4.

6.2 Qualification

Factor	Historical Contract Non-Performance					Documentation Required	Verdict	
Sub-Factor	Requirement	Criteria						
		Single Entity	Contractor					
			Joint Venture, Consortium or Association					
			All partners combined	Each partner	At least one partner			
6.2.1 History of non-performing contracts	Non-performance of a contract did not occur within the last _____ years prior to the deadline for application submission, based on all information on fully settled disputes or litigation.	Must meet requirement by itself or as partner to past or existing JV	N / A	Must meet requirement by itself or as partner to past or existing JV	N / A	Form 5	Does not Meet Requirement:	Fail Pass
6.2.2 Pending Litigation	All pending litigation shall in total not represent more than _____ percent (____%) of the Contractor’s net worth and shall be treated as resolved against the Contractor.	Must meet requirement by itself or as partner to past or existing JV	N / A	Must meet requirement by itself or as partner to past or existing JV	N / A	Form 5A	Does not Meet Requirement:	Fail Pass
6.2.3 Declaration: Environmental, Social, Health, and Safety (ESHS) past performance	Declare any civil work contracts that have been suspended or terminated and/or performance security called by an employer for reasons related to the non-compliance of any environmental, or social, or health or safety requirements or safeguard in the past five years ² .	Must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration.	N/A	Each must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration.	N/A	Form 5B ESHS Performance Declaration	Does not Meet Requirement:	Fail Pass
HISTORICAL CONTRACT NON-PERFORMANCE								
Tenderers obtained a FAIL in each of the items mentioned above do not qualify								

² The Employer may use this information to seek further information or clarifications in carrying out its due diligence.

Factor	Financial Situation and Performance								
Sub-Factor	Criteria					Documentati on Required	Verdict		
	Requirement	Contractor							
		Single Entity	Joint Venture, Consortium or Association						
			All partners combined	Each partner	At least one partner				
6.2.4 Historical Financial Performance	Submission of audited accounts or other financial statements acceptable to the Employer, for the last 12 months to demonstrate the current soundness of the Contractors financial position and its prospective long-term profitability.	Must meet requirement	N / A	Must meet requirement	N / A	Financial Statements	Does not Meet Requirement:	Meet Fail Pass	
6.2.5 Average Annual Turnover	Minimum average turnover of 5 million in the past two (2) years, calculated from total certified payments received for contracts in progress or completed, within the last twelve (24) months.	Must meet requirement	Must meet requirement	Must meet _____ percent (50%) of the requirement	Must meet _____ percent (100%) of the requirement	Form 7 and financial statements	Does not Meet Requirement:	Meet Fail Pass	
6.2.6 Financial Resources	The Contractor must demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet: (i) the following cash-flow requirement: <u>E 2 000,000.00</u> and (ii) the overall cash flow requirements for this contract and its concurrent commitments.	Must meet requirement	Must meet requirement	Must meet _____ percent (50%) of the requirement	Must meet _____ percent (100%) of the requirement	Form 8 and line of credit	Does not Meet Requirement:	Meet Fail Pass	
FINANCIAL SITUATION AND PERFORMANCE									
Tenderers obtained a FAIL in each of the items mentioned above do not qualify									

Factor	Experience						
Sub-Factor	Criteria					Documentation Required	Verdict
	Requirement	Contractor					
		Single Entity	Joint Venture, Consortium or Association				
	All partners combined		Each partner	At least one partner			
6.2.7 General Experience	Experience under contracts in the role of contractor, subcontractor, or management contractor for at least the last <u>Seven (7)</u> years prior to the Tender submission deadline, each with a value of at least SZL5 million, and with contract activity in at least <u>Five (5)</u> months in each year.	Must meet requirement	N / A	Must meet requirement	N / A	Form 9 and Certificates of Completion or Substantial Completion	<u>No. of Contracts</u> <ul style="list-style-type: none">• <2 No. contracts of min value SZL5 mil. Fail• >=2 No. contracts of min value SZL5 mil. Pass
6.2.8 Specific Experience	(a) Participation as contractor, management contractor, or subcontractor, in at least <u>Three (3)</u> contracts within the last <u>Seven (7)</u> years, each with a value of at least <u>E5 000.000.00</u> , that have been successfully and substantially completed (at least 70 percent complete) and that are similar to the proposed Works. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in Section 6, Statement of Requirements.	Must meet requirement	Must meet requirements for all characteristics	N / A	Must meet requirement for one characteristic	Form 10 and Certificates of Completion or Substantial Completion	<u>No. of Contracts</u> <ul style="list-style-type: none">• <3 No. contracts of min value SZL5 mil. Fail• >=3 No. contracts of min value SZL5 mil. Pass

Factor	Experience						
Sub-Factor	Criteria					Documentation Required	Verdict
	Requirement	Contractor					
		Single Entity	Joint Venture, Consortium or Association				
			All partners combined	Each partner	At least one partner		
6.2.9 Specific Experience	For the above or other contracts executed during the period stipulated in 6.2.8 above, a minimum experience in the following key activities: 1. Land Clearing and Platform Preparation (min 1ha and above) 2. Supply and Installation of 0.5mm IBR roof (min 50m ²) 3. Supply and Installation of Harvey Tiles Roof (minimum 50m ²) 4. Construction of 3 Bedroom House	Must meet requirements	Must meet requirements	N / A	Must meet requirements	Form 10 and copies of the contracts providing the scope of the works	(1) <u>Land Clearing and Platform Preparation</u> • <2 No. contracts: Fail • >= 2 contracts: Pass (2) <u>0.5mm IBR roof</u> • <2 No. contracts: Fail • >= 2 contracts: Pass (3) <u>Harvey Tiles</u> • <2 No. contracts: Fail • >= 2 contracts: Pass (4) <u>Three Bedroom Gouse</u> • <2 No. contracts: Fail • >= 2 contracts: Pass

6.3 Works Programme

A work plan (works programme) with brief descriptions of the main tasks, showing the sequence and proposed timetable for implementing the tasks. The tenderer must also submit a comprehensive method statement, with drawings if necessary, showing the methods by which it proposes to carry out the works. In particular, the tenderer must indicate the critical milestone bar chart showing all activities falling within the critical path. The work plan must indicate a maximum Five (5) Consecutive Calendar Months.

Unit	Description	Verdict
1	Work plan indicating the maximum duration	PASS/FAIL
1	Critical Milestone Bar Chart detailing activities on critical path	PASS/FAIL
1	Method Statement	PASS/FAIL

- A critical milestone bar chart showing times and duties allocated for employees for this contract.

Contractors shall also provide information and documentation of: -

- (a) Authority to seek references from the Contractor's bankers; and
- (b) Foreign firms shall be required to submit proposals for subcontracting components of the works to local (Swati) firms amounting to at least 30% of the Contract Price.

D. Financial Comparison Criteria

7. Costs to be included in the Tender Price

7.1 The financial comparison shall be conducted in accordance with ITT Clause 37.

The following costs shall be included in the Tender price:

- (a) the total price given in the Activity Schedule/Bills of Quantities.
- (b) day works, if any.

7.2 The following costs shall be excluded from the Tender price:

- (a) provisional sums.
- (b) the provision for contingencies in the Activity Schedule/ Bills of Quantities.

8. Margin of Preference

8.1 If the TDS specifies a margin of preference is applicable, for the purpose of Tender comparison, the following procedures will apply:

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- 8.2 The PE will first review the Tenders that have reached financial comparison to confirm the appropriateness of the classification, and to identify the Tender group classification of each based upon Contractors' declarations in the Tender Submission Sheet and supporting evidence on ownership/shareholding of the Contractors in accordance with ITT 38.2.
- 8.3 All evaluated Tenders in each group will then be compared to determine the lowest evaluated Tender of each group. The Tender prices for Contractors in Group A and Group B will be increased by the respective percentages of preference as specified in the Tender Data Sheet. *[For Example: (Tender Price of Contractor Z)- (Tender Price of Contractor Z x percentage specified in the Tender Data Sheet ITT 35.2)].* After application of the preferences, all the Tenders shall be compared, with the lowest-evaluated Tender determined from this comparison selected for the award.

9. Determination of Best Evaluated Tender or Tenders

- 9.1 Post qualification evaluation will be carried out on the lowest evaluated Contractor as specified below: -
- Legal Requirements – Due diligence shall be done to verify ownership of the company and its registration with appropriate body in the country of principal business.
- (i) Technical Requirements–Due diligence shall be done to:
- (a) Verify and validate the Contractor's performance on previous indicated private and public contracts in the Contractor's submission.
 - (b) Verify and validate current commitments and litigation record of the Contractor.
- (ii) Financial Requirements - Due diligence shall be done to verify and ascertain the Contractor's financial contracting capacity and bank commitment to provide a credit line to the Contractor.
- 9.2 A Contractor not meeting any of the above criteria shall be rejected.
- 9.3 The Tender with the lowest evaluated price, from among those which are eligible, compliant and substantially responsive and have passed the post-qualification shall be the best evaluated Tender. If this Tendering Document includes more than one lot, the best evaluated Tender shall be determined separately for each lot.
- 9.4 Notwithstanding paragraph 9.1, if the Tendering Document allows Contractors to quote different prices for single lots and for the award to a single Contractor of multiple lots, the Procuring Entity shall conduct a further financial comparison to apply any conditional discounts. The Tender or Tenders offering the lowest priced combination of all the lots shall be the best evaluated Tender or Tenders.

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Additional Evaluation Criteria (If applicable)

In addition to the evaluation criteria listed in Section 3, the following criteria may apply for the Procuring Entities:

10 Multiple Contracts

If permitted under additional criteria, will be evaluated as follows:

10.1 Award Criteria for Multiple Contracts:

Lots

10.1.1 Contractors have the option to Tender for any one or more lots. Tenders will be evaluated lot-wise, taking into account discounts offered, if any, after considering all possible combinations of lots, the contract(s) will be awarded to the Contractor or Contractors offering the lowest evaluated cost to the Procuring Entity for combined lots, subject to the selected Contractor(s) meeting the required qualification criteria for lot or combination of lots as the case may be.

10.1.2 No Contractor will be awarded more than one Contract/Lot.

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Section 4: Tendering Forms

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Tender Submission Sheet

Date: _____

Procurement Reference No _____

To: **ESWATINI WATER & AGRICULTURAL DEVELOPMENT ENTERPRISE LTD**

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Tendering Document, including Addenda No.:.....
- (b) We offer to execute in conformity with the Tendering Document and in accordance with the completion schedule specified in the Statement of Requirements and the terms and conditions of the Tendering Document, the following works the **Construction of Chalaza Resettled Homesteads Under the Mkhondvo-Ngwavuma Water Augmentation Project (MNWAP)**
- (c) The total price of our Tender, excluding any discounts offered in item (d) below, is _____
- (d) The discounts offered and the methodologies for their application are:
Unconditional discounts. If our Tender is accepted, the following discounts shall apply.

Methodology of application of the unconditional discounts. The unconditional discounts shall be applied using the following method:

_____ Cross discounts. If our Tenders for more than one lot are accepted, the following discounts shall apply. _____ (eg amount/percentage) and _____

Methodology of application of the cross discounts. The cross discounts shall be applied using the following method: _____

_____ (e) Our Tender shall be valid until the date specified in ITT Sub-Clause 19.1 and it shall remain binding upon us and may be accepted at any time before that date;

- (f) If our Tender is accepted, we commit to obtain a Performance Security in accordance with the Tendering Document in the amount of *10% of the total value of the contract price* for the due performance of the Contract.
- (g) We, including any subcontractors for any part of the contract resulting from this procurement process, are eligible to participate in public procurement in accordance with ITT Clause 4.1;
- (h) We, including any subcontractors for any part of the contract, have nationals from eligible countries

- (i) We are eligible for a Margin of Preference in accordance with ITT Clause 38;

[or]

We are not eligible for a Margin of Preference in accordance with ITT Clause 38;

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Part 1: Section 4 Tendering Forms

- (j) We have signed and undertake to abide by the Code of Ethical Conduct for Contractors and Providers during the procurement process and the execution of any resulting contract;
- (k) We accept the appointment of *[name proposed in GCC 35.1]* as the Adjudicator.
[or]
We do not accept the appointment of *[name proposed in GCC 35.1]* as the Adjudicator, and propose instead that *[name]* be appointed as Adjudicator, whose daily fees and biographical data are attached.
- (l) We are not participating, as Contractors, in more than one Tender in this Tendering process, other than alternative Tenders in accordance with the Tendering Document;
- (m) We, including any subcontractors, do not have any conflict of interest as stated in ITT 4.4 and are not associated, nor have been associated in the past, directly or indirectly, with the consultant or any other entity that has prepared the design, specifications, and other documents for the Project or that is being proposed as Project Manager for the Contract;
- (n) We, including any subcontractors for any part of the contract, have not been suspended by the Eswatini Public Procurement Regulatory Agency from participating in public procurement;
- (o) We understand that you are not bound to accept the lowest Tender or any other Tender that you may receive.

Signed: _____

Name: _____

In the capacity of _____ Duly authorised to sign
the Tender for and on behalf of: _____

Dated on _____ day of _____, _____

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Code of Ethical Conduct in Business for Contractors

1. Ethical Principles

Contractors and providers shall at all times-

- (a) Maintain integrity and independence in their professional judgement and conduct;
- (b) Comply with both the letter and the spirit of-
 - (i) The laws of Eswatini; and
 - (ii) Any executed contract.
- (c) Avoid associations with businesses and organisations which are in conflict with this code.

2. Standards

Contractors and providers shall-

- (a) Strive to provide works, services and goods of high quality and accept full responsibility for all works, services or goods provided;
- (b) Comply with the professional standards of their industry or of any professional body of which they are members.

3. Conflict of Interest

Contractors and providers shall not accept contracts which would constitute a conflict of interest with any prior or current contract with any Procuring Entity. Contractors and providers shall disclose to all concerned parties those conflicts of interest that cannot reasonably be avoided or escaped.

4. Confidentiality and Accuracy of Information

- (a) Information given by Contractors and service providers in the course of procurement processes, or the performance of contracts shall be true, fair and not designed to mislead.
- (b) Service providers shall respect the confidentiality of information received in the course of performance of a contract and shall not use such information for personal gain.

5. Gifts and Hospitality

Contractors and providers shall not offer gifts or hospitality directly or indirectly, to staff of a Procuring Entity that might be viewed by others as having an influence on a procurement decision of the Entity.

6. Inducements

- (a) Contractors and service providers shall not offer or give anything of value to influence the action of a public official in the procurement process or in contract execution.
- (b) Contractors and service providers shall not ask a public official to do anything which is inconsistent with the Act, Regulations, Guidelines or the Code of Ethical Conduct in Business.

7. Fraudulent Practices

Contractors and service providers shall not-

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Part 1: Section 4 Tendering Forms

- (a) Collude with other businesses and organisations with the intention of depriving a Procuring Entity of the benefits of free and competitive competition;
- (b) Enter into business arrangements that might prevent the effective operation of fair competition;
- (c) Engage in deceptive financial practices, such as bribery, double billing or other improper financial practices;
- (d) Misrepresent facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring Entity; or utter false documents;
- (e) Unlawfully obtain information relating to a procurement process in order to influence the process or execution of a contract to the detriment of the PE;
- (f) Withholding information from the PE during contract execution to the detriment of the PE.

I agree to comply with the above code of ethical conduct in business.

AUTHORISED SIGNATORY

NAME OF CONTRACTOR³

³ If the bidder is a JV, Consortium or Association, state the name of the JV, Consortium or Association

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Part 1: Section 4 Tendering Forms

Form of Tender Security (Bank Guarantee)

Date: _____

Procurement Reference No.: _____

To: _____

Whereas _____

_____ (hereinafter called “the Contractor”) has submitted its Tender dated _____ for Procurement Reference number _____ for the construction of _____

KNOW ALL PEOPLE by these presents that We of _____

/_____ having our registered office at _____ (hereinafter called “the Guarantor”) are

bound unto _____ (hereinafter called “the Procuring Entity”) in the sum of _____

_____ for which the Guarantor binds itself, its successors or assignees to make payment to the Procuring Entity.

Sealed with the Common Seal of the said Guarantor this day of [insert month], [insert year].

THE CONDITIONS of this obligation are:

- (1) If the Contractor withdraws its Tender during the period of Tender validity specified in the Tender submission sheet or as provided in ITT Sub-Clause 19.3 or refuses to accept the correction of its Tender price pursuant to ITT Clause 32.5; or
- (2) If the Contractor having been notified of the acceptance of its Tender by the Procuring Entity during the period of Tender validity fails or refuses to:
 - (a) Sign the Contract in accordance with the ITT Clause 43.2, if required; or
 - (b) Furnish the Performance Security, in accordance with the ITT Clause 45.2 and, if required, the Environmental, Social, Health and Safety (ESHS) Performance Security, in accordance with the Instructions to Contractors (“ITT”).

We undertake to pay to the Procuring Entity up to the above amount upon receipt of its first written demand, without the Procuring Entity’s having to substantiate its demand, provided that in its demand the Procuring Entity states that the amount claimed by it is due to it, owing to the occurrence of one or more of the above conditions, specifying the occurred conditions.

This security shall remain in force up to and including _____ [insert date, (day, month and year) in accordance with ITT Clause 19.1 or 19.3] and any demand in respect thereof should be received by the Guarantor no later than the above date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758, except that sub – article 20 (a) is hereby excluded.

Signed: _____

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Part 1: Section 4 Tendering Forms

Name: _____

In the capacity of _____ Duly authorised to sign
the Tender Security for and on behalf of _____ Dated on
_____ day of _____ (month), _____ (year) *[insert date of signing]*

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Part 1: Section 4 Tendering Forms

[Use Contractor's Letterhead]

[Name of Contractor]

[Physical Address of Contractor]

Form of Tender-Securing Declaration

Date: _____

Subject of procurement and Ref number.: _____

To: _____

I/We*, the undersigned, declare as follows:

I/We* understand that, according to the conditions of the Tendering Document, Tenders must be supported by a Tender Securing Declaration valid until the date indicated in the Tender Data Sheet (TDS).

I/We* accept that I/we* may be suspended by the Agency from being eligible for Tendering in any public procurement or disposal process if we are in breach of our obligations under the conditions in the Tendering document, because we:

- (a) Have withdrawn our Tender during the period of Tender validity specified by us in the Tender Submission Sheet or as provided in ITT Sub-Clause 19.3 or have refused to accept the correction of our Tender price pursuant to ITT Clause 32.5; or
- (b) Having been notified of the acceptance of our Tender by the PE during the period of Tender validity, (i) fail or refuse to sign the Contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with ITT 45.2 or and, if required, the Environmental and Social (ES) performance securing declaration.

I/We* understand this Tender Securing Declaration shall cease to be valid if I am/we are* not the successful Contractor, upon the earlier of:

- (i) The expiry of the notice of best evaluated Contractor without any pending administrative review application; or
- (ii) Twenty-four (28) days after the expiration of the validity of my/our* Tender.

Signed:

Name: _____

Duly authorized to sign the Tender for and on behalf of:

Dated on _____ day of _____ (month), _____ (year) [insert date of signing]
Corporate Seal (where appropriate)

[Note: In case of a Joint Venture, Consortium or Association the Tender Securing Declaration must be in the name of all partners that submit the Tender and signed by the representative duly authorized by the partners.]

***Please delete as appropriate**

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Technical Documentation

1. Site Organization
2. Method Statement
3. Mobilization Schedule
4. Construction Schedule
5. Environmental and Social Management Plan
6. Code of Conduct for Contractor's Personnel
7. *[Insert any other relevant documentation]*

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Site Organization

Provide a detailed description/illustration of the proposed site organization in terms of personnel, offices, materials storage, workshops etc.

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Method Statement

Provide a detailed description of the proposed method statement to execute the works

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Provide a detailed description/illustration of the proposed mobilization schedule for materials, equipment, labour etc. including sources.



Construction Schedule

Provide a detailed description/illustration of the proposed construction schedule.

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Environmental and Social Management Plan

- a) *The Contractor shall submit comprehensive and concise Environment Social Health and Safety Management Plan as required by ITT 15.1 (i) of the Tender Data Sheet. This plan shall describe in detail the actions and management processes etc. that will be implemented by the Contractor, and its subcontractors.*
- b) *In developing these strategies and plans, the Contractor shall have regard to the ESHS provisions of the contract including those as may be more fully described in the Statement of Requirements in Section 6.*

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Part 1: Section 4 Tendering Forms

Code of Conduct for Contractor's Personnel Form

Note to the Contractor:

The minimum content of the Code of Conduct Form as set out by the Employer shall not be substantially modified. However, the Contractor may add requirements as appropriate, including to take into account Contract-specific issues/risks.

The Contractor shall initial and submit the Code of Conduct Form as part of its bid.

CODE OF CONDUCT FOR CONTRACTOR'S PERSONNEL

We....., [enter name of Contractor], undertake that once we are awarded the contract for[enter description of the works] to be carried out at [enter the site and other locations where the works will be carried out] shall implement measures to address environmental and social risks related to the works, including the risks of sexual exploitation and assault and gender-based violence.

This Code of Conduct is part of our measures to deal with environmental and social risks related to the works. It applies to all our staff, labourers and other employees at the Works Site or other places where the works would be carried out. It also applies to the personnel of each subcontractor and any other personnel assisting us in the execution of the Works. All such persons are referred to as “**Contractor's Personnel**” and are subject to this Code of Conduct.

This Code of Conduct identifies the behaviour that we require from all Contractor's Personnel.

Our workplace is an environment where unsafe, offensive, abusive or violent behaviour will not be tolerated and where all persons should feel comfortable raising issues or concerns without fear of retaliation.

REQUIRED CONDUCT

Contractor's Personnel shall:

1. Carry out his/her duties competently and diligently;
2. Comply with this Code of Conduct and all applicable laws, regulations and other requirements, including requirements to protect the health, safety and well-being of other Contractor's Personnel and any other person;
3. Maintain a safe working environment including by:
 - a. Ensuring that workplaces, machinery, equipment and processes under each person's control are safe and without risk to health;
 - b. Wearing required personal protective equipment;
 - c. Using appropriate measures relating to chemical, physical and biological substances and agents; and
 - d. Following applicable emergency operating procedures.
4. Report work situations that he/she believes are not safe or healthy and remove himself/herself from a work situation which he/she reasonably believes presents an imminent and serious danger to his/her life or health;

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Part 1: Section 4 Tendering Forms

5. Treat other people with respect, and not discriminate against specific groups such as women, people with disabilities, migrant workers or children;
6. Not engage in any form of sexual harassment including unwelcome sexual advances, requests for sexual favours, and other unwanted verbal or physical conduct of a sexual nature with other Contractor's or Employer's Personnel;
7. Not engage in Sexual Exploitation, which means any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another.
8. Not engage in Sexual Assault, which means sexual activity with another person who does not consent. It is a violation of bodily integrity and sexual autonomy and is broader than narrower conceptions of "rape", especially because (a) it may be committed by other means than force or violence, and (b) it does not necessarily entail penetration.
9. Not engage in any form of sexual activity with individuals under the age of 18, except in case of pre-existing marriage;
10. Complete relevant training courses that will be provided related to the environmental and social aspects of the contract, including on health and safety matters, and Sexual Exploitation and Assault (SEA);
11. Report violations of this Code of Conduct; and
12. Not retaliate against any person who reports violations of this Code of Conduct, whether to us or the Employer, or who makes use of the [Project Grievance [Redress] Mechanism].

RAISING CONCERNS

If any person observes behaviour that he/she believes may represent a violation of this Code of Conduct, or that otherwise concerns him/her, he/she should raise the issue promptly. This can be done in either of the following ways:

1. Contact _____ in writing at this address
.....[] or by telephone at [.....] or in person at
[.....]; or
2. Call [.....] to reach the Contractor's hotline (*if any*) and leave a message.

The person's identity will be kept confidential, unless reporting of allegations is mandated by the law. Anonymous complaints or allegations may also be submitted and will be given all due and appropriate consideration. We take seriously all reports of possible misconduct and will investigate and take appropriate action. We will provide warm referrals to service providers that may help support the person who experienced the alleged incident, as appropriate.

There will be no retaliation against any person who raises a concern in good faith about any behaviour prohibited by this Code of Conduct. Such retaliation would be a violation of this Code of Conduct.

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Part 1: Section 4 Tendering Forms

CONSEQUENCES OF VIOLATING THE CODE OF CONDUCT

Any violation of this Code of Conduct by Contractor's Personnel may result in serious consequences, up to and including termination and possible referral to legal authorities.

FOR CONTRACTOR'S PERSONNEL:

I have received a copy of this Code of Conduct written in a language that I comprehend. I understand that if I have any questions about this Code of Conduct, I can contact *[enter name of Contractor's contact person with relevant experience in handling gender-based violence]* requesting an explanation.

Name of Contractor's Personnel: [insert name]

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Contractor:

Signature: _____

Date: (day month year): _____

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Part 1: Section 4 Tendering Forms

Forms for Key Personnel

Form – 1: Proposed Personnel

Contractors should provide the names of suitably qualified personnel to meet the specified requirements for each of the positions listed in Section 3: Evaluation Methodology and Criteria. The data on their experience should be supplied using the Form below for each candidate.

1.	Title of position
	Name
	Duration of commitment for this position
2.	Title of position
	Name
	Duration of commitment for this position
3.	Title of position
	Name
	Duration of commitment for this position
4.	Title of position:
	Name
	Duration of commitment for this position
5.	Title of position: Environmental Officer
	Name
	Duration of commitment for this position
6.	Title of position: Social Development Officer
	Name
	Duration of commitment for this position
etc.	Title of position
	Name
	Duration of commitment for this position

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Part 1: Section 4 Tendering Forms

Form – 2: CV of Proposed Personnel

The Contractor shall provide all the information requested below.

Position	
Personnel Information	Name
	Date of birth
	Professional qualifications
Present Employment	Academic qualifications
	Name of Employer
	Address of Employer
Present Employment	Telephone
	Contact (manager / personnel officer)
	Fax
Present Employment	E-mail
	Job title
Present Employment	Years with present Employer

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	To	Project	Role	Duration in Involvement	Relevance Experience
[Date, Month and Year]	[Date, Month and Year]	[main project details]	[role and responsibilities on the project]	[time in role i.e. Months and Years]	[describe the experience relevant to this position]

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Part 1: Section 4 Tendering Forms

Declaration

I, the undersigned _____ certify that to the best of my knowledge and belief, the information in reference to my data contained in the Forms for Key Personnel correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Tender:

Commitment	Details
Commitment to duration of contract:	

I understand that any misrepresentation or omission in this Form may:

1. Be taken into consideration during Tender evaluation;
2. Result in my disqualification from participating in the procurement process.

Name of Key Personnel: *[insert name]*

Signature: _____

Date: (day, month, year): _____

Countersignature of authorized representative of the Contractor:

Signature: _____

Date: (day month year): _____

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Part 1: Section 4 Tendering Forms

Forms for Equipment

The Contractor shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section 3: Evaluation Methodology and Criteria. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Contractor. The Contractor shall provide all the information requested below, to the extent possible:

FORM 3

Type of Equipment		
Equipment Information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
Current Status	Current location	
	Details of current commitments	
Source	<p>Indicate source of the equipment</p> <p><input type="checkbox"/> Owned</p> <p><input type="checkbox"/> Rented</p> <p><input type="checkbox"/> Leased</p> <p><input type="checkbox"/> Specially manufactured</p> <p>[Attach evidence of ownership, lease or hire in the form of registration books, agreements or memoranda or purchaser order]</p> <p>[For Specially Manufactured Equipment, attach evidence in form of Proforma Invoices, Quotation or Sales Agreement between the Contractor and the prospective equipment manufacturer]</p>	

The following information shall be provided only for equipment not owned by the Contractor.

FORM 3A

Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project. (Attach evidence of lease or hire in the form of registration books, agreements or memoranda or purchaser order)	

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Qualification Forms

To establish its qualifications to perform the contract in accordance with Section 3: Evaluation Methodology and Criteria. The Contractor shall provide the information requested in the corresponding Information Sheets included hereunder:

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Part 1: Section 4 Tendering Forms

Form 4

Contractor Information Sheet

Date: _____

Procurement Reference Number: _____

1. Contractor's Name ¹ :
2. In case of JV / Consortium / Association, state name of each party in Form 4A
3. Contractor's Country of Registration / Incorporation ² :
4. Contractor's Year of Registration / Incorporation ³ :
5. Contractor's Address in Country of Registration / Incorporation ⁴ :
6. Contractor's Authorized Representative Information Name: Address: Telephone/Fax numbers: Email Address:
7. Attached are copies of original documents of: <input type="checkbox"/> Certificate of Incorporation or Registration of firm named in 1, above. <input type="checkbox"/> In case of JV / Consortium / Association, the JV / Consortium / Association Agreement <input type="checkbox"/> In case of government owned entity from the Procuring Entity's country, documents establishing legal and financial autonomy and compliance with the principles of commercial law.

¹In case of JV / Consortium / Association, Fill in Form 4A

²In case of JV / Consortium / Association, Fill in Form 4A

³In case of JV / Consortium / Association, Fill in Form 4A

⁴In case of JV / Consortium / Association, Fill in Form 4A

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Part 1: Section 4 Tendering Forms

Form 4 A

Party to JV / Consortium / Association Information Sheet

Date: _____

Procurement Reference Number: _____

1. Legal Name of party to JV / Consortium / Association:
2. Country of Registration of party to JV / Consortium / Association:
3. Year of Registration of party to JV / Consortium / Association:
4. Legal Address in Country of Registration for party to JV / Consortium / Association:
6. Authorized Representative Information for party to JV / Consortium / Association Name: Address: Telephone/Fax numbers: Email Address:
7. Attached are copies of original documents of: <input type="checkbox"/> Certificate of Incorporation or Registration of firm named in 1, above. <input type="checkbox"/> In case of government owned entity from the Purchaser's country, documents establishing legal and financial autonomy and compliance with the principles of commercial law.

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Part 1: Section 4 Tendering Forms

Form 5

Historical Contract Non-Performance

Contractor's Name: _____ Date: _____

JV/ Consortium / Association Partner Names: _____

Procurement Reference No.: _____

Non-Performing Contracts in accordance with the Technical Criteria			
<input type="checkbox"/> Contract non-performance did not occur during the stipulated period, in accordance with Sub-Factor 6.2.1 of Section III.			
<input type="checkbox"/> Contract non-performance during the stipulated period, in accordance with Sub-Factor 6.2.1 of Section III.			
Year	Outcome as Percent of Total Assets	Contract Identification	Total Contract Amount
_____	_____	Contract Identification: _____ Name of Employer: _____ Address of Employer: _____ Matter in dispute: _____	_____

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Part 1: Section 4 Tendering Forms

Form 5A

Pending Litigation

Pending Litigation, in accordance with Section III			
<input type="checkbox"/> No pending litigation in accordance with Sub-Factor 6.2.2 of Section III <input type="checkbox"/> Pending litigation in accordance with Sub-Factor 6.2.2 of Section III, as indicated below			
Year	Outcome as Percent of Total Assets	Contract Identification	Total Contract Amount
_____	_____	Contract Identification: Name of Employer: Address of Employer: Matter in dispute:	_____
_____	_____	Contract Identification: Name of Employer: Address of Employer: Matter in dispute:	_____
_____	_____	Contract Identification: Name of Employer: Address of Employer: Matter in dispute:	_____

Environmental, Social, Health and Safety Performance Declaration

Environmental, Social, Health, and Safety Performance Declaration in accordance with Section III, Qualification Criteria, and Requirements			
<input type="checkbox"/> No suspension or termination of contract: An employer has not suspended or terminated a contract and/or called the performance security for a contract for reasons related to Environmental, Social, Health, or Safety (ESHS) performance since the date specified in Section III, Qualification Criteria, and Requirements, Sub-Factor 6.2.3.			
<input type="checkbox"/> Declaration of suspension or termination of contract: The following contract(s) has/have been suspended or terminated and/or Performance Security called by an employer(s) for reasons related to Environmental, Social, Health, or Safety (ESHS) performance since the date specified in Section III, Qualification Criteria, and Requirements, Sub-Factor 6.2.3. Details are described below:			
Year	Suspended or terminated portion of contract	Contract Identification	Total Contract Amount (value, currency, exchange rate and Lilangeni equivalent)
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for suspension or termination: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for suspension or termination: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
...	...	<i>[list all applicable contracts]</i>	...

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Part 1: Section 4 Tendering Forms

Performance Security called by an employer(s) for reasons related to ESHS Performance		
Year	Contract Identification	Total Contract Amount (current value, currency, exchange rate and Lilangeni equivalent)
[insert year]	Contract Identification: [indicate complete contract name/ number, and any other identification] Name of Employer: [insert full name] Address of Employer: [insert street/city/country] Reason(s) for calling of performance security: [indicate main reason(s)]	[insert amount]

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Current Contract Commitments / Works in Progress

[The following table shall be filled in for the Contractor, each member of a Joint Venture / Consortium / Association]

Contractor's Name: *[insert full name]*

Date: *[insert day, month, year]*

Joint Venture / Consortium / Association Member's Name: *[insert full name]*

Proc. Reference No: *[insert Reference Number]*

/Contractors and each partner to a JV/ Consortium / Association should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued./

Name of contract	Employer, contact address/tel	Value of outstanding work	Estimated completion date	Average monthly invoicing over last six months (Lilangeni /month)
1.				
2.				
3.				
4.				
5.				
etc.				

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Part 1: Section 4 Tendering Forms

FORM 6 A

Financial Situation

Historical Financial Performance

Contractor's Name: _____ Date: _____

JV/ Consortium / Association Partner Legal Name: _____

Procurement Reference No.: _____

To be completed by the Contractor and, if JV/ Consortium / Association, by each partner

Financial information in Lilangeni equivalent	Historic information for previous _____ () years (Lilangeni equivalent)						
	Year 1	Year 2	Year 3	Year ...	Year n	Avg.	Avg. Ratio
Information from Balance Sheet							
Total Assets (TA)							
Total Liabilities (TL)							
Net Worth (NW)							
Current Assets (CA)							
Current Liabilities (CL)							
Information from Income Statement							
Total Revenue (TR)							
Profits Before Taxes (PBT)							

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☐ Attached are copies of financial statements (balance sheets, including all related notes, and income statements) for the years required above complying with the following conditions:

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Part 1: Section 4 Tendering Forms

Form 7

Average Annual Turnover

Contractor's Name: _____ Date: _____

JV/ Consortium / Association Partner Name:

Procurement Reference No.: _____

Annual turnover data (construction only)		
Year	Amount and Currency	Lilangeni equivalent
*Average Annual Construction Turnover		

*Average annual turnover calculated as total certified payments received for work in progress or completed over the number of years specified in Section III, Sub-Factor 6.2.5, divided by that same number of years.

Part 1: Section 4 Tendering Forms

Form 8

Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as indicated in Section 3: Evaluation Methodology and Criteria.

Source of financing	Amount (Lilangeni equivalent)
1.	
2.	
3.	
4.	

Part 1: Section 4 Tendering Forms

FORM 9

Experience

General Experience

Contractor's Name: _____ Date: _____

JV/ Consortium / Association Partner Name: _____

Procurement Reference No.: _____

Starting Month / Year	Ending Month / Year	Years*	Contract Identification	Role of Contractor
_____	_____	_____	Contract name: Brief Description of the Works performed by the Contractor: Name of Employer: Address:	_____
_____	_____	_____	Contract name: Brief Description of the Works performed by the Contractor: Name of Employer: Address:	_____
_____	_____	_____	Contract name: Brief Description of the Works performed by the Contractor: Name of Employer: Address:	_____
_____	_____	_____	Contract name: Brief Description of the Works performed by the Contractor: Name of Employer: Address:	_____
_____	_____	_____	Contract name: Brief Description of the Works performed by the Contractor: Name of Employer: Address:	_____
_____	_____	_____	Contract name: Brief Description of the Works performed by the Contractor: Name of Employer: Address:	_____

*List calendar year for years with contracts with at least nine (9) months activity per year starting with the earliest year

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Part 1: Section 4 Tendering Forms

Form 10

Specific Experience

Contractor's Name: _____ Date: _____

JV/ Consortium / Association Partner Name: _____

Procurement Reference No.: _____

Similar Contract Number: ____ [insert specific number] of ____ [insert total number of contracts required].	Information		
Contract Identification	_____		
Award date	_____		
Completion date	_____		
Role in Contract	<input type="checkbox"/> Contractor	<input type="checkbox"/> Management Contractor	<input type="checkbox"/> Subcontractor
Total contract amount	_____		Lilangeni ____
If partner in a JV or subcontractor, specify participation of total contract amount	_____ %	_____	Lilangeni ____
Employer's Name:	_____		
Address:	_____ _____ _____		
Telephone number:	_____		
E-mail:	_____		

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Part 1: Section 4 Tendering Forms

Form 10 A (cont.)

Specific Experience (cont.)

Contractor's Name: _____ Date: _____

JV/ Consortium / Association Partner Name: _____

Procurement Reference No.: _____

Similar Contract No. <i>___[insert specific number] of ___[insert total number of contracts] required</i>	Information
Description of the similarity in accordance with Sub-Factor 6.2.8a) of Section 3: Evaluation Methodology and Criteria.:	
Amount	_____
Physical size	_____
Complexity	_____
Methods/Technology	_____
Physical Production Rate	_____

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Part 1: Section 4 Tendering Forms

Form 10 A (b)

Specific Experience in Key Activities

Contractor's Name: _____

Date: _____

JV/ Consortium / Association Partner Name: _____

Procurement Reference No.: _____

	Information		
Contract Identification	_____		
Award date	_____		
Completion date	_____		
Role in Contract	Υ Contractor	Υ Management Contractor	Υ Subcontractor
Total contract amount	_____		_____
If partner in a JV / Consortium / Association, specify participation of total contract amount	_____ %	_____	_____
Employer's Name:	_____		
Address:	_____ _____ _____		
Telephone number:	_____		
E-mail:	_____		

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Part 1: Section 4 Tendering Forms

Form 10 (b) (cont.)

Specific Experience in Key Activities (cont.)

Contractor's Name: _____ Date: _____

JV/ Consortium / Association Partner Name: _____

Procurement Reference No.: _____

	Information
Description of the key activities in accordance with Sub-Factor 6.2.9 b) of Section III:	

We, the undersigned, declare that the information contained in and attached to these forms is true and accurate as of the date of Tender submission:

Signed: _____

Name: _____

Duly authorised to sign the Qualification Form for and on behalf of

_____ Dated on _____ day
of _____, _____ [insert day / month / year of signing]

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Part 1: Section 4 Tendering Forms

Form 11

FORM 11: CERTIFICATE OF ATTENDANCE AT CLARIFICATION MEETING

This is to certify that _____ (Tenderer)
of..... (address)
was represented by the person(s) named below at the compulsory meeting held for all tenderers at
..... (Location) on (date), starting at

We acknowledge that the purpose of the meeting was to acquaint ourselves with the site of the works and / or matters incidental to doing the work specified in the tender documents in order for us to take account of everything necessary when compiling our rates and prices included in the tender.

Particulars of person(s) attending the meeting:

Name Signature

Capacity

Name Signature

Capacity

Attendance of the above persons at the meeting is confirmed by the Employer's representative, namely:

Name Signature

Capacity Date & Time

EWAD STAMP

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Section 5: Eligible Countries

Procurement Reference Number: EWADE/0742

All countries are eligible except countries subject to the following provisions.

A country shall not be eligible if:

- (a) As a matter of law or official regulation, the Government of Eswatini prohibits commercial relations with that country, provided that the Government of Eswatini is satisfied that such exclusion does not preclude effective competition for the provision of goods or related services required; or
- (b) By an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Government of Eswatini prohibits any import of Goods from that country or any payments to persons or entities in that country.

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PART 2 - Statement of Requirements

Section 6: Statement of Requirements

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Scope of Works

The below are activity that Contractor should perform

- Construction of substructures
- Clearing site vegetation
- Fencing
- Construction of VIP toilet
- Construction of tank stand
- Electrical works

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Technical Specifications

5.0 PROJECT TECHNICAL SPECIFICATION AND PARTICULAR SPECIFICATIONS

a. PROJECT SPECIFICATION PART 1

STATUS.

Should any requirement of the Project Specifications conflict with any requirements of the Standard Specifications listed in PS 18, the requirements of the Project Specifications shall prevail.

PS 1. GENERAL REQUIREMENTS.

This Project Specification supplements the attached General and Special Conditions, Specifications and Drawings. However, in the case of conflict with any part or parts of the said Specifications or Drawings, the said Project Specification shall take precedence and shall govern.

PS 2. SCOPE OF CONTRACT.

The contract is for the Construction of Chalaza Site Resettled Homesteads Under the Mkhondvo-Ngwavuma Water Augmentation Project (MNWAP). The works include but not limited to the land clearing, earthworks, construction of sub-structure and super structure, electrical works and fencing works.

PS 3. DESCRIPTION OF SITE AND ACCESS.

The project site is located at Chalaza Section under Lushini Chiefdom at Shiselwni Region.

PS 4. NATURE OF GROUND AND SUB-SOIL CONDITIONS.

There is no geotechnical report available for the sites. Hence, contractors are required to familiarise themselves with ground conditions during the site inspection and during the tendering period.

PS 5. DETAILS OF CONTRACT.

The contract includes but is not limited to the construction of the items outlined below:

- a. Site clearance
- b. Earthworks and protection works
- c. Construction works
- d. Electrical works
- e. Roof works
- f. Internal & External Painting works

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Part 1: Section 5 Eligible Countries

g. Fencing works

PS 6. **DRAWINGS.**

The works shall be carried out in accordance with the drawings issued by the Engineer, and any amendments or additions thereto which may from time to time be ordered in writing by the Engineer.

PS 7. **FACILITIES FOR OTHER CONTRACTORS AND RELEVANT AUTHORITIES.**

The Contractor shall in accordance with the requirements of the Engineer afford all reasonable facilities to any other contractors employed by the Employer and their workmen and to the workmen of the Employer and of any properly authorised person, authority or statutory body who may be employed in the execution on or near the Site, of any work not included in the Contract, or of any Contract which the Employer may enter into in connection with or ancillary to the works.

PS 8. **OFFICIAL WORKING HOURS.**

Normal working hours for EWADE shall be from 0730 to 1630 hours on Monday to Fridays inclusive.

Should the Contractor wish to work overtime during the working week or on Saturday, he shall notify the engineer at least 48 hour in advance for approval.

PS 9. **SITE FACILITIES AVAILABLE.**

The contractor must make his own arrangements for the supply of water and electricity.

PS 10. **LOCATION OF CAMP AND DEPOT.**

The site set aside as a camp and depot site for the Contractor will be agreed by the successful Tenderer and the Engineer. Possible sites can be indicated during the site inspection.

PS 11. **SITE FACILITIES.**

An engineer's site office will not be required.

PS 12. **NAME BOARDS.**

Details of the information to be given on the name boards will be shown on a drawing to be issued to the successful Tenderer. The following information will be in the name board: Name of the project the Construction of Chalaza Resettled Homesteads Under the Mkhondvo-Ngwavuma Water Augmentation Project (MNWAP) – EWADE/0742, name of

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Part 1: Section 5 Eligible Countries

the contractor, name of the employer (Eswatini Water and Agricultural Development Enterprise), name of the financier (GoS) and description of the Project.

PS 13. **SURVEY REQUIREMENTS.**

The contractor shall check all survey information provided to them and carry out required survey for proper checks and setting out of structures.

PS14. **CONSTRUCTION PROGRAMME.**

The time allowed for this contract is Five (5) calendar months ONLY. The Contractor shall ensure that the works including testing and commissioning is completed within the time stated above.

PS 15. **SITE DIARY.**

The Contractor shall keep a site diary at his office on the site. Entries shall be made each day concerning progress, delays, numbers of employees and plant on site and any other item that is relevant to the works. Each day's entry shall be signed by the Contractor or his agent and the Engineer. This diary shall constitute the permanent record of the works.

PS 16. **TEMPORARY DRAINAGE WORKS.**

Temporal drainage works will be required in this contract.

PS 17. **BEDDING MATERIALS (for all piping and services)**

Materials used for bedding shall comply with SABS 1200-LB 3.1 or 3.2.

PS 18. **APPLICABLE STANDARDISED AND OTHER SPECIFICATIONS.**

Unless otherwise specified in the supplementary specification, the following standard specifications (including amendments) of the organisations indicated shall form part of this specification.

The following standardised specifications shall form part of the contract:

SANS 1200 A General

SANS 1200 AA Civil Engineering Construction. General (Small Works).

SANS 1200 AB Civil Engineering Construction
Engineer's offices.

SANS 1200 C Civil Engineering Construction

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Part 1: Section 5 Eligible Countries

	Site Clearance.
SANS 1200	D Civil Engineering Construction Earthworks.
SANS 1200	DB Civil Engineering Construction Earthworks (Pipe Trenches).
SANS 1200	DM Civil Engineering Construction Earthworks (Road /Subgrade)
SANS 1200	DK Gabions and Pitching
SANS 1200	GA Civil Engineering Construction Concrete (Small Works).
SANS 1200	GB Civil Engineering Construction Concrete (Ordinary Buildings).
SANS 1200	L Civil Engineering Construction Medium pressure pipelines.
SANS 1200	LB Civil Engineering Construction Bedding (Pipes)
SANS 1200	LC Civil Engineering Construction Cable Ducts
SANS 1200	LE Civil Engineering Stormwater Drainage.

It is the contractor's responsibility to find Copies of these documents.

PS 21. MANUFACTURER'S RATINGS

All equipment such as fans, compressors, cooling towers, pumps, etc., shall be selected to be operated well within the manufacturer's ratings. Equipment offered for use beyond these limits will not be considered.

Tenderers must submit manufacturer's ratings of all equipment offered. Ratings shall be given in the SI system.

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PS 22. NOTICES

The Contractor shall supply and install all notices and warning signs that are required by the appropriate laws or regulations and by these documents.

PS 23. GUARANTEE

The 12-month guarantee called for in the Supplementary Specification, shall apply to all items of plant such as chillers, etc., delivered to site and/or erected. It is the responsibility of the Contractor to negotiate with his suppliers in order to secure their equipment guarantee on this basis.

The date of acceptance shall be that appearing in the acceptance certificate issued by the Client and shall define the start of the guarantee period and free maintenance period (where applicable). No Claims for extended guarantee or otherwise from Suppliers, Principals etc., will be considered even if equipment is required on site long before acceptance date.

PS 24. LUBRICATION

All bearings must be packed with approved grease or filled with the correct oil, and all gearboxes and sumps must be filled with the lubricant specified by the manufacturer. The Contractor will be responsible for the supply of all lubricants required for the initial fill. All lubricants must be new and supplied in sealed drums or containers.

PS 25. COMMISSIONING AND TESTING

Commissioning Engineers

The Tenderer shall allow in his tender price for the services of approved and expert Commissioning Engineers, as may be appropriate for the individual specialized sections of his contract, as well as a competent Engineer in overall control of the installation. Testing and commissioning shall be carried out by these Engineers. Should undue problems be encountered at any time, the Contractor may be requested by the CLIENT to obtain the services of a representative of the manufacturer of specified items of equipment, at no cost to the Client.

Notice of Testing and Commissioning

The Client shall receive not less than two weeks advance notice of any tests to be witnessed by the Client.

Failure of Works, Site or Commissioning Tests

Should the Client be notified to attend official tests as laid down, and should the equipment fail the test for any reason whatsoever, such that the Client is required to re-witness the test, the time, transport and disbursement by the Client in so doing will be for the Contractor's

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account, which amount may be deducted, at the option of the Client, from monies due to the Contractor.

Quality Testing of Equipment

The Client reserves the right to arrange for testing of any piece of equipment at will, to check on compliance with the relevant specifications. Should the particular piece of equipment pass the test, the cost of such testing will be borne by the Client. However, should it fail the test, the cost of the test, rectification of the shortcomings, re-testing and repetition of the same test on the remaining like items will be for the Contractor's account.

Inspection during Manufacture

The Contractor will advise the Client when the items to be supplied are in the course of manufacture. The Client reserves the right to inspect any items during the course of manufacture, and witness any performance tests that may be required thereon. The Contractor shall give the Client at least two weeks advance notice of works tests.

Testing

The Contractor shall be responsible for carrying out all tests laid down in the specific sections elsewhere in this document, in addition to those listed hereafter and in the Supplementary Specification.

Testing and balancing shall not begin until the system has been completed and is in full working order. The plant shall be tested and operated to meet the performance figures and duties specified. All safety features and interlocks will be tested.

The Contractor will be responsible for all costs incurred in the testing, including the supply, calibration and use of all instruments and tools, but not the supply of water or power on site. All instruments and test equipment used shall be provided by the Contractor, and shall be accurately calibrated and maintained in good working order.

All test instruments used for tests to be witnessed by the Client's Representative shall be provided with calibration certificates, which must be available to the client's Representative. Specific attention is drawn to the fact that calibration certificates will be required for the following: Watt meters, ammeters, voltmeters, frequency meters, pressure gauges, flow meters, orifices plates, temperature gauges and dynamometers. All instruments shall be of above standard grade, and test pressure gauges shall not be less than 150mm in diameter. The maximum scale of the instrument shall not exceed 1,5 times the full test requirement. It is essential that the Contractor inspects and tests all equipment before requesting the Client to inspect or witness acceptance tests thereon.

All acceptance tests, whether in the manufacturer's works or on site, must be carried out in the presence of the Client's Representative. Should the Client wish to verify the calibration of any instruments, the Contractor shall make the necessary arrangements for the instrument to be re-calibrated by a recognized authority. Should the instrument prove to be

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correctly calibrated, the cost of the re-calibration test will be borne by the Client. Should the instrument prove to be in error, the cost of the tests will be borne by the Contractor.

Two copies of the complete test reports shall be submitted to the Client, prior to the first delivery of the project. Reports shall cover all tests carried out on individual sections, including such works tests as may have been conducted. All reports shall be neatly typed.

PS 26. **COMMISSIONING**

The Contractor shall carry out all tests and commissioning of the systems installed by him, in a coordinated and properly organized manner.

Should the tests be carried out over an area outside the range of normal speech, it is required that the Contractor make available at least four battery powered, two-way radio sets, to facilitate communications. The testing procedures shall be sufficiently comprehensive to prove the correct functioning of each and every piece of equipment, and its suitability for the application.

After all systems and equipment have been tested and commissioned to the satisfaction of the Client, a detailed demonstration of all functions of the system shall be carried out in the presence of the Client's Representative, so as to allow him to become fully acquainted with the operation of the system.

The commissioning tests shall include the tests laid down under the specific sections hereafter, and a full operational test of all pumps, compressors, fans and control gear in all modes of operation.

The Contractor shall allow for the replacement and cost of any materials and fuel used for testing purposes, as part of the contract.

The demonstration to the users shall include a repeat of the operational tests above.

The planning of this demonstration shall take place in collaboration with the Client. A certificate of completion will not be issued until all tests have been satisfactorily completed, and the plant has operated successfully, to the complete satisfaction of the Client.

PS 27. **PERFORMANCE TOLERANCE**

All performance figures obtained during testing and commissioning must be within -5% and +5% of the specified performance figures given in the supplementary specification. Should the plant fail to comply with these figures after it has been tested and operated for a period of seven days, then the Contractor shall have a further four weeks to meet the requirements of the specification, after which the Client shall have the right to reject the plant and recover all monies paid to the Contractor for the rejected plant.

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PS 28. **TEST CERTIFICATES**

The Contractor shall ensure that copies of all relevant test certificates, inspection reports, materials analysis certificates and similar data as may be required under various sections of this specification, or by Government Licensing and Inspection Authorities or Local Authorities, shall be provided before handing over the plant. Acceptance of the plant will be delayed if such certificates are not available. In particular, attention is drawn to pressure vessel and boiler construction and materials test certificates.

PS 29. **APPLICATION FOR INSTALLATION**

The Contractor shall allow for the submission of the necessary forms, fees and drawings to the Inspector of Machinery or other relevant Authorities to obtain permission to install equipment where this is required. He shall also, in co-operation with the Client make any arrangements that may be required for Government Inspectors or other relevant Inspectors to carry out prescribed tests.

PS 30. **POWER, WATER AND DRAIN CONNECTIONS**

Power, water and drain points in the plant room will be provided by and at the expense of the Client. All plumbing between equipment and water and drain points shall form part of the contract. The exact details of terminal points will be set out in the Supplementary Specification.

PS 31. **QUALITY OF MATERIALS**

Only new materials of high quality shall be used throughout and shall be subject to the approval of the Client. All materials, where applicable, shall conform in respect of quality, manufacture, tests and performance, with the requirements of the SABS standards or, where no such standards exist, they shall conform with the appropriate current specification of the British Standard Institution. Materials manufactured in South Africa shall be used wherever possible. Imported materials shall comply with the requirements of the relevant SABS or British Standard Specifications, although these materials need not necessarily bear the SABS mark. All materials shall be suitable for the particular site conditions. These conditions shall include weather conditions as well as prevailing conditions during installation and subsequent permanent use. Should the materials or components not be suitable for use under temporary site conditions, where applicable, the Contractor shall provide at his own cost suitable protection until these unfavorable site conditions cease to exist.

PS 32. **SERVICE ACCESS**

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**Environmental, Social, Health and Safety Requirements
Eswatini Water and Agricultural Development
Enterprise (EWADE)**



**MKHONDVO NGWAVUMA WATER AUGMENTATION
PROJECT (MNWAP)**

**ENVIRONMENTAL AND HEALTH AND
SAFETY SPECIFICATION**

February 2025

ENVIRONMENTAL SPECIFICATION

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LIST OF ACRONYMS AND ABBREVIATIONS

CMP	-	Comprehensive Mitigation Plan
CLO	-	Community Liaison Officer
EM	-	Environmental Monitor
EMO	-	Environmental Monitoring Officer
EMP	-	Environmental Management Plan
EPO	-	Environmental Performance Objective
ESIA	-	Environmental and Social Impact Assessment
ESMP	-	Environmental and Social Management Plan
EEA	-	Eswatini Environmental Authority
EWADE	-	Eswatini Water and Agricultural Development Enterprise
HSP	-	Health and Safety Plan
MNWAP	-	Mkhondvo Ngwavuma Water Augmentation Project

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PART 1 PREAMBLE

1.1. INTRODUCTION

- 1.1.1. This document describes in detail the environmental specifications which must be met by bidders for the development of the Mkhondvo Ngwavuma Water Augmentation Project (MNWAP).
- 1.1.2. The document will form part of the Project Specifications for each specific contract tendered under the overall project.
- 1.1.3. Part 1 provides background information for the tenderer. Part 2 contains the detailed contractual specifications for environmental management of the construction projects which will provide for prevention and avoidance of specific impacts at the construction sites, as well as those away from the site(s) but caused by site-specific construction activities. Part 3 contains the health and safety specification to which the contractor should consider during construction.

1.2. COMPREHENSIVE MITIGATION PLAN

- 1.2.1. The environmental and social issues of the MNWAP have been studied and assessed in several documents, including a feasibility study, an environmental and social impact assessment (ESIA), an environmental and social management plan (ESMP) and a series of appraisal reports. These have dealt with the impacts of the MNWAP in a comprehensive and regional context.
- 1.2.2. The ESIA has been accepted by the Eswatini Environmental Authority (EEA), who has issued an environmental compliance certificate and authorisation for the MNWAP as an entity.
- 1.2.3. The ESMP deals with impacts predicted to occur from development of the major project components listed under 1.1 above and mitigation measures to be implemented. The predicted impacts are covering the pre-construction/ construction and operational phases of the project.

1.3. ENVIRONMENTAL SUPERVISION

- 1.3.1. The contractor shall hire full-time **Environment Officer and a Health and Safety (SHE) Officer** who shall be responsible for all safety health and environment issues of the project.
- 1.3.2. The Contractor is expected to cooperate fully with all supervisory staff assigned to the contract site, in particular:
 - The Engineer who retains full authority for all site activities;
 - The Environmental Monitoring Officer (EMO) who reports directly to the Engineer and through him to the EWAVE Project Manager.

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- The Environmental Health Officer who reports to the Engineer through him to the EWADE Project Manager.

1.4. ENVIRONMENTAL MANAGEMENT OF CONSTRUCTION

- 1.4.1. An environmental performance objective is associated with each construction activity. This is the target for each activity and forms the baseline against which compliance and progress are measured.
- 1.4.2. The purpose of specifying and complying with environmental objectives during the construction process is to minimise the many and varied types of environmental and social impacts which may occur. Avoidance is far preferable to the less cost-effective options of undertaking remedial actions or controlling or treating deleterious discharges to the environment.
- 1.4.3. Contractors are expected to utilise best practice methods and management to meet the environmental performance objectives.
- 1.4.4. The basis for effective mitigation of construction-related environmental impacts is an **Environmental Management Plan (EMP)** for the tendered work. This will form part of the Contractor's proposal and will be subject to review during tender evaluation. A detailed management plan must also be submitted to the Engineer for approval prior to Contractor site mobilisation (Section 2.1).
- 1.4.5. The Contractor is expected to be familiar with the relevant clauses and conditions of all environmental and other legislation which may relate to construction site activities, and which may impose limitations on actions and procedures. Annex 1 lists the most important current Eswatini Acts and Regulations which deal with environmental items.

1.5. COMMUNITY LIAISON

- 1.5.1. Contractors are required to maintain a high level of communication and cooperation with local communities in order that communities may derive as much benefit as possible from the construction activities and provide the Contractor with local services.

1.6. APPROVALS

- 1.6.1. The Contractor will be required to make submissions for approvals required from the Engineer for activities indicated in Section 2 in good time to allow for any necessary investigations and consultations.
- 1.6.2. The Contractor should note that certain construction activities require the prior approval of the Board of EWADE and/or of Government of Eswatini Ministries and Departments. In particular, the locations and designs of all borrow pits and spoil dumps must be submitted (through the Engineer) for approval from the Eswatini Environment Authority (EEA) at least three (3) months prior to development.

1.7. MONITORING AND AUDITING

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- 1.7.1. Frequent and regular environmental monitoring is an integral component of sound construction site environmental management. Periodic environmental audits of construction sites are a legal requirement. The Contractor is required to provide full cooperation to environmental monitors and environmental auditors during inspections and audits.
- 1.7.2. During site mobilisation and prior to construction commencement the Contractor will be expected to assist the EMO in preparing a detailed construction monitoring plan which, amongst other things, will:
- 1.7.3. Identify all construction activities, outline the stages of activity and proposed schedule for each, and assign a monitoring frequency to each;
- 1.7.4. Be of a standard format which will allow for recording of the environmental status of each activity, any problems or issues occurring, and the status of remedial actions;
- 1.7.5. The contractor's environment officer and health and safety officer shall provide an environment, health and safety report at all contract meetings.
- 1.7.6. Be the basis for reporting by the EMO to the Engineer and EWADE on a weekly or monthly basis (depending on the items under review), with copies provided to the Contractor.
- 1.7.6.1. The specifications in Part 2 require the Contractor to take prompt and appropriate remedial action for all problems reported by the EMO and environmental auditors.

1.8. NON-COMPLIANCE

- 1.8.1. In the event of significant environmental management non-compliance, as so deemed by the Engineer, the Contractor will be ordered to halt work until the specific conditions have been met or the contravening conditions removed. The costs of the work stoppage will be borne by the Contractor.
- 1.8.2. In cases where the Contractor does not rectify the situation to the approval of the Engineer, the latter is empowered to take steps to remedy the situation and to recover the costs of so doing from the Contractor.
- 1.8.3. Failure to show adequate consideration for the environmental aspects of the Contract will be deemed sufficient cause for the Contractor's representative and/or any other Contractor's employee to be removed from the site in terms of the Conditions of Contract.
- 1.8.4. Any dispute arising from application of the environmental requirements will be resolved by the Engineer, whose decision will be final.

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PART 2 ENVIRONMENTAL MANAGEMENT SPECIFICATIONS FOR CONSTRUCTION

2.1. ENVIRONMENTAL PLANNING

- 2.1.1. Before any construction work commences, the Contractor shall draw up an Environmental Management Plan (EMP) and submit it to the Engineer for approval.
- 2.1.2. The Contractor shall note the conditions of the EEA authorisation.
- 2.1.3. The EMP shall identify all construction activities and components which have potential environmental impacts. The EMP shall specify (but not be limited to):
 - (a) types, locations and scheduling of construction activity;
 - (b) size and locations of areas to be cleared, including those for spoil dumps, waste dumps and temporary access roads;
 - (c) scheduling of land and site reclamation work;
 - (d) types, locations and scheduling of plant to be brought in and installed;
 - (e) types, locations and scheduling of waste management systems to be deployed;
 - (f) types, locations and scheduling of sanitation systems to be deployed;
 - (g) numbers and types of personnel to be deployed on and off site, and
 - (h) proposed labour management practices, including housing, transportation and safety care.
- 2.1.4. The EMP shall indicate the environmental risks of each construction activity and indicate contingency actions to be taken in the event of a risk event occurring.
- 2.1.5. The EMP shall indicate the activities and steps proposed by the Contractor to meet the environmental specifications outlined in this document.

2.2. NATURAL ENVIRONMENT

2.2.1. Vegetation

- 2.2.1.1. The Contractor's personnel shall not inflict any damage through cutting, burning or defacing to vegetation which is not required to be cleared for construction purposes.
- 2.2.1.2. The Contractor shall not introduce any alien vegetation in the form of seed or plants to the site for beautification of office or housing areas or for any other purposes. The use of indigenous trees and shrubs for such purposes is encouraged.
- 2.2.1.3. Wood retrieved from clearing operations may be used for cooking and heating purposes on construction sites, consistent with fire control requirements (Section 2.19).

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- 2.2.1.4. The clearing of sight lines outside of the road reserve shall be done by hand and kept to a minimum necessary to obtain readings. Trees and other natural features may not be defaced, painted or otherwise damaged.

2.2.2. Fish and Wildlife Disturbance

- 2.2.2.1. There shall be no hunting, shooting, snaring, harassment, nest-raiding or egg-collecting of any wild animal or bird by construction personnel.
- 2.2.2.2. The Contractor shall ensure that no construction personnel enter areas designated as sensitive for any purpose without prior approval from the Engineer.
- 2.2.2.3. Construction personnel shall not be permitted to fish in rivers and streams traversing or adjoining the project development area.

2.3. SITE DEVELOPMENT AND OCCUPATION

2.3.1. Site Access

- 2.3.1.1. All areas of construction activity shall be fenced by the Contractor prior to construction, unless authorisation to the contrary is given by the Engineer. Fencing shall be done at individual areas of construction and around the full perimeter of the site.
- 2.3.1.2. Construction activity shall take place only in areas which are deemed to be safe. All sites that are identified by the Engineer as being unsafe shall be indicated as such with warning signs in all relevant languages.
- 2.3.1.3. Livestock shall not be permitted access to construction sites.

2.3.2. Site Clearing

- 2.3.2.1. The size of areas subjected to land clearance shall be kept to a minimum.
- 2.3.2.2. Areas selected for clearing shall avoid wherever possible locations of agriculturally productive soils, highly erodible soils, steep slopes which are prone to water and wind erosion, important habitats for fauna and flora, forested areas, and locations close to homesteads or settlements which are not going to be resettled.
- 2.3.2.3. The Contractor shall advise the Community Liaison Officer of construction site locations in good time so that local communities can collect wood and plant materials prior to site construction activities.
- 2.3.2.4. Initial felling of all trees with basal stem diameters of 10 cm and more shall be done manually so that local communities can retrieve the wood.
- 2.3.2.5. Cleared vegetation debris which has not been utilised or collected by local communities shall be collected and disposed of as backfill in excavations. It shall not be burned on site.
- 2.3.2.6. No clearing of vegetation shall be done other than in areas that have been delineated for construction.

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2.3.2.7. No vegetation shall be cut or collected off construction sites for burning or for any other purpose without the prior permission of the Engineer.

2.3.2.8. All vegetation not required to be removed shall be protected against damage.

2.3.3. Haul Roads

2.3.3.1. The Contractor shall include in the EMP and submit for the approval of the Engineer full details of any haul roads proposed for construction. Sections of any existing or abandoned roads shall be considered for upgrading and rehabilitation before new construction is proposed.

2.3.3.2. All vehicle traffic shall be confined to well-defined haul roads.

2.3.3.3. Haul roads shall wherever practical not be routed across sloping terrain.

2.3.3.4. Road cut slopes shall be designed and constructed to minimise the angle of incline.

2.3.3.5. Where practical, road cut surfaces shall be roughened and seeded to increase infiltration of rainfall and decrease the velocity of water across the slope during rainfall events. Section 2.17 provides specifications for seeding of exposed surfaces.

2.3.3.6. The Contractor shall ensure that safe crossing points for pedestrians within the construction site are well-marked.

2.3.4. Boreholes

2.3.4.1. The siting of boreholes to be drilled on site shall be approved in advance by the Engineer as well as by the Department of Water Resources.

2.3.4.2. Wherever possible, boreholes shall be located close to existing or proposed settlements.

2.4. BORROW PITS AND QUARRIES

2.4.1. Approvals for borrow pits shall be sought from the Eswatini Environment Authority and shall not be used prior to obtaining clearance. The contractor shall allow adequate time to apply for approvals from the authority.

2.4.2. Borrow pit, quarry and other excavations shall be undertaken with rehabilitation in mind and shall be planned to ensure that rehabilitation of disturbed land can be done in a cost-effective way.

2.4.3. Inner slopes of borrow pits shall be graded so as not to exceed 1:3.

2.4.4. Borrow pits and other excavations shall be backfilled to the maximum extent possible with overburden and/or materials obtained from earthworks, clearing and grubbing.

2.4.5. Suspended solids in runoff from the borrow pits and quarries shall be removed by means of settlement ponds before the runoff is discharged to the environment.

2.4.6. Sluicing of rockfill must be monitored and a return water-settling pond constructed downstream of the area to prevent fines entering the watercourses.

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2.4.7. All water discharged from the borrow pits and quarries shall comply with national effluent standards (see Annex 2).

2.4.8. Relevant sections in this document on storm water management, erosion control and land reclamation shall be deemed to apply to all borrow pits and quarries.

2.5. SPOIL DUMPS

2.5.1. Spoil dumps shall be located at least 10 m away from natural drainage lines. Spoil dumps shall not be placed in natural drainage lines.

2.5.2. Spoil dumps shall be placed wherever practical in topographically sheltered locations to obtain maximum protection from wind exposure.

2.5.3. Spoil dumps shall be placed in areas where there are barriers to flow from the upstream catchment. These barriers could include catch-water drains or fills. Where there are no barriers, bunded canals designed for 1:5-year rainfall events shall be constructed upstream of the spoil dumps. Where the size of spoil dumps and dumps exceeds 500 m³, bunded canals shall be constructed downstream to capture runoff from 1:5-year rainfall events.

2.5.4. Spoil dumps located on floodplains shall be finished and contoured to minimise loss of material in a flood or rainfall event.

2.5.5. All spoil dumps assessed as being unstable shall be encircled with silt fences or drainage systems that will collect and dispose of contaminated water.

2.5.6. Spoil dumps shall have slopes not greater than 1:2 (vertical to horizontal). Less steep slopes shall be applied in conditions where erosion risks are indicated to be high.

2.5.7. Spoil dumps shall be smoothed and contoured and compacted to prevent ponding.

2.5.8. Topsoil shall be stored separately from under-burden and other materials (see Section 2.17.4).

2.5.9. Any topsoil dump which is to be maintained for longer than 28 days shall be treated with mulch, roughened and seeded with an approved grass mixture (see Section 2.17.7).

2.5.10. Any under-burden spoil dump which is to be maintained for longer than 28 days shall be covered with a layer of topsoil at least 250 mm thick, treated with mulch, roughened and seeded with an approved grass mixture (see Section 2.17.7).

2.5.11. Unstabilised spoil dumps shall be treated appropriately against dust by hand watering or the installation of temporary sprinklers.

2.6. STORM- AND WASTEWATER MANAGEMENT

2.6.1. Water Flows across Construction Sites

2.6.1.1. This section shall be read together with that dealing with erosion control (Section 2.8).

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- 2.6.1.2. Adequate measures shall be put into place to control surface water flows across and around all construction sites.
- 2.6.1.3. The quantity of uncontaminated storm water entering cleared areas shall be minimised by appropriate site design and by installation of control structures and drains which direct such flows away from cleared areas and slopes to stable (vegetated) areas or effective treatment installations.
- 2.6.1.4. Site drainage lines shall be identified, and control measures installed to handle predicted storm water and sediment loads generated in the mini catchment.
- 2.6.1.5. The extent of continuous slopes in zones where flowing water is anticipated shall be minimised by appropriate design and the installation of control structures.
- 2.6.1.6. The velocity of storm water flows and associated scouring across construction sites shall be controlled through the installation of geotextiles, rock- or other structures.
- 2.6.1.7. All drains constructed on site must discharge into natural drainage lines.
- 2.6.1.8. Any natural drainage lines that discharge water on to the top of a slope shall be directed to grassed areas by intercept drains. Perimeter banks or sediment fences shall be constructed at the toe(s) of slope(s) to contain sediment run-off.
- 2.6.1.9. Cross drains shall be put in place for every stream that is traversed by temporary access roads.

2.6.2. Water Removal from Construction Sites

- 2.6.2.1. Water and sediment control measures, including storm water drainage systems, shall be installed before construction commences.
- 2.6.2.2. Dewatering shall be affected wherever practical by pumping water:
 - A. preferably onto vegetated areas of sufficient width to remove suspended sediments;
 - B. as a secondary option to sediment control devices; or
 - C. as a last option into natural waterways.
- 2.6.2.3. All pumping shall be supervised, and all precautions taken to ensure that turbidity of pumped water is minimised. Pumping operations shall be monitored at least once every hour.
- 2.6.2.4. Water pumped into the storm water system, or a natural waterway shall be subjected to sediment removal if the turbidity exceeds 30 NTU. Contaminated water removed from construction sites shall not be pumped into the storm water system or natural waterways unless the quality of such water complies with national effluent standards (Annex 2).
- 2.6.2.5. Precautions shall be taken to ensure that vegetated areas receiving pumped water do not become waterlogged and have adequate capacity to effectively remove suspended solids.

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2.6.3. Wastewater

- 2.6.3.1. The Contractor shall submit a site design of waste/foul water management systems as part of the environmental management plan for prior approval by the Engineer. The design shall include at least one site designed and certified in accordance with the Eswatini Waste Regulation (2000).
- 2.6.3.2. All water discharged from the works including effluent from sewage treatment, wash water and storm water from workshops and refuelling areas, as well as all runoff from areas with pollution potential shall comply with national effluent standards (see Annex 2).
- 2.6.3.3. Settlement and retaining ponds shall be installed to allow for the removal of oil, sand silt, cement and other suspended solids in discharged wastewater. Where necessary, the water shall be treated prior to release.

2.6.4. Work in Waterways

Where it is not possible to avoid working in a stream the following additional precautions shall be taken:

- 2.6.4.1. The extent of works and the time during which work in a waterway is carried out shall be minimised.
- 2.6.4.2. Works shall be scheduled wherever practical for the driest months of the year and for the lowest flow of the waterway.
- 2.6.4.3. Protocols to minimise downstream damage shall be drawn up and applied.
- 2.6.4.4. Any disturbance to a levee or stream bank shall be repaired as quickly as possible to avoid erosion.
- 2.6.4.5. Turbidity shall be monitored immediately downstream from the areas in which work is occurring. Where continuous monitoring shows degraded water quality, the work procedures must be modified or halted.
- 2.6.4.6. When working in a concrete channel, appropriate machinery must be used to avoid damage to structures.
- 2.6.4.7. If in-stream activities require construction of a stream crossing, it shall be installed during low-water flows with downstream weirs in place to trap any released sediment.

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2.6.4.8. The type of access crossing used shall comprise:

- (a) preferably a bridge: this type of crossing must be used for major waterways and for waterways with high flows;
- (b) a culvert as a second option; or
- (c) a ford: this type of crossing may only be used during periods of low flow and shall not be used if construction will continue during wet periods of the year.

2.6.4.9. Any crossing required shall be positioned perpendicular to the flow and located at the narrowest part of the stream. Damage to the stream bed and banks shall be avoided. The crossing shall be engineered to be stable under expected vehicle loads. Drainage over the surface of the crossing and access road shall have adequate controls to ensure that sediment run-off to the stream is minimised. Crossings shall be protected against erosion to prevent excessive sedimentation to prevent washout of the crossing;

2.6.4.10. If a cofferdam is placed in a stream, minimum downstream flows shall be maintained that will sustain aquatic ecosystems.

2.6.5. Contingency Planning

Contingency plans shall be in place to deal with site flooding, and shall address the following:

2.6.5.1. Methods to limit large quantities of storm water entering excavation areas.

2.6.5.2. Enhancement of existing measures and installation of additional controls when an intense storm event is forecast.

2.6.5.3. Siting of construction facilities.

2.6.5.4. Clean-up procedures, including disposal of excess water.

2.6.5.5. Flood warning systems.

2.6.5.6. Procedures for preventing the loss through flooding of spoil, fuel, chemicals or other materials that could adversely affect the environment.

2.6.5.7. Notification of the relevant authorities, including the Engineer, if unplanned incidents occur that could pose a risk to the environment.

2.7. SEDIMENT CONTROL

2.7.1. Erosion and sediment control measures, including storm water drainage systems, shall be installed before construction commences.

2.7.2. Installed sediment detention dams, ponds or basins shall have sufficient capacity for sediment-contaminated run-off to enable retention long enough for suspended sediments to settle out.

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- 2.7.3. Installed erosion and sediment run-off control measures shall be appropriate to site conditions to handle a one-in-two-year storm event for temporary structures, and a one-in-fifty-year storm event for permanent structures which provide ongoing sediment control after a site has been rehabilitated.
- 2.7.4. Sufficient area shall be provided within the confines of the cleared sites to allow for dumping of silt cleared from the settlement ponds. Settlement ponds shall be cleared and maintained as regularly as is necessary to ensure that they can contain at least a 1:5-year storm event.
- 2.7.5. Silt loads shall be treated as close to their source as possible using effective sediment traps such as geotextile fences and straw bales.
- 2.7.6. An adequate inspection, maintenance and cleaning program shall be maintained for sediment run-off control structures.
- 2.7.7. Contingency plans shall be in place for extreme storm events.

2.8. EROSION CONTROL

- 2.8.1. The specifications in this section shall be read and interpreted along with those in Section 2.6 (storm- and wastewater management).
- 2.8.2. Site activities shall take overall recognition of the importance of measures to avoid and reduce erosion by phasing the work program to minimise land disturbance in the planning and design state, by keeping the areas of land cleared to a minimum, and by ensuring that the period for which areas remain cleared are kept to a minimum.
- 2.8.3. Energy dissipaters such as gabion mattresses shall be placed at the outlets from diversion canals and silt traps.
- 2.8.4. Concrete verges shall be developed at the main road crossing points which are developed as part of dam construction activities.
- 2.8.5. Erosion of footpaths linked to these main road crossings shall be prevented by paving the stretches which are susceptible to erosion. The Engineer shall confirm the extent of paving required.
- 2.8.6. All cleared areas shall be promptly rehabilitated and in accordance with specific instructions from the Engineer.

2.9. FUEL AND CHEMICAL STORAGE

- 2.9.1. The amounts of fuel and chemicals stored on site shall be minimised.
- 2.9.2. Storage sites shall be provided with bunds to contain any spilled liquids and materials.
- 2.9.3. Regular inspections shall be carried out to detect leaks and spillages. All storage facilities shall be maintained as regularly as is necessary to ensure they meet the original specification.

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- 2.9.4. Fuel tanks shall be established on impervious bunded concrete slabs and equipped with a leak proof sump. Fuel tanks and similar storage facilities with a high pollution potential shall be bunded to 110% of their storage capacity.
- 2.9.5. Dedicated buildings and/or containment areas shall be established to contain or store hazardous substances. These facilities shall be located in excess of 30 m from any watercourse or drainage line.
- 2.9.6. Contingency plans shall be put in place for dealing with emergency spills and hazard events.
- 2.9.7. All spillages shall be cleaned up by the Contractor immediately after they take place. Steps shall be taken to prevent a recurrence of a spillage.
- 2.9.8. Areas which have been contaminated by minor or accidental spillages shall be excavated and the contaminated material moved to a waste site designed and certified in accordance with the Eswatini Waste Regulation (2000). The costs involved for the excavation of contaminated areas, the replacement with clean and uncontaminated soil, as well as the disposal of the contaminated soil, shall be borne by the Contractor.

2.10. REFUSE AND WASTE DISPOSAL

- 2.10.1. The Contractor shall submit a site design of waste management systems as part of the environmental management plan for prior approval by the Engineer. The design shall include at least one waste site designed and certified in accordance with the Eswatini Waste Regulation (2000).
- 2.10.2. Waste management on site shall be carried out by applying, in order of preference, waste avoidance, reuse, recycling and disposal.
- 2.10.3. Burning of waste material shall not be permitted except under special circumstances and with prior approval of the Engineer.
- 2.10.4. The following materials may not be spilled or disposed of on site or within the region:
 - (a) oil, whether used or unused;
 - (b) batteries;
 - (c) bulk bituminous products; and/or
 - (d) other materials identified for removal by the Engineer.

Such materials shall be removed from site to the original suppliers. The arrangement with suppliers to accept these materials shall be part of the tender.

- 2.10.5. The Contractor shall provide and maintain adequate facilities for litter collection (e.g. bins) at strategic locations around office, garage, parking, housing facilities and locations where food is consumed.
- 2.10.6. Litter collection at all construction sites shall be undertaken at least once per working day. Work teams shall be supplied with refuse bags which can be disposed of daily in skips at centralised locations.

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2.10.7. A high quality of housekeeping shall be maintained on all construction sites to ensure that materials are not left where they can be washed or blown away to become litter.

2.10.8. The contractor's staff shall be made fully aware of the need to avoid littering.

2.11. SANITATION

2.11.1. Suitable toilets shall be provided for the staff at all points at which workmen are carrying out duties under the contract.

2.11.2. The Contractor shall monitor that toilet facilities are used by personnel and that use of non-designated areas is actively discouraged.

2.11.3. Latrines and ablution facilities shall not be situated within 150 m of any borehole, well or river.

2.11.4. The Contractor shall ensure that sewerage is removed and disposed of in an adequate and approved septic tank and soakaway system.

2.11.5. The Factories, Machinery and Construction Works Regulation (1974) of The Factories, Machinery and Construction Works Act, 1972 (No 17 of 1972), and any amendment thereof shall apply in terms of sanitary accommodation.

2.11.6. The Building Operations Regulation, 1969 of The Building Act, 1968 (No 34 of 1968) and any amendment thereof shall also apply in terms of latrine and chemical closet requirements.

2.11.7. The Public Health Act, 1969 shall apply in terms of public nuisances and provision for sanitation

2.12. AIR QUALITY

2.12.1. The Contractor shall ensure that all vehicles and machinery are fitted with appropriate emission control equipment, are maintained frequently and serviced to the manufacturer's specifications.

2.12.2. Smoke emitted from internal combustion engines running on site shall not be visible for more than ten seconds.

2.12.3. Burning of materials including wood, grass and refuse which emit visible smoke shall not be permitted on construction sites.

2.13. DUST CONTROL

2.13.1. A dust prevention strategy shall be included in the environmental management plan.

2.13.2. Dust dispersion from construction activities, unsurfaced roads, spoil dumps and other construction locations shall be limited and suppressed to the maximum extent practical.

2.13.3. Spoil dumps shall be positioned such that they are not vulnerable to wind erosion.

2.13.4. Smooth exposed surfaces which generate dust shall be deep ripped and left rough and cloddy to reduce the wind velocity at the soil surface.

2.13.5. Wind fences shall be deployed at problematic dust-generating sites if this is appropriate for the site.

2.13.6. Spoil and other dust-generating dumps which are left unused for 28 days or longer shall be sprayed with water or chemically inert stabilisers to control dust and treated with mulch and seeded as per Section 2.17.

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2.13.7. Untarred roads shall be sprayed with water from a water cart to limit dust generation by construction vehicles. Where spraying of water on roads is not adequate for dust control, environmentally benign binding agents shall be used to limit dust generation by construction vehicles.

2.13.8. An appropriate freeboard shall be maintained in trucks hauling dirt, sand, soil and other loose material when leaving the road reserve.

2.14. PLANT REPAIR, MAINTENANCE AND CLEANING

2.14.1. Any vehicle maintenance and repairs shall not be undertaken within a 30-m radius of any water courses and drainage lines. Any facilities susceptible to oil, petrol and diesel spillage shall be located a minimum of 30 m and preferably 50 m from all water course.

2.14.2. Repair yards, batching plants and stationary machines shall be provided with sumps, and spilled fluids and runoff shall be kept in a conservancy tank until removed from the site in terms of the Eswatini Waste Regulation (2000).

2.14.3. Adequate collection facilities such as diversion mounds, ditches, drains, oil separation sumps and sedimentation ponds shall be constructed at each location with a pollution potential.

2.14.4. All repair work away from bunded areas shall make use of drip trays.

2.14.5. Regular inspections shall be carried out to detect leaks and spillages. These facilities shall be maintained as regularly as is necessary to ensure they meet the original specification.

2.14.6. All construction plant required for use on the works shall be thoroughly cleaned before dispatch to the site and shall be cleaned before removal from the site. Washing of incoming or outgoing plant at or near rivers and local streams will not be permitted.

2.15. NOISE AND BLASTING

2.15.1. Blasting

2.15.1.1. The Contractor shall obtain the required blasting permit(s) from the Inspector of Explosives and shall always comply with specified conditions.

2.15.1.2. The Contractor shall prepare and submit to the Engineer for prior approval a map and description of blast hazard areas.

2.15.1.3. The Contractor shall prepare and submit to the Engineer a monthly schedule of proposed blasting operations which set out locations, dates, times, charge size, frequency and sequencing of blasting.

2.15.1.4. Twenty-one (21) days in advance of blasting operations, people living or working in or near the blast-hazard zone shall be notified of the intention to blast and shall be advised on the location, date and times of the blasts, and given a description of the sounds of the warning sirens.

2.15.1.5. Blasting within 500 m of any dwelling or building shall be restricted to between 06:00 and 18:00 daily except for Sundays when no blasting shall be permitted. If blasting is required after 18:00, it shall specifically be authorised by the Engineer.

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- 2.15.1.6. Personnel must be cleared in good time from an area within a 500-m radius of a proposed blasting location prior to any blasting operations. One hour before blasting, a distinctive siren shall be sounded. Five minutes before blasting, a second distinctive siren (different from the first) shall be sounded.
- 2.15.1.7. The Contractor shall assess whether construction-generated noise is disturbing to schools and clinics within 2 km of the construction sites and shall take steps to reduce or otherwise minimise such disturbance.
- 2.15.1.8. In the event of any reported blasting damage to non-construction structures or facilities, the Contractor shall compile a written report supported by a photographic record and submit same to the Engineer within 24 hours. All blasting operations shall be immediately suspended until resumption is authorised by the Engineer.
- 2.15.1.9. All damage to non-construction structures or facilities shall be repaired as quickly as possible at the Contractor's expense in accordance with written authorisation provided by the Engineer and following agreement by the owner(s) to receive repairs.

2.15.2. NOISE

- 2.15.2.1. Construction-site generated noise shall not be above background levels inside any homestead adjacent to the construction areas between 10 pm and 7 am.
- 2.15.2.2. The Community Committee shall be advised in advance when unavoidable out-of-hours work will occur.
- 2.15.2.3. Appropriate and effective mufflers will be fitted to earth-moving and other vehicles on the site.
- 2.15.2.4. Noise from vehicles and on-site powered machinery and equipment shall not exceed the manufacturer's specifications, based on the installation of silencers.
- 2.15.2.5. Depending on the location of the facility, suitable noise suppression or abatement measures may be required, such as the provision of earthen embankments or other noise screens.
- 2.15.2.6. Silencers on construction equipment shall be maintained to ensure no deterioration in noise-dampening capacity.
- 2.15.2.7. The Contractor shall respond timeously in the event of any complaints by residents or others about disturbing noise. The noise source shall be identified and appropriate noise mitigatory measures instituted in consultation with the affected party(ies).

2.16. CULTURAL RESOURCES

2.16.1. Graves

Identification and removal of all graves within the construction site(s) will be undertaken under the resettlement programme and the employer notified as soon as identified. There is a slight possibility that unmarked graves may be encountered during construction excavations and other site activities. In such an event, the Contractor shall immediately halt the disturbance and inform the Engineer, who shall take the necessary steps to contact the Community Committee and effect the necessary removal of the graves from the construction area.

2.16.2. Artefacts

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There is a slight possibility that historic artefacts (e.g. iron implements, pottery shards) may be unearthed by construction excavations and other site activities. In such an event, the Contractor shall immediately halt the disturbance and inform the Engineer, who shall take the necessary steps to contact archaeologists and cultural historians and effect the necessary collection of the material from the construction area.

2.17. LAND RECLAMATION

Disturbed areas shall be rehabilitated through landscaping, topsoil replacement and the establishment of vegetation.

Wherever possible, rehabilitation shall take place during the construction phase as soon as the disturbing force is removed from the area to be rehabilitated.

All construction activities, specifically borrow-pit development and additional shall be undertaken with rehabilitation in mind and shall be planned to ensure that rehabilitation of disturbed land can be done in a cost-effective way.

2.17.1. Timing and Scheduling of Reclamation

2.17.1.1. Where the re-vegetation of disturbed areas is delayed by construction or growing season constraints, appropriate intermediate measures shall be taken to control erosion, including the use of energy dissipaters, the use of berms and storm-water-diversion canals, and the application of straw mulches or soil binders to exposed soils.

2.17.1.2. Vegetation establishment in disturbed shall be undertaken as early as possible, with growing season and water availability being the primary time constraints.

2.17.1.3. Re-vegetation and mulching shall be carried out progressively as each section of works is completed; the interval between clearing and re-vegetation shall be kept to a minimum.

2.17.1.4. If more than one contractor is working on a site, the work schedules shall be coordinated so that there are no delays in construction activities resulting in disturbed land remaining unstabilised.

2.17.1.5. Construction activities shall be programmed so that the areas of exposed soil are minimised during times of the year when the potential for erosion is high (e.g. summer).

2.17.1.6. Sites shall be stabilised, and erosion controls installed so that they remain effective during any pause in construction, especially during the wetter months.

2.17.1.7. Any cultivated and/or grazing land disturbed including areas impacted by borrow pits and spoil dumps, shall be rehabilitated as soon as the disturbing force is removed, within the constraints of the growing seasons.

2.17.2. Landscaping

2.17.2.1. Landscaping shall be undertaken to restore the natural topography of the areas that have been disturbed or else to reduce slopes to stable gradients (no more than 1:3 and preferably flatter).

2.17.2.2. Spoil from construction shall be used for landscaping purposes where possible. Additional material which may be required for landscaping shall be sourced with the Engineer's approval.

2.17.2.3. Borrow pits and other excavations shall be backfilled with overburden and/or materials obtained from clearing and grubbing.

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2.17.2.4. All slopes which do not form part of an engineering structure shall be graded so that no slope exceeds a maximum gradient of 1:3. Where required by the Engineer, agricultural type drains shall be provided to control erosion.

2.17.2.5. Spoil dumps shall be formed in such a manner that the final profile shall appear as a natural extension of the adjacent undisturbed ground profiles.

2.17.2.6. Contoured surfaces shall be left rough to facilitate binding with topsoil and vegetation.

2.17.3. Area Preparation

2.17.3.1. Manual preparation of the reclamation beds shall be given priority consideration to create employment opportunities for the local communities.

2.17.3.2. Mechanical preparation of the seed bed shall not be carried out on slope gradients exceeding 1:4

2.17.4. Topsoil

2.17.4.1. Topsoil⁸ shall be sourced from areas which are cleared for construction and spoil dumps, conserved and used judiciously in the rehabilitation of disturbed land. It should be noted that the project area includes 9 299 hectares with soils deeper than 400 mm and 1 295 hectares with soils deeper than 700 mm. The contractor shall preserve all topsoil within the immediate work areas.

2.17.4.2. Topsoil shall be stripped, stored and respreads with as little compaction as possible.

2.17.4.3. Topsoil stripping shall be scheduled for the dry season.

2.17.4.4. Where practical, topsoil spoil dumps shall not exceed 2 m in height to prevent compaction and limit dispersion of dust from the spoil dumps.

2.17.4.5. Single handling of topsoil shall be practised where possible.

2.17.4.6. Stored topsoil shall be free of deleterious matter such as large roots, stones, refuse, stiff or heavy clay and noxious weeds which would adversely affect its suitability for planting.

2.17.4.7. Any topsoil dump which is to be maintained for longer than 28 days shall be treated with mulch, roughened and seeded with an approved grass mixture (see Section 2.17.7).

2.17.4.8. Land to which topsoil has been applied shall be vegetated as soon as possible after application.

2.17.4.9. Topsoil shall not be required on slopes with gradients steeper than 1:2 as it may be washed away by erosion or caused to slip off by gravity. On slopes with a gradient of 1:2 or less, the layer of topsoil spread over the landscaped surface shall be at least 200 mm. Topsoil shall be spread manually on slopes with a gradient of less than 1:4. Topsoil shall be spread with as little compaction as possible.

2.17.4.10. To restore the crop-producing potential of fields, a topsoil layer at least 250 mm in depth shall be spread across the surface. Topsoil used shall be of the same or better quality than that stripped from pre-disturbance arable lands. Care shall be taken to ensure there are no stones or boulders in the topsoil layer that shall be a mechanical limitation to future cultivation.

⁸ topsoil is defined as the top layer of soil that can be mechanically removed to a depth of about 100 mm without ripping or blasting.

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- 2.17.4.11. To restore the grazing potential of lands, a topsoil layer at least 200 mm in depth shall be spread across the surface during rehabilitation. Topsoil used shall be of the same or better quality than that stripped from pre-disturbance grazing lands.

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2.17.5. Manures, Mulches and Anti-Erosion Compounds

- 2.17.5.1. Manure used for land reclamation shall be free from soil, weed seed and other contaminants.
- 2.17.5.2. Mulch used for land reclamation shall be natural, dried fibres of hay, chaff or tall grass clippings of 50 mm and 400 mm in length, with seed heads intact.
- 2.17.5.3. Mulch shall be applied by hand immediately after seeding or mixed with water as part of a hydro seeding mix.
- 2.17.5.4. Where anti-erosion compounds are used, they shall be applied simultaneously with hydro seeding, at the rate specified by the manufacturer.

2.17.6. Fertilizers, Herbicides and Pesticides

- 2.17.6.1. Samples of different types of topsoil shall be tested to determine the quantity and type of fertiliser required for vigorous grass growth.
- 2.17.6.2. The type of fertiliser to be used shall be one or more of the following⁹
 - a) agricultural lime (1 tonne/ha)
 - b) super phosphate (250 kg/ha)
 - c) limestone ammonium-nitrate (250 kg/ha)
 - d) 2:3:2 (22) (250 kg/ha)
 - e) monophosphate (250 kg/ha)
 - f) 3:2:1 (22) (250 kg/ha)
 - g) 3:2:1 (25) (250 kg/ha)
 - h) 2:3:4 (30) (250 kg/ha).
- 2.17.6.3. The spread of invader and alien species on disturbed land shall be controlled without the use of herbicides (unless otherwise instructed by the Engineer) until the vegetation cover can provide sufficient natural weed control.
- 2.17.6.4. The Contractor shall not make use of any pesticide or insecticide unless so specified by the Engineer.

⁹ application rates indicated here are estimates and actual application rates shall be determined from site specific soil sampling.

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2.17.7. Vegetation Establishment

- 2.17.7.1. Runners of *Cynodon dactylon* (star or couch grass) shall be used for reclamation in grassland areas (areas which have not been disturbed by cultivation).
- 2.17.7.2. Seed mixes shall contain a rapidly germinating annual commercial species¹⁰ which can act as a "nurse crop" to stabilise the soil rapidly and then die out, allowing for colonisation by indigenous species.
- 2.17.7.3. Seed mixes shall contain perennial commercial species with a high viability. These species shall not be invasive. The following species are recommended:
- a) *Cynodon dactylon* (10 kg/ha)
 - b) *Chloris gayana* (10 kg/ha)
 - c) *Digitaria eriantha* (6 kg/ha)
 - d) *Eragrostis curvula* (2 kg/ha)
 - e) *Dactylis glomerata* (4 kg/ha)
 - f) *Paspalum notatum* (8 kg/ha).

2.17.8. Method of Planting

- 2.17.8.1. Manual Option (Grass Runners) on Gradients less than 1:3
- (a) Runners of a grass with a stoloniferous and rhizomatous growth form¹¹ shall be hand planted into drills on the slopes to facilitate rapid stabilisation.
 - (b) The plants must be well watered 24 hours before removal from the supply site and must be planted within 8 hours of removal.
 - (c) A topsoil layer of at least 250 mm shall be provided prior to planting.
 - (d) Areas where hand sowing of runners shall take place shall be well watered before planting.
 - (e) Trenches for the runners shall be cut approximately 80 mm deep along the contour at a spacing of approximately 150 mm. These shall be parallel to the contours of the finished surface.
 - (f) The plants shall be placed at 150 mm intervals with roots well covered and leaves exposed.
 - (g) A mulch of grass cut from the surrounding vegetation when the grass is in seed shall also be used – the mulch application rate shall be 1,5 tonnes/ha.
 - (h) The mulch may need to be secured on slopes with a gradient greater than 1:2, particularly during the rainy season (October to March), with pegged netting (temporary plastic bird netting or permanent biodegradable geonetting).
 - (i) Seeds can be added to the mulch if deemed necessary.

¹⁰ *Eragrostis teff* (teff) applied at a rate of 1,0 kg/ha is preferred for this purpose.

¹¹ *Cynodon dactylon* (star- or couch grass) is preferred for this purpose.

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2.17.8.2. Mechanical Option (Hydro seeding) on Gradients less than 1:3

- (a) The grass and fertiliser slurry shall include a mulch of grass cut from the surrounding areas when the grass is in seed. The mulch application rate shall be 1,5 tonnes/ha.
- (b) An adhesive shall be included in the mixture to prevent the seed and fertiliser from blowing, washing or slipping.
- (c) Only good-quality fresh seed shall be used.

2.17.8.3. Manual Option (Hand Sowing) on Gradients more than 1:3

- (a) Trenches for the seeds shall be cut approximately 80 mm deep along the contour at a spacing of approximately 150 mm.
- (b) Seeds and fertiliser shall be broadcast into the trenches by hand and soil shall be gently compacted using a garden rake or similar implement.
- (c) A mulch of grass cut from the surrounding vegetation when the grass is in seed shall also be used – the mulch application rate shall be 1,5 tonnes/ha.
- (d) Only good-quality fresh seed shall be used.

2.17.8.4. Mechanical Option on Gradients more than 1:3

- (a) Fertiliser shall be spread over the surface and ploughed or disked into the soil.
- (b) The surfaces shall be harrowed until a fine seed bed has been prepared.
- (c) Seed shall be broadcast mechanically and then rolled with an agricultural roller.
- (d) A mulch of grass cut from the surrounding vegetation when the grass is in seed shall also be used – the mulch application rate shall be 1,5 tonnes/ha.
- (e) Only good-quality fresh seed shall be used.

2.17.8.5. Irrigation

- (a) Micro spray irrigation shall be used, and the irrigation system supplied from a water cart.
- (b) Planted areas shall be irrigated daily until firm establishment of the seedlings and/or runners.
- (c) Following successful vegetation establishment, planted areas shall be irrigated on a weekly basis until vegetation cover effective in resisting erosion has been established.
- (d) Irrigation of established vegetation shall be applied if rainfall is inadequate to maintain growth and/or if vegetation dieback occurs.

2.17.8.6. Maintenance

- (a) Monitoring of plant growth shall be conducted on a weekly basis during initial phases and monthly when plants have become firmly established.

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- (b) Vegetation will be replanted in areas where vegetation cover has decreased due to dieback or has failed otherwise to successfully establish.
- (c) Noxious weeds, invasive and alien species shall be controlled by pulling, cutting or any other means approved by the Engineer. The use of herbicides shall not be allowed unless specified by the Engineer. Bare patches shall be replanted.
- (d) Acceptable cover shall be construed as not less than 75% of the area being covered in the case of hydro seeding and sowing and 50% in the case of hand planted runners. There shall be no bare patches greater than 750 mm in diameter.

2.17.9. Follow-up

- 2.17.9.1. For one full growing season after the vegetation has been planted on the disturbed land, access to rehabilitated areas, especially by livestock, shall be prevented by means of fencing.
- 2.17.9.2. Rehabilitated areas shall be monitored and maintained until a self-sustaining plant community that protects soil against erosion has been established.
- 2.17.9.3. It shall be the Contractor's responsibility to eradicate all invasive and alien plant species introduces to the cultivated land in the topsoil within the first year following site reclamation.

2.17.10. Other

- 2.17.10.1. The Contractor shall be responsible for the repair of erosion or drift sands caused by his activities.
- 2.17.10.2. Temporarily disturbed land shall be rehabilitated to its pre-disturbance potential.

2.18. PUBLIC HEALTH ISSUES

In the event of an outbreak of illness of a contagious or epidemic disease amongst construction personnel, the Contractor shall comply with and carry out such regulation, orders and requirements as may be made by the Government of Eswatini, or the local medical or sanitation authorities for the purposes of dealing with and overcoming the same.

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2.19. FIRE CONTROL

- 2.19.1. All construction personnel shall receive training on fire hazards and techniques to extinguish any fire that may be initiated on the site.
- 2.19.2. The equipment required to extinguish any fires that may be initiated by construction activities must be installed on the site.
- 2.19.3. Flammable materials shall be stored under conditions that must limit the potential for ignition and the spread of fires.
- 2.19.4. Staff shall not be permitted to light fires on the site or on surrounding land, in areas other than those designated as safe by the Engineer.
- 2.19.5. There shall be a 5-m firebreak around the construction site. This area shall be kept clear of vegetation and refuse for the duration of the contract.
- 2.19.6. The Factories, Machinery and Construction Works Regulation, 1974 of the Factories, Machinery and Construction Works Act, 1972 (No 17 of 1972) and any amendment thereof shall apply in terms of general safety and fire precautions.

2.20. EMPLOYMENT

2.20.1. Local Preference

- 2.20.1.1. The Contractor shall give employment preference to residents of the Project Area in accordance with approved agreements and procedures adopted by the Community Committee and shall use the database provided by the Committee as a basis for identifying potential job candidates (see hiring protocol in Annex 5).
- 2.20.1.2. The Contractor's core of employees shall comprise no more than 15% of the staff employed on the job during normal production periods. Where skilled workmen, artisans and operators are not available locally, they shall be employed from non-local sources.
- 2.20.1.3. The Contractor shall make available to the Community Committee specific and relevant information on the available employment; this shall include number of type of jobs, skill requirements for the jobs, duration of the jobs, remuneration scales, hours of work, conditions of work, procedures for the application of jobs, procedures for selecting job applicants, and training and certification available on the job.
- 2.20.1.4. The Contractor shall consider personnel from the applicants put forward by the Community Committee and shall consider aptitude, health, previous training and expertise. The Contractor shall as far as possible ensure that the distribution of hired personnel is proportional to the numbers of local applicants from the respective chiefdoms. Shall it not be possible to ensure equal distribution at one selection; the Contractor shall endeavour to correct for the difference at the next selection.
- 2.20.1.5. No casual job seekers outside the construction site shall be selected, unless they are selected by means of the correct process.
- 2.20.1.6. The Contractor shall maintain and submit records of all hiring, including dates of hiring and work commencement, the names and details of the applicants hired, and the chiefdom origins of the hired.

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2.20.1.7. The Contractor shall maintain written records of all discussions with the Community Committee and its sub-committees.

2.20.2. Training

2.20.2.1. The Contractor shall set up a system of certification and/or accreditation related to training, to ensure all the workers have proof of work performed for future job application.

2.20.2.2. The Contractor shall be responsible for the training and supervision of inexperienced workers in accordance with Legal Notice No 67 of 1974 of The Factories, Machinery and Construction Works Act, 1972.

2.20.3. Employment Conditions

2.20.3.1. The Contractor is required to adhere to the wage rates and conditions set out in the Eswatini Regulation of Wages (Building and Construction Industry) Order 1989 (Legal notice No 79 of 1989) and the Wages Act, 1964 (No 16 of 1964) or a superseding legal notice, or the Contractor shall negotiate wage rates, hours of work and conditions with the Commissioner of Labour.

2.20.3.2. The Contractor shall maintain records of time worked, wages paid and training to show compliance.

2.20.3.3. The Contractor shall clearly display on notice boards (on site) the general rates of wages, work hours and conditions of labour.

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3. PART 3 HEALTH AND SAFETY SPECIFICATIONS FOR CONSTRUCTION

3.1. RISK ASSESSMENT

The Contractor shall formally appoint a competent person (in writing) to perform a thorough Risk Assessment of all construction activities before the commencement of any construction work. This risk assessment shall form part of the Health and Safety Plan to be submitted, implemented and maintained by the contractor. The basis for effective mitigation of construction-related health and safety impacts is **Health and Safety Plan (HSP)** for the tendered work. This will form part of the Contractor's proposal and will be subject to review during tender evaluation. A detailed HSP must also be submitted to the Engineer for approval prior to Contractor site mobilization.

The Risk Assessment shall include at least the following: -

- The identification of the risks and hazards to which persons may be exposed to;
- The analysis and evaluation of the identified risks and hazards;
- A documented plan of safe work procedures to mitigate, reduce or control the risks and hazards that have been identified;
- A monitoring plan; and
- A review plan, for post implementation assessment.

Based on the Risk Assessment, the Contractor must develop a set of site-specific Health and Safety rules that will be applied to regulate Health and Safety aspects of the construction activities. The Risk Assessment, together with the site-specific Health and Safety Rules shall be submitted to the Engineer for approval before site mobilization commences.

3.1.1. Review of Risk Assessments

The contractor is to review the Hazard Identification, Risk Assessments and Safe Work Procedures at each Production Planning and Progress Report meeting as the Contract works develop and progress and each time changes are made to the designs, plans and construction methods and processes (monthly). In the event of any change in working circumstances, the Hazard Identification, Risk Assessments and Safe Work Procedures are to be reviewed and updated.

The contractor shall provide the Employer and the Engineer, and all concerned parties with copies of any changes, alterations or amendments brought about by the above.

3.2. LEGAL REQUIREMENTS

All contractors entering into Contract with EWADE shall as a minimum comply with the following: -

- Occupational Health and Safety Act and Regulations (Act 9 of 2001);

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- The Employer and the Engineer shall access and verify the competency of Contractors/persons allowed (authorised) to enter the Contract work area by studying the required Portfolio of Evidence;
- The portfolio of evidence submitted with the tender shall include: -
 - Qualifications and relevant experience of the responsible person;
 - Last 5 similar projects;
 - Valid First Aid certificate;
 - Valid Responsible Person Certificate;
 - Valid certificate of training for confined space entry;
 - Valid certificate of training for firefighting.

3.3. STRUCTURE AND RESPONSIBILITIES

3.3.1. Overall Supervision and Responsibility for Health and Safety

The Employer and the Engineer shall ensure that the Contractor implements and maintains the agreed and approved Health and Safety Plan.

3.3.2. Further (Specific) Supervision Responsibilities for Health and Safety

The Contractor shall appoint designated competent employees and/or other competent persons as per requirement. The appointments shall be in writing and the responsibilities clearly stated together with the period for which the appointment is made.

3.3.3. Designation of Occupational Health and Safety Representatives

The Contractor shall ensure Health and Safety representatives are appointed for every workplace where employees are exposed to risks.

Occupational Health and Safety Representatives shall be designated in writing and the designation must include the area of responsibility of the person and term of the designation.

The Contractor shall ensure that the designated OH&S Representatives conduct an inspection of their respective areas of responsibility using a checklist and report thereon on a daily basis.

3.3.4. Monitoring, Reporting and Review of Health and Safety Performance

The Contractor shall report all incidents to the Engineer and the Employer.

The Contracts Manager/ SHEQ officer shall submit reports regarding all incidents to the Employer on a regular basis.

3.4. TRAINING, AWARENESS AND COMPETENCE

3.4.1. General Induction Training

All persons attending site are to attend a general site induction session presented by the Contractor.

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All persons on the site shall be in possession of documentation/proof that they have undergone general induction training.

The Contractor shall develop project specific induction training based on the Risk Assessments for the Contract work and train all employees and visitors as appropriate.

3.4.2. Other Training

All operators, drivers and users of construction vehicles, mobile plant and other equipment shall be in possession of relevant documentation proving that they have recently undergone training to operate said vehicles, plant and equipment and are competent in the use of the said vehicles, plant and equipment.

3.4.3. Awareness & Promotion

The Contractor shall put in place a strategy to promote sound health and safety awareness and culture. The following are some of the strategies that shall be put in place: -

- Toolbox Talks;
- Posters;
- Competitions;
- Safety Videos; etc.

3.4.4. Competence

The Contractor shall ensure that all appointed staff are competent and that all training required to do the work safely and with minimized risk to health, has been completed before work commences.

The Contractor shall ensure that follow-up and refresher training is conducted as the Contract work progresses and the work situations change.

Records of all training shall be kept on the Health and Safety file for auditing purposes.

3.5. MONITORING, REPORTING AND CORRECTIVE ACTION

3.5.1. Bi-weekly Audits by Employer

The Employer, through its Environmental Health Officer, will conduct Audits to comply with relevant legislation to ensure that the Contractor has implemented and is maintaining the agreed and approved Health and Safety Plan.

The Contractor shall conduct his own internal audits on a regular basis to verify compliance with his own Health and Safety Plan.

The Contractor's Occupational Health and Safety Officers shall conduct inspections of their areas of responsibility and report thereon to their supervisor.

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Part 1: Section 5 Eligible Countries

All the outcomes of the above-mentioned inspections shall be in writing, reviewed, endorsed and placed in the official Health and Safety File.

3.6. INCIDENT REPORTING AND INVESTIGATION

3.6.1. Reporting of Accidents and Incidents

The Contractor shall report all incidents where: -

- A major incident or accident has occurred;
- The health or safety of any person has been endangered;
- Whenever a dangerous substance has been spilled;
- Whenever the uncontrolled release of any substance under pressure has taken place;
- Machinery or any part of machinery fractured or failed resulting in flying, falling or uncontrolled moving objects;
- Machinery ran out of control.

All such reports shall be made in writing to the Engineer and the Employer's Environmental Health Officer within two days of the incident having taken place.

The Contractor Shall provide The Employer with copies of all internal and external accident/incident investigations.

3.6.2. Accident and Incident Investigation

The Contractor shall be responsible for the investigation of all accidents/incidents where employees and non-employees were injured to the extent that he/she/they had to be referred for medical treatment doctor, hospital or clinic and the results of the investigation shall be entered into the Accident/Incident Register.

The Contractor shall be responsible for the investigation of all minor, non-injury incidents and near misses e.g. oil spillages.

The Employer reserves the right carry out its own internal investigation into an incident or call for an independent external investigation.

3.7. OPERATIONAL CONTROL

3.7.1. Emergency Preparedness, Contingency Planning and Response

The Contractor shall appoint a competent person to act as Emergency Coordinator.

The Contractor shall conduct an emergency identification exercise and establish what emergencies could possibly develop on site.

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Part 1: Section 5 Eligible Countries

The Contractor shall develop detailed contingency plans and emergency procedures for such emergencies.

3.7.2. First Aid

The Contractor shall provide appropriate First Aid equipment and shall have qualified First Aiders on site, as required by the Occupational Health & Safety Act.

3.7.3. Security

The Contractor shall develop, implement and maintain Security and Site Access Control Rules and procedures throughout the construction period.

Access control shall include the rule that non-employees will not be allowed on site unaccompanied.

3.7.4. Construction Vehicles and Mobile Plant (CV&MP)

All construction vehicles and mobile plant shall be inspected by the Contractor prior to being allowed onto a project work front.

The suppliers of hired vehicles, plant and equipment shall be required to comply with this specification as well as the Occupational Health and Safety Act and Regulations.

3.7.5. Good Housekeeping

The Contractor shall ensure that good housekeeping practices are implemented so that:

- Every workplace is kept clean, orderly and free of tools and materials that are not required for the work being done;
- Materials and equipment are properly secured and stored;
- All scrap, waste and debris are removed from site regularly and disposed of in a safe and responsible manner.
- Construction sites are fenced off to prevent unauthorized entry by persons and/or animals.

3.7.6. Eating, Changing and Toilet Facilities

The Contractor shall provide adequate eating and ablution facilities for its employees: -

- Eating facilities shall be provided in a location that is adequately sheltered from natural elements;
- Adequate changing, and toilet facilities shall be provided for both sexes at all work fronts;
- At least 1 No. shower per 15 workers and 1 No. toilet per 20 workers shall be provided.
- Chemical toilets shall be put in place at all work fronts.

3.7.7. Personal & Other Protective Equipment (PPE)

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Part 1: Section 5 Eligible Countries

The Contractor shall identify all workplace hazards and shall endeavor to eliminate them wherever possible.

Where this is not possible, suitable steps shall be to protect workers from these hazards.

The Contractor shall inform all employees of the health and safety hazards they are likely to encounter in their workplace and shall issue them with suitable personal protective equipment (PPE) to protect them from these hazards.

The Contractor shall maintain the equipment and replace it if it no longer serves its protective purpose.

The Contractor shall instruct and train all employees in the use of their PPE. The Contractor's Employees do not have the right to refuse to use/wear safety equipment.

3.7.8. Public Health & Safety

The Contractor is responsible for ensuring that all non-employees affected by the construction work, such as, visitors, the benefitting and surrounding community and passersby, are made aware of dangers likely to arise from the construction work, as well as the precautionary measures to be observed to avoid or minimize these dangers.

Appropriate signage shall be posted to this effect across the site and all employees on site shall be instructed to ensure that non-employees are protected at all times.

All authorized non-employees entering the site must receive induction into the hazards and risks and the control measures.

All non-authorised persons shall be immediately directed off the site.

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ANNEXURES

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Part 1: Section 5 Eligible Countries

Annex 1. List of Eswatini environmental and related legislation with clauses and conditions applicable to construction sites and activities

- 1 The Water Act, 2003 (Act No 5 of 2003)
- 2 The Environment Management Act, 2002
- 3 The Flora Protection Act, 2001
- 4 Environment Assessment Regulations of 2020
- 5 The Waste Regulations, 2000
- 6 The Water Pollution Control Regulations, 2010
- 7 The Air Pollution Control Regulations, 2010
- 8 Eswatini Environment Authority Act, 1992
- 9 The Human Settlements Authority Act, 1988 as amended in 1992 (Act No 13 of 1992)
- 10 The Game Act (Amended), 1991
- 11 The Protection of Fresh Water Fish Act, 1938
- 12 The Wild Birds Protection Act, 1914
- 13 The Natural Resources Act, 1974
- 14 The Employment Act of 1980
- 15 The Draft Eswatini Public Health Bill, 1999
- 16 The Energy Regulatory Act, 2007 (Act No.2 of 2007)
- 17 The Plant Control Act of 1981
- 18 The Occupational Health and Safety Act, 2001
- 19 The Public Health Act, 1969
- 20 The Factories, Machinery and Constitution Works Act, 1972

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Part 1: Section 5 Eligible Countries

Annex 2. Eswatini effluent standards (from Schedule Two of Regulations 2 and 4 of the Water Pollution Control Regulations 1999).

<i>Parameter/Substance</i>	<i>Units of Measurement</i>	<i>Limit</i>
Colour	mg/ℓ Pt Scale	20 maximum
Odour/Taste		not detectable after being diluted 3-fold
pH	pH units	minimum of 5.5 and a maximum of 9.5
Conductivity	ms/m	20 maximum
Dissolved oxygen	% saturation	minimum of 75
Temperature	degrees C	maximum of 35
Chemical oxygen demand	mgO ₂ /ℓ	75 maximum
Biological oxygen demand	mgO ₂ /ℓ	10 maximum
Total dissolved solids	mg/ℓ	maximum of 500 above intake water
Suspended solids	mg/ℓ	25 maximum
Sodium content	mg/ℓ	maximum of 50 above intake water
Soap, oil or grease	mg/ℓ	100 maximum
Residual chlorine	mg/ℓ	0.1 maximum
Free and saline ammonia	mg/ℓ	10.0 maximum
Arsenic	mg/ℓ	0.5 maximum
Boron	mg/ℓ	1.0 maximum
Total chromium	mg/ℓ	0.5 maximum
Copper	mg/ℓ	1.0 maximum
Phenolic compounds (as phenol)	mg/ℓ	0.1 maximum
Phosphates	mg/ℓ	2.0 maximum
Lead	mg/ℓ	0.1 maximum
Cyanides	mg/ℓ	0.5 maximum
Sulphides	mg/ℓ	1.0 maximum

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Part 1: Section 5 Eligible Countries

Fluorides	mg/ℓ	1.0 maximum
<i>Parameter/Substance</i>	<i>Units of Measurement</i>	<i>Limit</i>
Zinc	mg/ℓ	5.0 maximum
Cadmium	mg/ℓ	0.05 maximum
Mercury	mg/ℓ	0.02 maximum
Total faecal coliforms	per 100 mℓ	10 maximum

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Part 1: Section 5 Eligible Countries

Annex 3. Eswatini water quality standards (from Schedule One of Regulations 2 and 3 of the Water Pollution Control Regulations (1999))

<i>Physic-chemical parameters</i>	<i>Standard</i>
Dissolved oxygen	minimum of 4 mg/ℓ (surface water only)
pH	minimum 6.5 and maximum 8.5
EC	1,800 µ/cm maximum
Turbidity	5 Nephelometric units maximum
Hardness	1,000 mg/ℓ maximum (as calcium carbonate)
Chemical oxygen demand	10 mg oxygen/ℓ maximum
Biological oxygen demand	5 mg oxygen/ℓ maximum
Anions	
Nitrate	10 mg N/ℓ (as nitrogen) maximum
Nitrite	0.2-3 mg N/ℓ (as nitrogen) maximum
Ammonia	0.6 mg N/ℓ maximum
Fluoride	1.0 mg/ℓ maximum
Cations	
Iron	1 mg/ℓ maximum
Manganese	0.5 mg/ℓ maximum
Mercury	0.001 mg/ℓ maximum
Cadmium	0.003 mg/ℓ maximum
Aluminium	0.2 mg/ℓ maximum
Microbiological Parameters	
Total Coliforms	1 – 10 per 100 mℓ maximum
Faecal Coliforms	1 – 10 per 100 mℓ maximum

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Annex 4.

Hiring Protocol

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Part 1: Section 5 Eligible Countries

1. Introduction:

This is a procedure to be used by contractors doing work under EWADE Projects and the Project Employment Committee (PEC). The contractors are those who are contractually expected to hire local residents as part of their labour force. The Contractor is to enforce same procedure to be adhered to by all Sub-contractors.

2. Objective:

This procedure is intended to manage a fair, transparent and equitable distribution of job opportunities between the four chiefdoms under MNWAP (Hhohh'emuva, Manyiseni, KaLiba, Lushini, Nsingizini, Nyatsini, Qomintaba, and Ndushulweni).

3. Nature:

This procedure is an operational tool / working agreement and does not change terms of any other existing contracts that the parties may have with each other.

4. Amendment of Procedure:

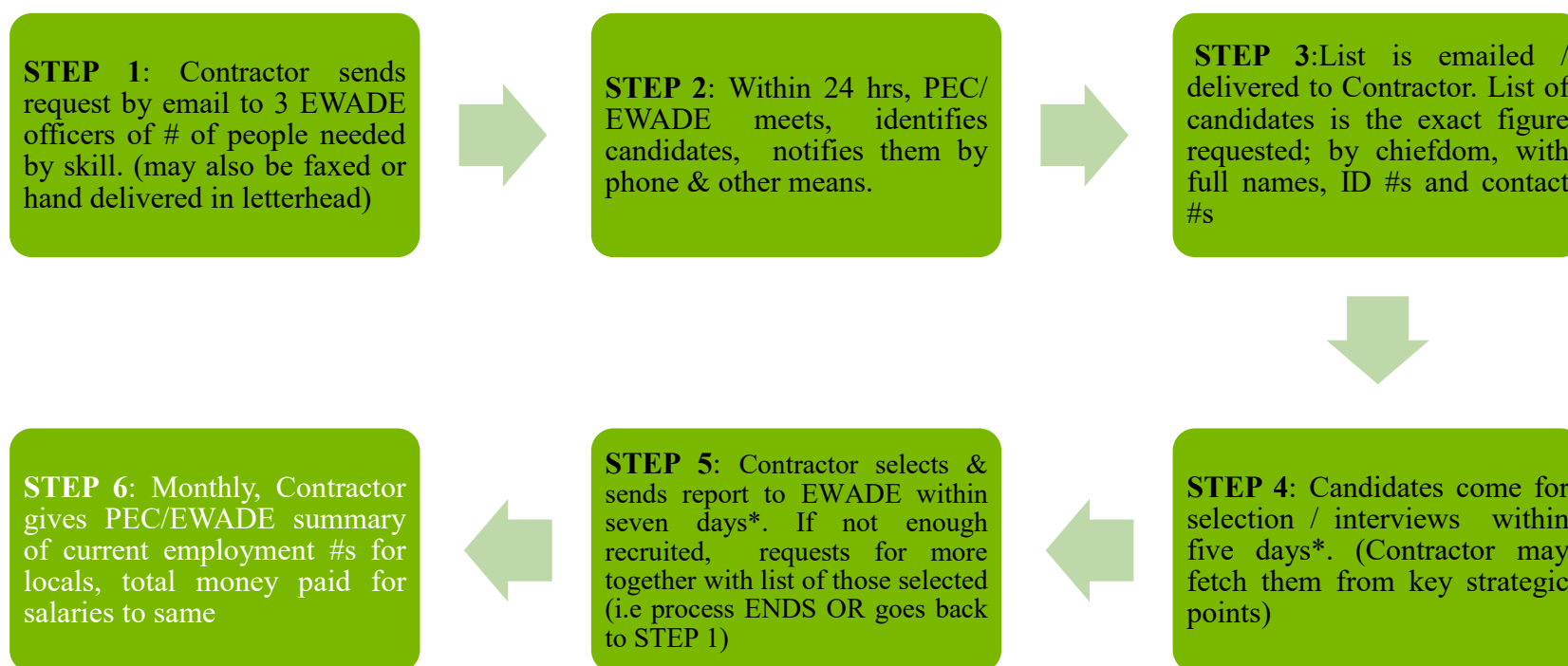
The procedure may be amended by a written agreement between the parties, where such changes clearly demonstrate an enhancement of the objective of this procedure.

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5. THE LOCALS' HIRING PROCEDURE:



Note: * - The days stipulated exclude Saturday & Sunday, and/or public holidays.

Summary:

- 5-step process
- Takes not more than five days (minimum 72 hrs) from receipt of request for labour to candidates showing up for selection
- Notification of candidates before list is sent will ensure candidates show up for recruitment. Also, an extra, say by 30% will minimize chances of Contractor not getting enough from the submitted candidates;
- A seven-day provision for the confirmation of hiring by Contractor is made, as process may take several days;
- (In the case of a contractor installing a potable water scheme, only people directly benefitting from the scheme are to be hired. This is still to be done through the PEC, if still in existence);
- Notification of candidates for employment will be done using the many channels available, but use of TA or Bandlancane should be avoided. Use of CDC structures encouraged.

Notes on Step 6: Monthly Employment Report

- ✓ The monthly report reflecting current status of employment of locals will contain basic personal details of the locals employed, as well as the name of the chiefdom, chief's code and section (sigodzi) where the employee comes from.
- ✓ The format and details of this report will be discussed between EWADE's Engineering Unit and the Contractor at the beginning of the contract;
- ✓ The Contractor submits the report to EWADE, who then forwards it to the PEC;

6. DISPUTE REPORTING & RESOLUTION PROCEDURE

As this procedure is to manage a fair and transparent process of hiring locals, it is appreciated that it may not completely remove grievances from the affected communities. This section provides the reporting of such grievances from the communities regarding employment issues. The most important aspect of reporting any grievance is that the one reporting the grievance must have and avail to the relevant party **ALL FACTS** relating to the matter before reporting.

6.1: Role of the Community

The general members of the community are expected to report any employment related grievance to the CDC, who will then report and seek clarity from EWADE. When reporting the issues, both the community and CDC must get facts, so that the matter can be speedily rectified.

6.2 Role of a Community Liaison Officer (CLO)

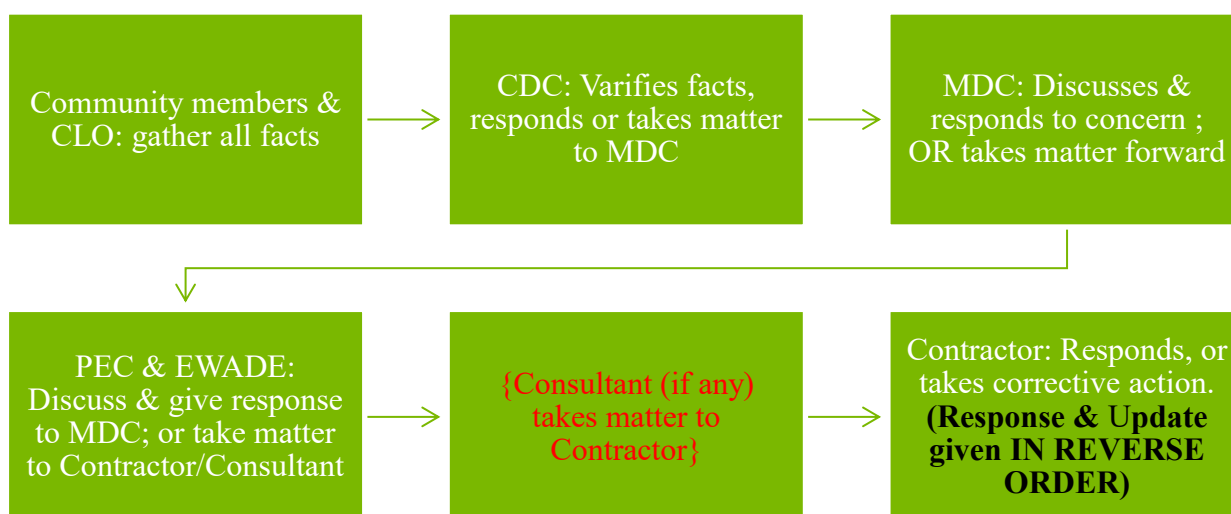
It is anticipated that some of works' contracts will provide for the hiring of a Community Liaison Officer (CLO), whose main responsibility is handling disputes arising from the Contractor's work in the community, before they become social conflicts. These could be having a negative effect on the Contractor or the community, and these would be a variety of issues, including employment of locals. In the case of employment anomalies, the CLO would be expected to report this to the respective CDC, who will then action it through their PEC representatives.

The Grievance Reporting Process:

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To note:

Since the CLO, CDC, MDC & PEC are all community representative structures, these can be used as one, represented by the PEC. That is; community may report employment grievance to PEC, who will then discuss matter, and if need be, report to EWADE. EWADE may give clarifications or report matter Contractor (or Consultant where applicable). It is important to note that the community, CDC, PEC or CLO are not to report the grievance directly to the Contractor, without the involvement of EWADE, who would be having a contract with the Contractor (employer)

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Drawings**List of specific drawings**

NO	TITLE	DRAWING NO
1.	Bongani Mthimkhulu-Split 1, Mzwandile Mthimkhulu	BONMTHI-0742-01-MZWA
2.	Bongani Mthimkhulu	BONMTHI-0742-01
3.	Busisiwe Ntombazanyana Tfwala-Split 2, Mfanasibili Tfwala	MFANASIBILITFWALA-0742-01_1
4.	Busisiwe Ntombazanyana Tfwala	BUSISIWETFWALA-0742-01_4
5.	Busisiwe Ntombazanyana Tfwala	BUSISIWETFWALA-0742-02_4
6.	Busisiwe Ntombazanyana Tfwala	BUSISIWETFWALA-0742-03_4
7.	Busisiwe Ntombazanyana Tfwala	BUSISIWETFWALA-0742-04_4
8.	Fikile Thwala	FIKTFWALA-0742-01
9.	Fikile Thwala	FIKTFWALA-0742-01
10.	Lushini Trading Store	MFANASIBILITFWALA-0742-01_1
11.	Majona Simelane-Split1 Sizwe	MAJONASIMELANE-0742-01_1
12.	Majona Simelane-Split1, Ndumiso, Phindile, Teboho	NDUMISOPHINDILETEBOHO-0742-01_4
13.	Majona Simelane-Split1, Ndumiso, Phindile, Teboho	NDUMISOPHINDILETEBOHO-0742-02_4
14.	Majona Simelane-Split1, Ndumiso, Phindile, Teboho	NDUMISOPHINDILETEBOHO-0742-03_4
15.	Majona Simelane-Split1, Ndumiso, Phindile, Teboho	NDUMISOPHINDILETEBOHO-0742-04_4
16.	Majona Simelane-Split2, Sakhi	SAKHI-0742-01_1
17.	Pat Khahlamba Ndwandwe	PATKNDWA-0742-01
18.	Simphiwe Mlayini Zwane	SIPZWANE-0742-01
19.	Sipho Simon Mthimkhulu	SSMTHIMK-0742-01
20.	Sipho Simon Mthimkhulu	SSMTHIMK-0742-01
21.	Thobile Mkhumane-Mpendulo Mkhumane	THOMKHU-MPE-0742-01
22.	Thobile Mkhumane-	JAPGINI-0742-01
23.	Thobile Mkhumane-	THOMKHU-0742-01
24.	Thobile Mkhumane-	THOMKHU-0742-01
25.	Thobile Mkhumane-	THOMKHU-0742-01
26.	Thobile Mkhumane-	THOMKHU-0742-01
27.	Vusi Patrick Simelane	MFANASIBILITFWALA-0742-01_4
28.	Vusi Patrick Simelane	MFANASIBILITFWALA-0742-02_4
29.	Vusi Patrick Simelane	MFANASIBILITFWALA-0742-03_4
30.	Bafana Dougles Ginindze (LaMhlanga)	BDGININDZA-0742-01
31.	Bafana Dougles Ginindze (Siyabonga)	MDGININDZA -0742-01
32.	Bafana Dougles Ginindze (Lilawu)	MDGININDZA-0742-01
33.	Bafana Dougles Ginindze (Intsanga)	MDGININDZA-0742-01
34.	Bafana Dougles Ginindze (Kitchen)	MDGININDZA-0742-01
35.	Bafana Dougles Ginindze KaGogo	MDGININDZA-0742-01
36.		

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Part 2: Section 6 Statement of Requirements

37.	Manyazini Richard Ndwandwe Split 1 (Sikhumbuzo)	MRN/SK-0742-01
38.	Manyazini Richard Ndwandwe -Split 2 (Lihle)	LIHLE-00-01_0
39.	Manyazini Richard Ndwandwe -Split 3 (Mandela)	MRN/MA-0742-01
40.	Manyazini Richard Ndwandwe -Split 4 (Tengetile)	MRN/MA-0742-01
41.	Manyazini Richard Ndwandwe - (Bheki)	MRN/BH-0742-01
42.	Manyazini Richard Ndwandwe (Muzi)	MRN/MZ-0742-01
43.	Manyazini Richard Ndwandwe	MRN-0742-01
44.	Fence	EWADE0-0742-10
45.	Tank Stand	EWADE-0742-20
46.	VIP Toilet	EWADE-0742-30

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Activity Schedule/ Bills of Quantities

Activity Schedule

Date: _____

Procurement Reference No.: _____

Name of Contractor: _____

Item number	Activity Description	Amount in Lilangeni

Signed: _____

Name: _____

In the capacity of _____

Duly authorised to sign the Tender for and on behalf of: _____

Dated on _____ day of _____, _____ [insert date of signing]

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Part 2: Section 6 Statement of Requirements

Bill of Quantities

Date: _____

Procurement Reference No.: EWADE/0742

Name of Contractor: _____

Item number	Description of Works	Unit	Quantity	Rate	Amount
		Grand Total:			

Signed: _____

Name: _____

In the capacity of _____

Duly authorised to sign the Tender for and on behalf of:

_____ Dated on _____ day of

_____, _____

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of 9 Chalaza Resettled Homesteads		
EWADE/0742		
SUMMARY BILL OF QUANTITIES		
SECTION	DESCRIPTION	TOTAL
A1.1	PRELIMINARY AND GENERAL ITEMS	
B1.1	Bongani Mthimkhulu	
B1.2	Split-Bongani Mthimkhulu-Mzwandile	
B2.1	Busisiwe Ntombazayana Tfwala -House No.1	
B2.2	Busisiwe Ntombazayana Tfwala -House No.2	
B2.3	Busisiwe Ntombazayana Tfwala -House No.3	
B2.4	Busisiwe Ntombazayana Tfwala -House No.4	
B2.5	Split - Busisiwe Ntombazayana Tfwala -Mfanasibili	
B3.1	Fikile Thwala - House No.1	
B3.2	Fikile Thwala - House No.2	
B4.1	Thobile Mkumane - House No.1	
B4.2	Thobile Mkumane - House No.2	
B4.3	Thobile Mkumane - House No.3	
B4.4	Thobile Mkumane - House No.4	
B4.5	Thobile Mkumane - House No.5	
B5.1	Siphiwe Mlayini Zwane	
B6.1	Sipho Simono Mthimkhulu - House No.1	
B6.2	Sipho Simono Mthimkhulu - House No.2	
B7.1	Vusi Patrick Simelane- House No.1	
B7.2	Vusi Patrick Simelane- House No.2	
B7.3	Vusi Patrick Simelane- House No.3	
B8.1	Majona Simelane - Sizwe	

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Part 2: Section 6 Statement of Requirements

B8.1	Split 1 - Majona Simelane -Ndumiso- House No.1
B8.2	Split 1 - Majona Simelane -Ndumiso - House No.2
B8.3	Split 1 - Majona Simelane -Ndumiso - House No.3
B8.4	Split 1 - Majona Simelane -Ndumiso - House No.4
B8.5	Split 2 - Majona Simelane - Sakhi
B9.1	Pat Khahlama Ndwandwe
C1.1	Fencing
D1.1	VIP Toilets
E1.1	Day-Works
	TOTAL VALUE OF WORK
	<u>Add</u> 5 % CONTINGENCIES
	SUB-TOTAL (A)
	<u>Add</u> CONSTRUCTION LEVY AT () %
	SUB-TOTAL (C)
	<u>Add</u> 15 % VALUE ADDED TAX (V.A.T)
Total Bid Price	

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Part 2: Section 6 Statement of Requirements

EWADE/0742 - The Construction of Chalaza Resettled Homesteads					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (SZL)	AMOUNT (SZL)
	SECTION A: PRELIMINARY AND GENERAL ITEMS				
A1.1	Fixed Charge Items				
1,1	Contractual requirements	Sum	1		
1,2	Site establishment.	Sum	1		
1,2	Facilities for Sub-Contractors	Sum	1		
1,4	All other fixed charge obligations	Sum	1		
1,5	Removal of site establishment	Sum	1		
A1.2	Time Related Items (Time related items will be paid for over the duration of the Contract in the ratio of work done to date to the total value of work to be executed in the sections excluding Section A. The final amount to be paid to be equal to 100%)				
A1.2.1	Contractual requirements	Sum	1		
A1.2.2	Facilities for Sub-Contractors	Sum	1		
A1.2.3	Supervision for the duration of construction	Sum	1		
A1.2.4	Company and office overhead costs for the duration of the Contract	Sum	1		
A1.2.5	Any other value-related obligations	Sum	1		
A1.3	Sums Stated Provisionally by the Employer				
A1.3.1	Provisional Sum: For testing ordered by the Employer and carried out by an independent laboratory or facility. (Note: All costs in connection with the sampling and testing of concrete shall be included in the Tenderer's rate for Concrete)	Prov. Sum	1	20 000,00	20 000,00
A1.3.2	Overhead charges and profit on Item A3.1 above	%	20 000,00		
A1.4	Other Preliminary and General Items				
A1.4.1	Sum for as built drawings and Operations & Maintenance Manual (3 x A1 Copies & Electronic Copy (Dwgs)	Sum	1		
A1.4.2	Prov. Sum for EEC connection and other charges for the supply of electricity to all the structures.	Prov. Sum	1	350 000,00	350 000,00
A1.4.3	Allow for overhead charges and profit on item A4.2 above	%	350 000,00		
Total Carried To Summary					

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Part 2: Section 6 Statement of Requirements

<u>Bongani Mthimkhulu</u>					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (SZL)	AMOUNT (SZL)
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3 600,00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	18,76		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1,13		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	17,16		
B2.2	50mm thick clean river sand blinding	m ³	0,86		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	17,16		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	11,26		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	17,16		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	9,38		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1,72		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	2,25		
B5.1.3	40mm thick screed to top of slab	m ³	0,69		
B5.1.4	Topping smooth finish	m ²	17,16		
B6.0	Structural wall				

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Part 2: Section 6 Statement of Requirements

B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	18,76		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	51,55		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1,00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1,00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	42,69		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	34,92		
B8.0	Painting				
B8.1	Base/first coat	m ²	155,22		
B8.1	Paint Fibre seal on external wall	m ²	34,92		
B8.2	Paint waterproofing topcoat on internal wall	m ²	42,69		

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0,70		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	24,70		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	11,11		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets, 0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	17,16		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1,00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	4,40		
B12.3	Galvanised IBR Closure	m	-		

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Part 2: Section 6 Statement of Requirements

B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1,00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2,00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinthes, screws and lockset c/w vanish.	No.	1,00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1,00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1,00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0,70		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all necessary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to EWADE as per engineers specification.	Sum	1,00		
	TOTAL CARRIED TO SUMMARY				

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Part 2: Section 6 Statement of Requirements

Split-Bongani Mthimkhulu-Mzwandile

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (SZL)	AMOUNT (SZL)
B1.0	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3 600,00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	21,25		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1,28		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	21,00		
B2.2	50mm thick clean river sand blinding	m ³	1,05		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	21,00		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	12,75		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	21,00		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	10,63		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	2,10		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	2,55		
B5.1.3	40mm thick screed to top of slab	m ³	0,84		
B5.1.4	Topping smooth finish	m ²	21,00		
B6.0	Structural wall				
B6.1	Blockwork				

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Part 2: Section 6 Statement of Requirements

B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	21,25		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	60,21		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1,00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1,00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	49,04		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	55,45		
B8.0	Painting				
B8.1	Base/first coat	m ²	208,98		
B8.1	Paint Fibre seal on external wall	m ²	55,45		
B8.2	Paint waterproofing topcoat on internal wall	m ²	49,04		
B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0,80		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	27,98		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	12,58		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets, 0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	21,00		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1,00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	4,70		

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Part 2: Section 6 Statement of Requirements

B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1,00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	1,00		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2,00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinethes, screws and lockset c/w vanish.	No.	1,00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	1,00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	2,00		
B16.0	Gutter				
B16.1	Supply and Install PVC HalfRound gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1,00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0,80		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	1,00		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	1,00		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all necessary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to EWAVE as per engineers' specification.	Sum	1,00		
TOTAL CARRIED TO SUMMARY					-

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Part 2: Section 6 Statement of Requirements

	Busisiwe Ntombazayana Tfwala -House No.1				
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (SZL)	AMOUNT (SZL)
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3 600,00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	20,49		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1,23		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	17,43		
B2.2	50mm thick clean river sand blinding	m ³	0,87		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	17,43		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	12,29		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	17,43		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	10,25		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1,74		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	2,46		
B5.1.3	40mm thick screed to top of slab	m ³	0,70		
B5.1.4	Topping smooth finish	m ²	17,43		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	20,49		

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Part 2: Section 6 Statement of Requirements

B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	60,64		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1,00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1,00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	74,59		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	53,29		
B8.0	Painting				
B8.1	Base/first coat	m ²	255,76		
B8.1	Paint Fibre seal on external wall	m ²	53,29		
B8.2	Paint waterproofing topcoat on internal wall	m ²	74,59		
B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0,77		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	26,98		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	12,13		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets, 0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	17,43		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1,00		
	Supply and Install Door Awning to door as shown on drawing.	No.	1,00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	5,77		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				

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Part 2: Section 6 Statement of Requirements

B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1,00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	4,00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door, hinges, screws and lockset c/w vanish.	No.	1,00		
B15.2	Supply and installation of Catafoil Door internal door, hinges, screws and lock set.	No.	1,00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	2,00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all necessary fittings to engineers specification including downpipes and	Sum	1,00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0,79		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all necessary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to EWADE as per engineers specification.	Sum	1,00		
TOTAL CARRIED TO SUMMARY					-

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Part 2: Section 6 Statement of Requirements

	Ntombazayana Tfwala -House No.2				
ITEM	DESCRIPTION	UNIT	QTY	RATE (SZL)	AMOUNT (SZL)
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3 600,00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	14,60		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0,88		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	14,43		
B2.2	50mm thick clean river sand blinding	m ³	0,72		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	14,43		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	8,76		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	14,43		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	7,30		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1,44		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1,75		

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Part 2: Section 6 Statement of Requirements

B5.1.3	40mm thick screed to top of slab	m ³	0,58		
B5.1.4	Topping smooth finish	m ²	14,43		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	14,60		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	43,56		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1,00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	43,50		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	45,43		
B8.0	Painting				
B8.1	Base/first coat	m ²	177,85		
B8.1	Paint Fibre seal on external wall	m ²	45,43		
B8.2	Paint waterproofing topcoat on internal wall	m ²	43,50		
B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0,55		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	19,22		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	8,64		
B11.0	ROOF WORKS				

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Part 2: Section 6 Statement of Requirements

B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	14,43		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1,00		
	Supply and Install Door Awning to door as shown on drawing.	No.	1,00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	3,60		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1,00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2,00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinthes, screws and lockset c/w vanish.	No.	1,00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				

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Part 2: Section 6 Statement of Requirements

B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1,00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all necessary fittings to engineers specification including downpipes and	Sum	1,00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0,62		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all necessary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1,00		
	TOTAL CARRIED TO SUMMARY				-

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Ntombazayana Tfwala - House No.3

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	13.26		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0.80		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	12.00		
B2.2	50mm thick clean river sand blinding	m ³	0.86		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	12.00		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	7.96		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	12.00		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	6.63		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.20		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1.59		
B5.1.3	40mm thick screed to top of slab	m ³	0.48		
B5.1.4	Topping smooth finish	m ²	12.00		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	13.26		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	39.43		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	39.33		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	41.29		
B8.0	Painting				
B8.1	Base/first coat	m ²	161.24		
B8.1	Paint Fibre seal on external wall	m ²	41.29		
B8.2	Paint waterproofing topcoat on internal wall	m ²	39.33		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.50		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	17.46		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	7.85		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	12.00		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
	Supply and Install Door Awning to door as shown on drawing.	No.	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	3.23		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B11.1.2		No.	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.50		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Busisiwe House No.4

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	16.82		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.01		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	13.13		
B2.2	50mm thick clean river sand blinding	m ³	0.66		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	13.13		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	10.09		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	13.13		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	8.41		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.31		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	2.02		
B5.1.3	40mm thick screed to top of slab	m ³	0.53		
B5.1.4	Topping smooth finish	m ²	13.13		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	16.82		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	45.65		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	2.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	45.46		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	45.46		
B8.0	Painting				
B8.1	Base/first coat	m ²	181.84		
B8.1	Paint Fibre seal on external wall	m ²	45.46		
B8.2	Paint waterproofing topcoat on internal wall	m ²	45.46		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.63		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	22.15		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	9.96		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality Rondavel Roof tiles sheets, fixed to timber brandering (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	Sum	1.00		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Harvey tiles round cap Ingcongwane (black)	No.	1.00		
B12.2	IBR flushing	m	-		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply Design and Installation of Rondavel circular roof frame with SABS timber branerings (38mm*38mm), rafters (114mm*38mm) on 114mm*38mm SABS Timber wall plate c/w ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	5.00		
B14.4	TD7	No.	-		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hincthes, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.63		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
	TOTAL CARRIED TO SUMMARY				

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Fikile Thwala House No.1

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	33.47		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	2.01		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	31.23		
B2.2	50mm thick clean river sand blinding	m ³	1.56		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	31.23		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	20.08		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	31.23		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	16.74		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	3.12		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	4.02		
B5.1.3	40mm thick screed to top of slab	m ³	1.25		
B5.1.4	Topping smooth finish	m ²	31.23		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	33.47		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	91.36		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	92.77		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	73.20		
B8.0	Painting				
B8.1	Base/first coat	m ²	331.93		
B8.1	Paint Fibre seal on external wall	m ²	73.20		
B8.2	Paint waterproofing topcoat on internal wall	m ²	92.77		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	1.26		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	44.07		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	19.81		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	31.23		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	7.09		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	1.00		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	4.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	1.00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.95		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	1.00		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	1.00		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Fikile Thwala House					
No.2					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	13.26		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0.80		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	12.00		
B2.2	50mm thick clean river sand blinding	m ³	0.60		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	12.00		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	7.96		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	12.00		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	6.63		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.20		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1.59		
B5.1.3	40mm thick screed to top of slab	m ³	0.48		
B5.1.4	Topping smooth finish	m ²	12.00		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	13.26		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	39.43		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	39.33		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	41.29		
B8.0	Painting				
B8.1	Base/first coat	m ²	161.24		
B8.1	Paint Fibre seal on external wall	m ²	41.29		
B8.2	Paint waterproofing topcoat on internal wall	m ²	39.33		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.50		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	17.46		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	7.85		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	12.00		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
	Supply and Install Door Awning to door as shown on drawing.	No.	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	3.23		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.50		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads -Majona Simelane					
<u>Sizwe</u>					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	24.60		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.48		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	21.20		
B2.2	50mm thick clean river sand blinding	m ³	1.06		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	21.20		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	14.76		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	21.20		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	12.30		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	2.12		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	2.95		
B5.1.3	40mm thick screed to top of slab	m ³	0.85		
B5.1.4	Topping smooth finish	m ²	21.20		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	24.60		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	80.16		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	71.42		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	78.30		
B8.0	Painting				
B8.1	Base/first coat	m ²	299.44		
B8.1	Paint Fibre seal on external wall	m ²	78.30		
B8.2	Paint waterproofing topcoat on internal wall	m ²	71.42		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.92		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	32.39		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	14.56		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	21.20		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	5.00		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	1.00		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	1.00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	2.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.92		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	1.00		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	1.00		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads -Majona Simelane					
<u>Ndumiso No.1</u>					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	30.64		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.84		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	29.40		
B2.2	50mm thick clean river sand blinding	m ³	1.47		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	29.40		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	18.38		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	29.40		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	15.32		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	2.94		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	3.68		
B5.1.3	40mm thick screed to top of slab	m ³	1.18		
B5.1.4	Topping smooth finish	m ²	29.40		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	30.64		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	94.23		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	2.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	95.48		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	77.42		
B8.0	Painting				
B8.1	Base/first coat	m ²	345.80		
B8.1	Paint Fibre seal on external wall	m ²	77.42		
B8.2	Paint waterproofing topcoat on internal wall	m ²	95.48		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	1.15		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	40.34		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	18.14		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	29.40		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	7.15		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufactors specification on 114mm*38mm SABS Timber	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	1.00		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	4.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	2.00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	3.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	1.15		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	1.00		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	1.00		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Majona Simelane -Ndumiso					
House No.2					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	18.20		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.09		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	16.81		
B2.2	50mm thick clean river sand blinding	m ³	0.84		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	16.81		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	10.92		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	16.81		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	9.10		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.68		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	2.18		
B5.1.3	40mm thick screed to top of slab	m ³	0.67		
B5.1.4	Topping smooth finish	m ²	16.81		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	18.20		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	59.40		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	56.50		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	59.46		
B8.0	Painting				
B8.1	Base/first coat	m ²	231.92		
B8.1	Paint Fibre seal on external wall	m ²	59.46		
B8.2	Paint waterproofing topcoat on internal wall	m ²	56.50		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.68		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	23.96		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	10.77		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	16.81		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	3.80		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.68		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum			
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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Majona Simelane Ndumiso					
House No.3					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	16.75		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.01		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	14.20		
B2.2	50mm thick clean river sand blinding	m ³	0.71		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	14.20		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	10.05		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	14.20		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	8.38		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.42		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	2.01		
B5.1.3	40mm thick screed to top of slab	m ³	0.57		
B5.1.4	Topping smooth finish	m ²	14.20		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	16.75		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	54.37		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	46.37		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	54.84		
B8.0	Painting				
B8.1	Base/first coat	m ²	202.41		
B8.1	Paint Fibre seal on external wall	m ²	54.84		
B8.2	Paint waterproofing topcoat on internal wall	m ²	46.37		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.63		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	22.05		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	9.92		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	14.20		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	3.80		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hincthes, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.64		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum			
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Majona Simelane Ndumiso					
House No.4					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	18.19		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.09		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	16.85		
B2.2	50mm thick clean river sand blinding	m ³	0.84		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	16.85		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	10.91		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	16.85		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	9.10		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.69		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	2.18		
B5.1.3	40mm thick screed to top of slab	m ³	0.67		
B5.1.4	Topping smooth finish	m ²	16.85		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	18.19		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	59.08		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	57.04		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	53.13		
B8.0	Painting				
B8.1	Base/first coat	m ²	220.35		
B8.1	Paint Fibre seal on external wall	m ²	53.13		
B8.2	Paint waterproofing topcoat on internal wall	m ²	57.04		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.68		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	23.95		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	10.77		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets, 0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	16.85		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	4.33		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door, hinges, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door, hinges, screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all necessary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.68		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all necessary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum			
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Majona Simelane -Split 2-					
Sakhi					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	23.08		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.38		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	20.67		
B2.2	50mm thick clean river sand blinding	m ³	1.03		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	20.67		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	13.85		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	20.67		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	11.54		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	2.07		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	2.77		
B5.1.3	40mm thick screed to top of slab	m ³	0.83		
B5.1.4	Topping smooth finish	m ²	20.67		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	23.08		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	72.68		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	72.13		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	75.66		
B8.0	Painting				
B8.1	Base/first coat	m ²	295.58		
B8.1	Paint Fibre seal on external wall	m ²	75.66		
B8.2	Paint waterproofing topcoat on internal wall	m ²	72.13		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.87		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	30.39		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	13.66		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	20.67		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	5.14		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	1.00		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hincthes, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	1.00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	2.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.77		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	1.00		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	1.00		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Sipho Simon Mthikhulu House **No.2**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	15.30		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0.92		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	14.04		
B2.2	50mm thick clean river sand blinding	m ³	0.70		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	14.04		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	9.18		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	14.04		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	7.65		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.40		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1.84		
B5.1.3	40mm thick screed to top of slab	m ³	0.56		
B5.1.4	Topping smooth finish	m ²	14.04		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	15.30		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	51.24		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	48.34		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	50.19		
B8.0	Painting				
B8.1	Base/first coat	m ²	197.06		
B8.1	Paint Fibre seal on external wall	m ²	50.19		
B8.2	Paint waterproofing topcoat on internal wall	m ²	48.34		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.57		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	20.15		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	9.06		
B11.0	ROOF WORKS				
B11.1	Steel Sheet				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	14.04		
	Supply and Install Door Awning to door as shown on drawing.	No.	1.00		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	3.60		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all necessary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.64		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all necessary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum			
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Sipho Simon Mthimkhulu					
<u>No.1</u>					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	25.76		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.55		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	21.80		
B2.2	50mm thick clean river sand blinding	m ³	1.09		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	21.80		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	15.46		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	21.80		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	12.88		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	2.18		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	3.09		
B5.1.3	40mm thick screed to top of slab	m ³	0.87		
B5.1.4	Topping smooth finish	m ²	21.80		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	25.76		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	81.44		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	87.47		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	81.75		
B8.0	Painting				
B8.1	Base/first coat	m ²	338.44		
B8.1	Paint Fibre seal on external wall	m ²	81.75		
B8.2	Paint waterproofing topcoat on internal wall	m ²	87.47		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.97		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	33.92		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	15.25		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	21.80		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	5.52		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	4.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hincthes, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	1.00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	2.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.81		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Bongani Mthimkhulu

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	15.50		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0.93		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	14.62		
B2.2	50mm thick clean river sand blinding	m ³	0.73		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	14.62		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	9.30		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	14.62		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	7.75		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.46		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1.86		
B5.1.3	40mm thick screed to top of slab	m ³	0.58		
B5.1.4	Topping smooth finish	m ²	14.62		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	15.50		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	47.78		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	51.83		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	53.94		
B8.0	Painting				
B8.1	Base/first coat	m ²	211.53		
B8.1	Paint Fibre seal on external wall	m ²	53.94		
B8.2	Paint waterproofing topcoat on internal wall	m ²	51.83		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.58		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	20.41		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	9.18		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	14.62		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	4.00		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.65		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Pat Khahlama Ndwandwe

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	29.10		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.75		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	28.90		
B2.2	50mm thick clean river sand blinding	m ³	1.45		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	28.90		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	17.46		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	28.90		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	14.55		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	2.89		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	0.35		
B5.1.3	40mm thick screed to top of slab	m ³	1.16		
B5.1.4	Topping smooth finish	m ²	28.90		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	29.10		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	91.77		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	96.06		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	64.20		
B8.0	Painting				
B8.1	Base/first coat	m ²	320.52		
B8.1	Paint Fibre seal on external wall	m ²	64.20		
B8.2	Paint waterproofing topcoat on internal wall	m ²	96.06		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	1.09		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	38.32		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	17.23		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	28.90		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	6.27		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	4.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	1.00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	2.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	1.09		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Vusi Patrick Simelane House No.1

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	33.33		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure	m ³	2.00		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	28.90		
B2.2	50mm thick clean river sand blinding	m ³	1.45		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	28.90		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	20.00		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	28.90		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	16.67		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	2.89		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	4.00		
B5.1.3	40mm thick screed to top of slab	m ³	1.16		
B5.1.4	Topping smooth finish	m ²	28.90		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	33.33		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	104.74		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	2.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	81.96		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	86.08		
B8.0	Painting				
B8.1	Base/first coat	m ²	336.08		
B8.1	Paint Fibre seal on external wall	m ²	86.08		
B8.2	Paint waterproofing topcoat on internal wall	m ²	81.96		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	1.25		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	43.88		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	19.73		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality Rondavel Roof tiles sheets, fixed to timber branderling (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	Sum	1.00		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Harvey tiles round cap Ingcongwane (black)	No.	1.00		
B12.2	IBR flushing	m	-		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply Design and installation of Rondavel circular roof frame with SABS timber branerings (38mm*38mm), rafters (114mm*38mm) on 114mm*38mm SABS Timber wall plate c/w ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	3.00		
B14.4	TD7	No.	-		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hincthes, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors.	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	1.25		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Vusi Patrick Simelane House No.2

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	47.48		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	2.85		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	64.70		
B2.2	50mm thick clean river sand blinding	m ³	3.24		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	64.70		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	28.49		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	64.70		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	23.74		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	6.47		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	5.70		
B5.1.3	40mm thick screed to top of slab	m ³	2.59		
B5.1.4	Topping smooth finish	m ²	64.70		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	47.48		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	146.22		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	2.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	211.42		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	88.87		
B8.0	Painting				
B8.1	Base/first coat	m ²	600.58		
B8.1	Paint Fibre seal on external wall	m ²	88.87		
B8.2	Paint waterproofing topcoat on internal wall	m ²	211.42		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	1.78		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	62.52		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	28.11		
B11.0	ROOF WORKS				
B11.1	Steel Sheet				
B11.1.1	Supply and fix high quality I.B.R sheets, 0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	64.70		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	12.32		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	1.00		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	5.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door, hinges, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door, hinges, screws and lock set.	No.	3.00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	4.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all necessary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	1.78		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	1.00		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	1.00		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all necessary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads Vusi Patrick Simelane House No.3

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	19.20		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.15		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	18.80		
B2.2	50mm thick clean river sand blinding	m ³	0.94		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	18.80		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	11.52		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	18.80		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	9.60		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.88		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	2.30		
B5.1.3	40mm thick screed to top of slab	m ³	0.75		
B5.1.4	Topping smooth finish	m ²	18.80		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	19.20		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	60.92		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	58.58		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	66.17		
B8.0	Painting				
B8.1	Base/first coat	m ²	249.50		
B8.1	Paint Fibre seal on external wall	m ²	66.17		
B8.2	Paint waterproofing topcoat on internal wall	m ²	58.58		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.72		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	25.28		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	11.37		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets, 0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	18.80		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	4.40		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door, hinges, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door, hinges, screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all necessary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.72		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all necessary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads -Thobile Mkhumane House					
No.1					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	47.02		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	2.82		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	54.27		
B2.2	50mm thick clean river sand blinding	m ³	2.71		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	54.27		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	28.21		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	54.27		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	23.51		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	5.43		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	5.64		
B5.1.3	40mm thick screed to top of slab	m ³	2.17		
B5.1.4	Topping smooth finish	m ²	54.27		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	47.02		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	129.77		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	175.72		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	102.69		
B8.0	Painting				
B8.1	Base/first coat	m ²	556.82		
B8.1	Paint Fibre seal on external wall	m ²	102.69		
B8.2	Paint waterproofing topcoat on internal wall	m ²	175.72		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	1.76		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	61.90		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	27.83		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	54.27		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	8.10		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	1.00		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	5.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hincthes, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	3.00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	4.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	1.76		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	1.00		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	1.00		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads -Thobile Mkhumane House No.2

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	14.40		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0.86		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	12.92		
B2.2	50mm thick clean river sand blinding	m ³	0.65		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	12.92		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	8.64		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	12.92		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	7.20		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.29		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1.73		
B5.1.3	40mm thick screed to top of slab	m ³	0.52		
B5.1.4	Topping smooth finish	m ²	12.92		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	14.40		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	42.09		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	41.01		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	42.09		
B8.0	Painting				
B8.1	Base/first coat	m ²	166.20		
B8.1	Paint Fibre seal on external wall	m ²	42.09		
B8.2	Paint waterproofing topcoat on internal wall	m ²	41.01		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam	m ³	0.54		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	18.96		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	8.52		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured	m ²	12.92		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
	Supply and Install Door Awning to door as shown on drawing.	No.	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	3.50		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessessary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.62		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessessary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum			
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Bongani Mthimkhulu					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	21.00		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.26		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	17.64		
B2.2	50mm thick clean river sand blinding	m ³	0.88		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	17.64		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	12.60		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	17.64		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	10.50		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.76		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	2.52		
B5.1.3	40mm thick screed to top of slab	m ³	0.71		
B5.1.4	Topping smooth finish	m ²	17.64		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	21.00		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	55.77		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	55.21		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	55.77		
B8.0	Painting				
B8.1	Base/first coat	m ²	221.95		
B8.1	Paint Fibre seal on external wall	m ²	55.77		
B8.2	Paint waterproofing topcoat on internal wall	m ²	55.21		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.79		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	27.65		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	12.43		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	17.64		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	4.20		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessessary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.79		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessessary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum			
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Thobile Mkhumane House No.4

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	26.95		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.62		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	21.28		
B2.2	50mm thick clean river sand blinding	m ³	1.06		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	21.28		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	16.17		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	21.28		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	13.48		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	2.13		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	3.23		
B5.1.3	40mm thick screed to top of slab	m ³	0.85		
B5.1.4	Topping smooth finish	m ²	21.28		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	26.95		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	73.94		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	1.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	59.31		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	57.17		
B8.0	Painting				
B8.1	Base/first coat	m ²	232.96		
B8.1	Paint Fibre seal on external wall	m ²	57.17		
B8.2	Paint waterproofing topcoat on internal wall	m ²	59.31		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	1.01		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	35.48		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	15.95		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	21.28		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	5.30		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.78		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	-		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Thobile Mkhumane House No.5

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	15.10		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0.91		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	14.20		
B2.2	50mm thick clean river sand blinding	m ³	0.71		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	14.20		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	9.06		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	14.20		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	7.55		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.42		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1.81		
B5.1.3	40mm thick screed to top of slab	m ³	0.57		
B5.1.4	Topping smooth finish	m ²	14.20		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	15.10		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	51.00		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	48.69		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	50.47		
B8.0	Painting				
B8.1	Base/first coat	m ²	198.32		
B8.1	Paint Fibre seal on external wall	m ²	50.47		
B8.2	Paint waterproofing topcoat on internal wall	m ²	48.69		

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads					
ITEM	DESCRIPTION	Unit	Qty	RATE	AMOUNT
C	SECTION C - PLATFORM WORKS				
	Earthworks				
	Stripping of top soil 300mm thick, dispose and spoil topsoil at 5 km freehaul distance to borrow pit or as directed by engineer.	m ²	450		
	Levelling of Site				
	Cut to fill in all suitable in situ material including intermediate, place and compacted in 150 mm layers to 93% MOD AASHTO density within a free haul distance of 5km				
	(a) Soft excavation	m ³	1000		
	(c) Hard rock excavation	m ³	250		
Amount Carried to Summary					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads					
ITEM	DESCRIPTION	Unit	Qty	RATE	AMOUNT
D	SECTION D - FENCING				
	Excavations and Earthworks				
D.1	Clear vegetation in 0.2m wide strip along fence line. Level the uneven ground and spread material on site along the boundary line.	m	3600		
	Fencing				
D.2	Supply and Install Bonnox Heavy Duty (veldspan - 10-119-30 (1047/12 57kg)) fully galvanised fence 1500mm high fixed to 3 No strands of galvanised straining wire 3.15mm thick at 100mm, 650mm and 1350mm respectively above original ground complete with straining poles, stays, Y- standards c/w 7m wide as per details in drawing MNWAP-0000-003 including excavations and concrete works.	m	3600		
	Fencing				
D.3	Galvanised steel gate size 4000mm wide x 1500mm high comprising double leaf with suitable locking chain and padlock.	No.	12		
Amount Carried to Summary					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads					
ITEM	DESCRIPTION	Unit	Qty	RATE	AMOUNT
E	SECTION E - SUPPLY AND DELIVERY OF VIP TOILET STRUCTURES AND TANK STANDS				
E1.0	Site Clearance and Excavations				
E1.1	Clear vegetation for VIP Toilet	m ²	108,75		
E1.1	Clear vegetation for Tank Stand	m ²	135,00		
	VIP Toilets Construction				
E1.2	Construct VIP Toilets for homesteads to specification using blockwork including excavations. Toilet dimension shall be constructed as per drawing including pre-cast substructure or equivalent, Precast Top Structures C/W All Plastic Plumbing Components of Pedestal/Baby Seat, Air Vent Pipe, Fly Screen, Holder Bat And 5l Hand Washing Facility C/W Fittings and Accessories in accordance to Drawing No. MNWAP-0000-01	No.	12		
	Tank Stand- Concrete works				
E1.3	Construct tank stands including excavations for homesteads to allow rainwater harvesting from gutter brackets. Tank stand should also be adequately sized for 5000L tank load capacity in accordance to Drawing No. MNWAP-0000-02	No.	12		
Total carried forward to summary					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chazala Homesteads					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
SECTION F: DAY WORKS					
F1.0	Tenderers are to refer to the introduction to the Bill of Quantities for notes concerning Dayworks				
	Labour				
F1.1	Foreman	hr	40		
F1.2	Quantity Surveyor	hr	4		
F1.3	Surveyors	hr	4		
F1.4	Electrician	hr	4		
F1.5	Builder	hr	6		
F1.6	Plumber or drain-layer	hr	6		
F1.7	Operator	hr	44		
F1.8	General Laborer	hr	6		
	Material				
F1.9	Concrete (25MPa/19)	m ³	3		
F1.10	Grouted Stone Pitching (150 mm thick)	m ²	2		
	Contractor's Equipment				
F1.11	Dewatering pump complete with generator (or petrol/diesel/air driven) and accessories 3 kW	hr	4		
F1.12	Grader	hr	4		
F1.13	3-ton delivery vehicle	km	50		
F1.14	10m ³ Tipper Truck	km	50		
F1.15	Excavator, 30 ton	hr	4		
F1.16	Light Delivery Vehicle (LDV)	km	50		
F1.17	Tractor-Loader-Backhoe (TLB)	hr	36		
F1.18	Lowbed	hr	12		
F1.19	Dozzer	hr	12		
Total Carried forward to summary					-

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Thobile Mkhumane House split Mpendulo					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	41.84		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	2.51		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	35.92		
B2.2	50mm thick clean river sand blinding	m ³	1.80		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	35.92		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	25.10		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	35.92		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	20.92		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	3.59		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	5.02		
B5.1.3	40mm thick screed to top of slab	m ³	1.44		
B5.1.4	Topping smooth finish	m ²	35.92		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	41.84		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	132.84		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	158.12		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	60.15		
B8.0	Painting				
B8.1	Base/first coat	m ²	436.54		
B8.1	Paint Fibre seal on external wall	m ²	60.15		
B8.2	Paint waterproofing topcoat on internal wall	m ²	158.12		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.57		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	19.88		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	8.94		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	14.20		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
	Supply and Install Door Awning to door as shown on drawing.	No	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	4.00		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hincthes, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.64		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	-		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	1.57		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	55.09		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	24.77		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	35.92		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
	Supply and Install Door Awning to door as shown on drawing.	No	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	7.34		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	1.00		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	4.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door ,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	2.00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	3.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.64		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	1.00		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	1.00		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
TOTAL CARRIED TO SUMMARY					

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LOT 2 - The Construction of Four Chalaza Resettled Homesteads

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads		
EWADE/0000		
SUMMARY BILL OF QUANTITIES		
SECTION	DESCRIPTION	TOTAL
A1.1	PRELIMINARY AND GENERAL ITEMS	
B1.1	Bafana Dougles Ginindza house No.1	
B1.2	Bafana Dougles Ginindza house No.2	
B1.3	Bafana Dougles Ginindza house No.3	
B1.4	Bafana Dougles Ginindza house No.4	
B1.5	Bafana Dougles Ginindza house No.5	
B1.6	Bafana Dougles Ginindza house No.6	
B2.1	Manyazini Richard Ndwandwe (Mandela)	
B2.2	Manyazini Richard Ndwandwe (Lihle)	
B2.3	Manyazini Richard Ndwandwe (Bheki)	
B2.4	Manyazini Richard Ndwandwe (Muzi)	
B2.5	Manyazini Richard Ndwandwe (Manyazini)	
B2.6	Manyazini Richard Ndwandwe (Tengetile)	
B2.7	Manyazini Richard Ndwandwe (Sikhumbuzo)	
B3.1	Aaron Tfwala House No.1	
B3.2	Aaron Tfwala House No.2	
B3.3	Aaron Tfwala House No.3	
B3.4	Aaron Tfwala (kwanele)	
B3.5	Aaron Tfwala (Sizwe)	
B3.6	Aaron Tfwala (Simanga)	
B3.7	Aaron Tfwala (Mzwandile)	
B4.1	Lushini Grocery	
	Platform Works	
C1.1	Fencing	
D1.1	VIP Toilets	
E1.1	Day-Works	
	TOTAL VALUE OF WORK	
	Add 5 % CONTINGENCIES	
	SUB-TOTAL (A)	
	Add CONSTRUCTION LEVY AT () %	
	SUB-TOTAL (C)	
	Add 15 % VALUE ADDED TAX (V.A.T)	
	Total Bid Price	

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads					
ESWADE/0000					
UNIT	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	SECTION A: PRELIMINARY AND GENERAL ITEMS				
A1.1	Fixed Charge Items				
1,1	Contractual requirements - Insurances	Sum	1		
1,2	Site establishment.	Sum	1		
1,2	Facilities for Sub-Contractors	Sum	1		
1,4	All other fixed charge obligations	Sum	1		
1,5	Removal of site establishment	Sum	1		
A1.2	Time Related Items (Time related items will be paid for over the duration of the Contract in the ratio of work done to date to the total value of work to be executed in the sections excluding Section A. The final amount to be paid to be equal to 100%)				
A1.2.1	Contractual requirements	Sum	1		
A1.2.2	Facilities for Sub-Contractors	Sum	1		
A1.2.3	Supervision for the duration of construction	Sum	1		
A1.2.4	Company and office overhead costs for the duration of the Contract	Sum	1		
A1.2.5	Any other value-related obligations	Sum	1		
A1.3	Sums Stated Provisionally by the Employer				
A1.3.1	Provisional Sum: For testing ordered by the Employer and carried out by an independent laboratory or facility. (Note: All costs in connection with the sampling and testing of concrete shall be included in the Tenderer's rate for Concrete)	Prov. Sum	1	20 000,00	20 000,00
A1.3.2	Overhead charges and profit on Item A3.1 above	%	20 000,00		
A1.4	Other Preliminary and General Items				
A1.4.1	Sum for as built drawings (3 x A1 Copies & Electronic Copy (Dwgs)	Sum	1		
A1.4.2	Prov. Sum for EEC connection and other charges for the supply of electricity to all the structures.	Prov. Sum	1	350 000,00	350 000,00
A1.4.3	Allow for overhead charges and profit on item A4.2 above	%	350 000,00		
Total Carried To Summary					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Bafana Douglas Ginindze LaMhlanga House No.1					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	45.78		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	2.75		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	37.83		
B2.2	50mm thick clean river sand blinding	m ³	1.89		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	37.83		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	27.47		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	37.83		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	22.89		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	3.78		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	5.49		
B5.1.3	40mm thick screed to top of slab	m ³	1.51		
B5.1.4	Topping smooth finish	m ²	37.83		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	45.78		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	128.54		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	2.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	153.53		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	68.40		
B8.0	Painting				
B8.1	Base/first coat	m ²	443.86		
B8.1	Paint Fibre seal on external wall	m ²	68.40		
B8.2	Paint waterproofing topcoat on internal wall	m ²	153.53		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	1.72		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	60.28		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	27.10		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	37.83		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
	Supply and Install Door Awning to door as shown on drawing.	No			
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	7.04		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	1.00		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	4.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	3.00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	4.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	1.72		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum			
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum			
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Bafana Douglas Ginindze House

No.2

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	13.86		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0.83		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	12.00		
B2.2	50mm thick clean river sand blinding	m ³	0.60		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	12.00		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	8.32		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	12.00		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	6.93		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.20		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1.66		
B5.1.3	40mm thick screed to top of slab	m ³	0.48		
B5.1.4	Topping smooth finish	m ²	12.00		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	13.86		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	49.94		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	49.94		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	49.94		
B8.0	Painting				
B8.1	Base/first coat	m ²	199.75		
B8.1	Paint Fibre seal on external wall	m ²	49.94		
B8.2	Paint waterproofing topcoat on internal wall	m ²	49.94		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.52		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	18.25		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	8.21		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets, 0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	12.00		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
	Supply and Install Door Awning to door as shown on drawing.	No	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	3.23		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door, hinges, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door, hinges, screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all necessary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.52		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all necessary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	-		
	TOTAL CARRIED TO SUMMARY				-

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Bafana Dougles Ginindze					
House No.3					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	13.86		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0.83		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	12.00		
B2.2	50mm thick clean river sand blinding	m ³	0.60		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	12.00		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	8.32		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	12.00		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	6.93		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.20		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1.66		
B5.1.3	40mm thick screed to top of slab	m ³	0.48		
B5.1.4	Topping smooth finish	m ²	12.00		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	13.86		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	49.94		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	49.94		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	49.94		
B8.0	Painting				
B8.1	Base/first coat	m ²	199.75		
B8.1	Paint Fibre seal on external wall	m ²	49.94		
B8.2	Paint waterproofing topcoat on internal wall	m ²	49.94		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.52		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	18.25		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	8.21		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	12.00		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
	Supply and Install Door Awning to door as shown on drawing.	No	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	7.34		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.52		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	-		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Bafana Dougles Ginindze House No.4

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	13.86		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0.83		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	12.00		
B2.2	50mm thick clean river sand blinding	m ³	0.60		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	12.00		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	8.32		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	12.00		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	6.93		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.20		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1.66		
B5.1.3	40mm thick screed to top of slab	m ³	0.48		
B5.1.4	Topping smooth finish	m ²	12.00		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	13.86		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	132.84		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	49.94		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	49.94		
B8.0	Painting				
B8.1	Base/first coat	m ²	199.75		
B8.1	Paint Fibre seal on external wall	m ²	49.94		
B8.2	Paint waterproofing topcoat on internal wall	m ²	49.94		

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Part 2: Section 6 Statement of Requirements

Ring Beam				
Concrete				
Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.52		
Reinforcement				
Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	18.25		
High tensile steel reinforcement Bars (12mm diameter bars)	kg	8.21		
ROOF WORKS				
Steel Sheetting				
Supply and fix high quality I.B.R sheets, 0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	12.00		
Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
Supply and Install Door Awning to door as shown on drawing.	No	1.00		
Supply and installation of ancillaries				
Galvanised Ridging	m	-		
IBR flushing	m	3.23		
Galvanised IBR Closure	m	-		
Roof Framework				
Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
Windows				
Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
NCTIS	No.	-		
NTCX7S	No.	-		
TD1	No.	-		
TD7	No.	2.00		
TD15	No.	-		
TD151	No.	-		
Doors				
Supply and installation of hard wood English 8 panel door external door, hinges, screws and lockset c/w vanish.	No.	1.00		
Supply and installation of Catafoil Door internal door, hinges, screws and lock set.	No.	-		
Door Frames				
150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
Gutter				
Supply and Install PVC Half Round gutter complete with all necessary fittings to engineers specification including downpipes and	Sum	1.00		
Apron				
Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.52		
Soakaway				
Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
Shower				
Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
Electrical Works				
Supply and Install Electrical Wiring material complete with all necessary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	-		
TOTAL CARRIED TO SUMMARY				-

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Bafana Douglas Ginindze					
House No.5					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure		14.37		
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	14.37		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0.86		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	12.87		
B2.2	50mm thick clean river sand blinding	m ³	0.64		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	12.87		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	8.62		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	12.87		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	7.19		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.29		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1.72		
B5.1.3	40mm thick screed to top of slab	m ³	0.51		
B5.1.4	Topping smooth finish	m ²	12.87		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	14.37		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	51.78		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	51.78		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	51.78		
B8.0	Painting				
B8.1	Base/first coat	m ²	207.10		
B8.1	Paint Fibre seal on external wall	m ²	51.78		
B8.2	Paint waterproofing topcoat on internal wall	m ²	51.78		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.54		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	18.92		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	8.51		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	12.87		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
	Supply and Install Door Awning to door as shown on drawing.	No	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	3.49		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hincthes, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.54		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	-		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Bafana Dougles Ginindze House No.6					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	17.06		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.02		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	16.38		
B2.2	50mm thick clean river sand blinding	m ³	0.82		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	16.38		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	10.24		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	16.38		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	10.24		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.64		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	2.05		
B5.1.3	40mm thick screed to top of slab	m ³	0.66		
B5.1.4	Topping smooth finish	m ²	16.38		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	17.06		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	46.30		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	2.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	46.30		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	46.30		
B8.0	Painting				
B8.1	Base/first coat	m ²	185.20		
B8.1	Paint Fibre seal on external wall	m ²	46.30		
B8.2	Paint waterproofing topcoat on internal wall	m ²	46.30		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.64		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	22.46		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	10.10		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality Rondavel Roof tiles sheets, fixed to timber brandering (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	Sum	1.00		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Harvey tiles round cap Ingcongwane (black)	No.	1.00		
B12.2	IBR flushing	m	-		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply Design and Installation of Rondavel circular roof frame with SABS timber brainerings (38mm*38mm), rafters (114mm*38mm) on 114mm*38mm SABS Timber wall plate c/w ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	5.00		
B14.4	TD1	No.	-		
B14.4	TD7	No.	-		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hincthes, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.64		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	-		
	TOTAL CARRIED TO SUMMARY				
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	-		
	TOTAL CARRIED TO SUMMARY				

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads -Manyazini Richard Ndwandwe (Lihle)

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	25.93		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.56		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	28.37		
B2.2	50mm thick clean river sand blinding	m ³	1.42		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	28.37		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	15.56		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	28.37		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	12.97		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	2.84		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	3.11		
B5.1.3	40mm thick screed to top of slab	m ³	1.13		
B5.1.4	Topping smooth finish	m ²	28.37		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	25.93		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	80.56		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	2.00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	114.77		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	90.83		
B8.0	Painting				
B8.1	Base/first coat	m ²	411.21		
B8.1	Paint Fibre seal on external wall	m ²	90.83		
B8.2	Paint waterproofing topcoat on internal wall	m ²	114.77		

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads -Manyazini Richard Ndwandwe (Muzi)					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS		22 20		
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	22.20		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.33		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	24.48		
B2.2	50mm thick clean river sand blinding	m ³	1.22		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	24.48		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	13.32		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	24.48		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	11.10		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	2.45		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	2.66		
B5.1.3	40mm thick screed to top of slab	m ³	0.98		
B5.1.4	Topping smooth finish	m ²	24.48		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	22.20		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	68.98		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	101.24		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	77.77		
B8.0	Painting				
B8.1	Base/first coat	m ²	358.01		
B8.1	Paint Fibre seal on external wall	m ²	77.77		
B8.2	Paint waterproofing topcoat on internal wall	m ²	101.24		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0,97		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	34,14		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	15,35		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	28,37		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1,00		
	Supply and Install Door Awning to door as shown on drawing.	No	-		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	6,96		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1,00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	4,00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1,00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	1,00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	2,00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1,00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0,97		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum			
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1,00		
TOTAL CARRIED TO SUMMARY					-

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads -Manyazini Richard Ndwandwe House No.1

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	26.40		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1.58		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	22.81		
B2.2	50mm thick clean river sand blinding	m ³	1.14		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	22.81		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	15.84		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	22.81		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	13.20		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	2.28		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	3.17		
B5.1.3	40mm thick screed to top of slab	m ³	0.91		
B5.1.4	Topping smooth finish	m ²	22.81		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	26.40		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	82.02		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	88.24		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	69.29		
B8.0	Painting				
B8.1	Base/first coat	m ²	315.05		
B8.1	Paint Fibre seal on external wall	m ²	69.29		
B8.2	Paint waterproofing topcoat on internal wall	m ²	88.24		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.99		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	34.76		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	15.63		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	22.81		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
	Supply and Install Door Awning to door as shown on drawing.	No	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	6.00		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	4.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hincthes, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	1.00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	2.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.99		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1.00		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads -Manyazini Richard Ndwandwe (Bheki)

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	13.26		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0.80		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	12.00		
B2.2	50mm thick clean river sand blinding	m ³	0.60		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	12.00		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	7.96		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	12.00		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	6.63		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.20		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1.59		
B5.1.3	40mm thick screed to top of slab	m ³	0.48		
B5.1.4	Topping smooth finish	m ²	12.00		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	13.26		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	46.45		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	46.45		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	46.45		
B8.0	Painting				
B8.1	Base/first coat	m ²	185.80		
B8.1	Paint Fibre seal on external wall	m ²	46.45		
B8.2	Paint waterproofing topcoat on internal wall	m ²	46.45		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.50		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	17.46		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	7.85		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets, 0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	12.00		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
	Supply and Install Door Awning to door as shown on drawing.	No	1.00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	3.23		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door, hinges, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door, hinges, screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all necessary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.50		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all necessary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	-		
TOTAL CARRIED TO SUMMARY					-

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads -Manyazini Richard Ndwandwe (Tengetile)					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure		13.86		
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	13.86		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0.83		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	12.00		
B2.2	50mm thick clean river sand blinding	m ³	0.60		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	12.00		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	8.32		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	12.00		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	6.93		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.20		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1.66		
B5.1.3	40mm thick screed to top of slab	m ³	0.48		
B5.1.4	Topping smooth finish	m ²	12.00		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	13.86		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	48.55		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	48.55		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	48.55		
B8.0	Painting				
B8.1	Base/first coat	m ²	194.21		
B8.1	Paint Fibre seal on external wall	m ²	48.55		
B8.2	Paint waterproofing topcoat on internal wall	m ²	48.55		

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Part 2: Section 6 Statement of Requirements

Ring Beam				
Concrete				
Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.52		
Reinforcement				
Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	18.25		
High tensile steel reinforcement Bars (12mm diameter bars)	kg	8.21		
ROOF WORKS				
Steel Sheetting				
Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	12.00		
Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
Supply and Install Door Awning to door as shown on drawing.	No	1.00		
Supply and installation of ancillaries				
Galvanised Ridging	m	-		
IBR flushing	m	3.23		
Galvanised IBR Closure	m	-		
Roof Framework				
Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
Windows				
Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
NCTIS	No.	-		
NTCX7S	No.	-		
TD1	No.	-		
TD7	No.	2.00		
TD15	No.	-		
TD151	No.	-		
Doors				
Supply and installation of hard wood English 8 panel door external door,hincthes, screws and lockset c/w vanish.	No.	1.00		
Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
Door Frames				
150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
Gutter				
Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
Apron				
Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.52		
Soakaway				
Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
Shower				
Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
Electrical Works				
Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	-		
TOTAL CARRIED TO SUMMARY				

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads -Manyazini Richard Ndwandwe (Sikhumbuzo)					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3 600,00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	51,62		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	3,10		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	47,47		
B2.2	50mm thick clean river sand blinding	m ³	2,37		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	47,47		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	30,97		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	47,47		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	25,81		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	4,75		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	6,19		
B5.1.3	40mm thick screed to top of slab	m ³	1,90		
B5.1.4	Topping smooth finish	m ²	47,47		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	51,62		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	184,80		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1,00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	3,00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	158,12		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	114,95		
B8.0	Painting				
B8.1	Base/first coat	m ²	546,15		
B8.1	Paint Fibre seal on external wall	m ²	114,95		
B8.2	Paint waterproofing topcoat on internal wall	m ²	158,12		

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Part 2: Section 6 Statement of Requirements

B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	9,68		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	67,97		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	30,56		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	47,47		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1,00		
	Supply and Install Door Awning to door as shown on drawing.	No			
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	8,33		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1,00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	1,00		
B14.3	NCT4S	No.	1,00		
B14.4	TD1	No.	-		
B14.4	TD7	No.	6,00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	2,00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	3,00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	5,00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all necessary fittings to engineers specification including downpipes and	Sum	1,00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	1,94		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	1,00		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	1,00		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all necessary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1,00		
TOTAL CARRIED TO SUMMARY					-

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads -Manyazini Richard Ndwandwe Split No.3 (Mandela)					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3,600.00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	15.90		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0.95		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	14.40		
B2.2	50mm thick clean river sand blinding	m ³	0.72		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	14.40		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	9.54		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	14.40		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	7.95		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1.44		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1.91		
B5.1.3	40mm thick screed to top of slab	m ³	0.58		
B5.1.4	Topping smooth finish	m ²	14.40		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	15.90		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	49.93		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1.00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	49.93		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	49.93		
B8.0	Painting				
B8.1	Base/first coat	m ²	199.70		
B8.1	Paint Fibre seal on external wall	m ²	49.93		
B8.2	Paint waterproofing topcoat on internal wall	m ²	49.93		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0.60		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	20.94		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	9.41		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	14.40		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1.00		
	Supply and Install Door Awning to door as shown on drawing.	No	-		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	3.70		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1.00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2.00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1.00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1.00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1.00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0.60		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	-		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads -Aaron Khangele Tfwala Split 3 (Sizwe)

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3 600,00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	14,01		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0,84		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	13,33		
B2.2	50mm thick clean river sand blinding	m ³	0,67		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	13,33		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	8,41		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	13,33		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	7,01		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1,33		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1,68		
B5.1.3	40mm thick screed to top of slab	m ³	0,53		
B5.1.4	Topping smooth finish	m ²	13,33		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	14,01		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	49,08		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1,00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	49,08		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	49,08		
B8.0	Painting				
B8.1	Base/first coat	m ²	196,31		
B8.1	Paint Fibre seal on external wall	m ²	49,08		
B8.2	Paint waterproofing topcoat on internal wall	m ²	49,08		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0,53		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	18,45		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	8,29		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	13,33		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1,00		
	Supply and Install Door Awning to door as shown on drawing.	No	1,00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	3,40		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1,00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2,00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinthes, screws and lockset c/w vanish.	No.	1,00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1,00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1,00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0,53		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1,00		
TOTAL CARRIED TO SUMMARY					-

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Aaron khangele Tfwala Split 2(Mzwndile)

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by	m ²	3 600,00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	29,70		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1,78		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	28,00		
B2.2	50mm thick clean river sand blinding	m ³	1,40		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	28,00		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	17,82		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	28,00		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	14,85		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	2,80		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	3,56		
B5.1.3	40mm thick screed to top of slab	m ³	1,12		
B5.1.4	Topping smooth finish	m ²	28,00		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	29,70		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	104,04		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1,00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	2,00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	127,98		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	104,04		
B8.0	Painting				
B8.1	Base/first coat	m ²	464,04		
B8.1	Paint Fibre seal on external wall	m ²	104,04		
B8.2	Paint waterproofing topcoat on internal wall	m ²	127,98		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring	m ³	1,11		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	39,11		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	17,58		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins	m ²	28,00		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1,00		
	Supply and Install Door Awning to door as shown on drawing.	No	-		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	6,07		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1,00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	4,00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1,00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	1,00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	2,00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1,00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	1,11		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1,00		
TOTAL CARRIED TO SUMMARY					-

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Aaron Khngele Tfwala **Split 1 (Kwanele)**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3 600,00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	40,12		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	2,41		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	46,74		
B2.2	50mm thick clean river sand blinding	m ³	2,34		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	46,74		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	24,07		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	46,74		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	20,06		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	4,67		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	4,81		
B5.1.3	40mm thick screed to top of slab	m ³	1,87		
B5.1.4	Topping smooth finish	m ²	46,74		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	40,12		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	140,54		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1,00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	2,00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	185,94		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	140,54		
B8.0	Painting				
B8.1	Base/first coat	m ²	652,96		
B8.1	Paint Fibre seal on external wall	m ²	140,54		
B8.2	Paint waterproofing topcoat on internal wall	m ²	185,94		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	1,50		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	52,82		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	23,75		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	46,74		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1,00		
	Supply and Install Door Awning to door as shown on drawing.	No	1,00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	9,13		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1,00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	1,00		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	4,00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinthes, screws and lockset c/w vanish.	No.	1,00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	2,00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	3,00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1,00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	1,50		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	1,00		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	1,00		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1,00		
TOTAL CARRIED TO SUMMARY					-

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Aaron Khangele Tfwala (Simanga)

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3 600,00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	17,85		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1,07		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	16,84		
B2.2	50mm thick clean river sand blinding	m ³	0,84		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	16,84		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	10,71		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	16,84		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	8,93		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1,68		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	2,14		
B5.1.3	40mm thick screed to top of slab	m ³	0,67		
B5.1.4	Topping smooth finish	m ²	16,84		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	17,85		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	62,53		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1,00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	2,00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	62,53		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	62,53		
B8.0	Painting				
B8.1	Base/first coat	m ²	250,11		
B8.1	Paint Fibre seal on external wall	m ²	62,53		
B8.2	Paint waterproofing topcoat on internal wall	m ²	62,53		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0,67		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	23,50		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	10,57		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	16,84		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1,00		
	Supply and Install Door Awning to door as shown on drawing.	No	-		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	4,25		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1,00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2,00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1,00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1,00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1,00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0,67		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1,00		
TOTAL CARRIED TO SUMMARY					-

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Aaron Khangele Tfwala (Sicelo LaMatsenjwa)

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3 600,00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	34,71		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	2,08		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	34,80		
B2.2	50mm thick clean river sand blinding	m ³	1,74		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	34,80		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	20,83		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	34,80		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	17,36		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	3,48		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	4,17		
B5.1.3	40mm thick screed to top of slab	m ³	1,39		
B5.1.4	Topping smooth finish	m ²	34,80		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	34,71		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	121,59		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1,00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	2,00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	163,55		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	121,59		
B8.0	Painting				
B8.1	Base/first coat	m ²	570,27		
B8.1	Paint Fibre seal on external wall	m ²	121,59		
B8.2	Paint waterproofing topcoat on internal wall	m ²	163,55		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam	m ³	1,30		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	45,70		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	20,55		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured	m ²	34,80		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1,00		
	Supply and Install Door Awning to door as shown on drawing.	No	-		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	7,40		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1,00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	1,00		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	4,00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1,00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	2,00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	3,00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1,00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	1,30		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	1,00		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	1,00		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1,00		
	TOTAL CARRIED TO SUMMARY				-

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Aaron Tfwala Gogo

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3 600,00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	15,38		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	0,92		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	13,25		
B2.2	50mm thick clean river sand blinding	m ³	0,66		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	13,25		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	9,23		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	13,25		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	9,23		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	1,33		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	1,85		
B5.1.3	40mm thick screed to top of slab	m ³	0,53		
B5.1.4	Topping smooth finish	m ²	13,25		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	15,38		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	41,74		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1,00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	2,00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	41,74		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	41,74		
B8.0	Painting				
B8.1	Base/first coat	m ²	166,97		
B8.1	Paint Fibre seal on external wall	m ²	41,74		
B8.2	Paint waterproofing topcoat on internal wall	m ²	41,74		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0,58		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	20,25		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	9,10		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality Rondavel Roof tiles sheets, fixed to timber branderings (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	Sum	1,00		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1,00		
B12.0	Supply and installation of ancillaries				
B12.1	Harvey tiles round cap Ingcongwane (black)	No.	1,00		
B12.2	IBR flushing	m	-		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply Design and Installation of Rondavel circular roof frame with SABS timber branerings (38mm*38mm), rafters (114mm*38mm) on 114mm*38mm SABS Timber wall plate c/w ancillaries as shown in drawing.	Sum	1,00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	5,00		
B14.4	TD1	No.	-		
B14.4	TD7	No.	-		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	1,00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1,00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1,00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0,58		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	-		
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1,00		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Aaron Tfwala House No.3

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3 600,00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	32,79		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1,97		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	30,78		
B2.2	50mm thick clean river sand blinding	m ³	1,54		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	30,78		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 with 50mm cover on (600mm) foundation	m ²	19,67		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	30,78		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	16,40		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	3,08		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	3,93		
B5.1.3	40mm thick screed to top of slab	m ³	1,23		
B5.1.4	Topping smooth finish	m ²	30,78		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	32,79		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	114,86		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1,00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	-		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	149,56		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	100,02		
B8.0	Painting				
B8.1	Base/first coat	m ²	499,15		
B8.1	Paint Fibre seal on external wall	m ²	100,02		
B8.2	Paint waterproofing topcoat on internal wall	m ²	149,56		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	1,23		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	43,17		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	19,41		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	30,78		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1,00		
	Supply and Install Door Awning to door as shown on drawing.	No	1,00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	7,51		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1,00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	1,00		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	4,00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinthes, screws and lockset c/w vanish.	No.	1,00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	2,00		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	3,00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes	Sum	1,00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	1,23		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	1,00		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	1,00		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1,00		
TOTAL CARRIED TO SUMMARY					-

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads - Lushini Grocery

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
	HOMESTEAD SUBSTRUCTURE CONSTRUCTION WORKS				
B1.0	Foundation for Structure				
B1.1	Clear site vegetation including bushes, shrubs, undergrowth and grub up roots and cart away and deposit and spread on authorised disposal site as directed by Engineer.	m ²	3 600,00		
B1.2	Strip excavations of 600mm wide structural foundations to depth of up to 700mm, including backfilling material against structures.	m	26,40		
B1.3	Importation of G8 or suitable fill material from borrow site within 5 km freehaul distance laid in compaction to 93% MOD.AASHTO for sub structure.	m ³	1,58		
B2.0	Treatment				
B2.1	Chemical anti-termite treatment applied to top surface of clean river sand and under strip footing and executed by an approved specialist.	m ²	34,77		
B2.2	50mm thick clean river sand blinding	m ³	1,74		
B2.3	Provide and lay micron 250 polythene sheeting including all laps of 300mm on top of clean river sand (DPM)	m ²	34,77		
B3.0	Reinforcement				
B3.1	Welded mesh reinforcement Ref. 193 wth 50mm cover on (600mm) foundation	m ²	15,84		
B3.2	Welded mesh reinforcement Ref. 193 with 50mm cover for concrete slab	m ²	34,77		
B4.0	Blockwork				
B4.0	150mm 7 Mpa blockwork, concrete filled with 25 Mpa/19mm constructed in accordance with the applicable details shown on the drawing.	m ²	13,20		
B5.0	Reinforced Concrete Slab				
B5.1	Concrete				
B5.1.1	Cast in-situ concrete grade C25/19 for 100mm thick concrete slab with formwork.	m ³	5,46		
B5.1.2	Cast in-situ concrete grade C25/19 for 200mm thick concrete footing	m ³	3,17		
B5.1.3	40mm thick screed to top of slab	m ³	1,39		
B5.1.4	Topping smooth finish	m ²	34,77		
B6.0	Structural wall				
B6.1	Blockwork				
B6.1.1	Provide and lay 150mm wide horizontal Damp Proof Course sandwiched in mortar (1:3) or other equal and approved including cement screed leveling bed	m	26,40		
B6.1.2	150 mm thick blockwork 7 Mpa, including block mortar (1:4), brickforce after every 3 courses and concrete ventilators	m ²	92,07		
B6.1.3	Parapet wall: 115mm 7 Mpa concrete filled blockwork constructed in accordance with the applicable details shown on the drawing.	Sum	1,00		
B6.1.4	Concrete Pillar				
B6.1.4	Supply and install 150mm dia. concrete pillar.	No.	4,00		
B7.0	Plastering				
B7.1	(a) Internal Plaster 12-15mm plaster layer, including raking out joints	m ²	77,54		
B7.1	(b) External Plaster 12-15mm plaster layer, including raking out joints	m ²	77,73		
B8.0	Painting				
B8.1	Base/first coat	m ²	310,54		
B8.1	Paint Fibre seal on external wall	m ²	77,73		
B8.2	Paint waterproofing topcoat on internal wall	m ²	77,54		

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Part 2: Section 6 Statement of Requirements

B9.0	Ring Beam				
B9.1	Concrete				
B9.2	Cast in-situ, vibrate concrete grade C25/19, 230mm, 250mm for reinforced ring beam complete with hoop irons and formwork.	m ³	0,99		
B10.0	Reinforcement				
B10.1	Mild Steel round reinforcement Bars (8mm Diameter bars)	kg	34,76		
B10.2	High tensile steel reinforcement Bars (12mm diameter bars)	kg	23,75		
B11.0	ROOF WORKS				
B11.1	Steel Sheetting				
B11.1.1	Supply and fix high quality I.B.R sheets,0.5mm thick, fixed to timber purlins (measured separately) with galvanised roofing nails and all necessary ancillaries as shown in drawing.	m ²	34,77		
B11.1.2	Supply and install fascia-board c/w jointers and corners.	Sum	1,00		
B12.0	Supply and installation of ancillaries				
B12.1	Galvanised Ridging	m	-		
B12.2	IBR flushing	m	6,71		
B12.3	Galvanised IBR Closure	m	-		
B13.0	Roof Framework				
B13.1	Supply and Installation of SABS timber purlins (76mm*50mm) at 1000 mm c/c on SABS Timber Rafters (114mm*38mm) at 1000mm c/c to manufacturers specification on 114mm*38mm SABS Timber wall plate ancillaries as shown in drawing.	Sum	1,00		
B14.0	Windows				
B14.1	Supply and installation of steel window frames, corrosion protection with burglar proof, window cills and glazing.				
B14.2	NCTIS	No.	-		
B14.3	NTCX7S	No.	-		
B14.4	TD1	No.	-		
B14.4	TD7	No.	2,00		
B14.5	TD15	No.	-		
B14.6	TD151	No.	-		
B15.0	Doors				
B15.1	Supply and installation of hard wood English 8 panel door external door,hinches, screws and lockset c/w vanish.	No.	2,00		
B15.2	Supply and installation of Catafoil Door internal door ,hinges,screws and lock set.	No.	-		
B16.0	Door Frames				
B15.1	150mm heavy-duty steel door-frame to suite internal and external doors	No.	1,00		
B16.0	Gutter				
B16.1	Supply and Install PVC Half Round gutter complete with all nessesary fittings to engineers specification including downpipes and	Sum	1,00		
B17.0	Apron				
B17.1	Construction of apron slab, 500mm wide by 75mm thickness.	m ³	0,99		
B18.0	Soakaway				
B18.1	Excavation for soakaway, 600mm * 600mm * 1.0m deep rockfill covered with D.P.M and backfilling.	Sum	-		
B19.0	Shower				
B19.1	Supply and install shower trap drain and outlet pipe to soakaway c/w all necessary fittings as provided in the drawing.	Sum	-		
B20.0	Electrical Works				
B20.1	Supply and Install Electrical Wiring material complete with all nessesary fixtures and fittings for both external & internal as shown in the drawings including submission of yellow form for EEC connection to ESWADE as per engineers specification.	Sum	1,00		
TOTAL CARRIED TO SUMMARY					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads					
ITEM	DESCRIPTION	Unit	Qty	RATE	AMOUNT
C	SECTION C - PLATFORM WORKS				
	Earthworks				
	Stripping of top soil 300mm thick, dispose and spoil topsoil at 5 km freehaul distance to borrow pit or as directed by engineer.	m ²	450		
	Levelling of Site				
	Cut to fill in all suitable in situ material including intermediate, place and compacted in 150 mm layers to 93% MOD AASHTO density within a free haul distance of 5km				
	(a) Soft excavation	m ³	980		
	(c) Hard rock excavation	m ³	250		
Amount Carried to Summary					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads					
ITEM	DESCRIPTION	Unit	Qty	RATE	AMOUNT
C	SECTION C - FENCING				
	Excavations and Earthworks				
C.1	Clear vegetation in 0.2m wide strip along fence line. Level the uneven ground and spread material on site along the boundary line.	m	3600		
	Fencing				
C.2	Supply and Install Bonnox Heavy Duty (veldspan - 10-119-30 (1047/12 57kg)) fully galvanised fence 1500mm high fixed to 3 No strands of galvanised straining wire 3.15mm thick at 100mm, 650mm and 1350mm respectively above original ground complete with straining poles, stays, Y- standards c/w 7m wide as per details in drawing MNWAP-0670-003 including excavations and concrete works.	m	3600		
	Fencing				
C..3	Galvanised steel gate size 4000mm wide x 1500mm high comprising double leaf with suitable locking chain and padlock.	No.	15		
Amount Carried to Summary					

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chalaza Resettled Homesteads					
ITEM	DESCRIPTION	Unit	Qty	RATE	AMOUNT
D	SECTION D - SUPPLY AND DELIVERY OF VIP TOILET STRUCTURES AND TANK STANDS				
D1.0	Site Clearance and Excavations				
D1.1	Clear vegetation for VIP Toilet	m ²	108.75		
D1.1	Clear vegetation for Tank Stand	m ²	135.00		
	VIP Toilets Construction				
D1.2	Construct VIP Toilets for homesteads to specification using blockwork including excavations. Toilet dimension shall be constructed as per drawing including pre-cast substructure or equivalent, Precast Top Structures C/W All Plastic Plumbing Components of Pedestal/Baby Seat, Air Vent Pipe, Fly Screen, Holder Bat And 5l Hand Washing Facility C/W Fittings and Accessories in accordance to Drawing No. MNWAP-0670-01	No.	15		
	Tank Stand- Concrete works				
D1.3	Construct tank stands including excavations for homesteads to allow rainwater harvesting from gutter brackets. Tank stand should also be adequately sized for 5000L tank load capacity in accordance to Drawing No. MNWAP-0670-02	No.	15		
Total carried forward to summary					-

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Part 2: Section 6 Statement of Requirements

BILLS OF QUANTITIES - The Construction of Chazala Homesteads					
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
SECTION E: DAY WORKS					
E1.0	Tenderers are to refer to the introduction to the Bill of Quantities for notes concerning Dayworks				
	Labour				
E1.1	Foreman	hr	40		
E1.2	Quantity Surveyor	hr	4		
E1.3	Surveyors	hr	4		
E1.4	Electrician	hr	4		
E1.5	Builder	hr	6		
E1.6	Plumber or drain-layer	hr	6		
E1.7	Operator	hr	44		
E1.8	General Laborer	hr	6		
	Material				
E1.9	Concrete (25MPa/19)	m3	3		
E1.10	Grouted Stone Pitching (150 mm thick)	m2	2		
	Contractor's Equipment				
E1.11	Dewatering pump complete with generator (or petrol/diesel/air driven) and accessories 3 kW	hr	4		
E1.12	Grader	hr	4		
E1.13	3-ton delivery vehicle	km	50		
E1.14	10m3 Tipper Truck	km	50		
E1.15	Excavator, 30 ton	hr	4		
E1.16	Light Delivery Vehicle (LDV)	km	50		
E1.17	Tractor-Loader-Backhoe (TLB)	hr	36		
E1.18	Lowbed	hr	12		
Total Carried forward to summary					-

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Completion Schedule

The Contractor should indicate the project timelines that shows the sequence of activities required to finish a project:

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Supplementary Information

Supplemental information for a tender for works is any additional information that can be used to amend or add to in the tender documents, including extending time limits. It only becomes part of the contract if it explicitly states that it amends the contract documents.

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PART 3 - Contract

Section 7: General Conditions of Contract for the Procurement of Works

CONDITIONS OF CONTRACT

The General Conditions of Contract for Construction Works, Third Edition, 2015, published by the South African Institution of Civil Engineering, Private Bag X200, Halfway House, 1685, is applicable to this Contract and is obtainable from www.saice.org.za.

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Section 8: Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

GCC Clause Reference	Special Conditions
	Procurement Reference No: EWADE/0742
GCC 1.1(cc)	The Site is located at Chalaza Area and is defined in Drawings Nos: BONMTHI-0742-01-MZWA to EWADE-000-30
GCC 1.1(ee)	The Start Date shall be: _____
GCC 1.1(z)	The Project Manager is: _____
GCC 2.1	The following documents also form part of the Contract: _____ _____
GCC 3.7	This Contract is a Unit Price Contract.
GCC 3.8	Sectional completion is permitted.
GCC 7.1	For notices , the PE's address shall be: Attention: Procurement Manager Physical address: Siphofaneni Telephone: 00 268 2411 8600 Electronic mail address: eswade@eswade.co.sz For notices , the Contractor's address shall be: Attention: _____ Physical Address: _____ Telephone: _____ Electronic mail address: _____
GCC 9.1	The Works consist of: Site clearance, Earthworks and protection works, Construction works, Electrical works, Roof works, Internal & External Painting works, VIP Toilet construction and Fencing works.
GCC 10.2	The PE's specific approval is required for: Variation Approval
GCC 12.1	GCC Clause 12.1 on sub-contracting is modified as follows: Not Applicable
GCC 12.2	The following conditions shall apply to subcontracting: Not Applicable
GCC 13.1	The Schedule of Other Contractors _____ part of the Contract.
GCC 14.1	The Schedule of Key Personnel _____ part of the Contract.

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Part 3: Section 8 Special Conditions of Contract

GCC Clause Reference	Special Conditions
GCC 18.1	<p>The minimum insurance covers shall be:</p> <p>(a) The minimum cover for insurance of the Works, Plant and Materials is: _____</p> <p>(b) The maximum deductible for insurance of the Works, Plant and Materials is: _____</p> <p>(c) The minimum cover for insurance of Equipment is: _____</p> <p>(d) The maximum deductible for insurance of Equipment is: _____</p> <p>(e) The minimum cover for insurance of property is: _____</p> <p>(f) The maximum deductible for insurance of property is: _____</p> <p>(g) The minimum cover for personal injury or death insurance is: _____</p> <p>(h) The maximum deductible for personal injury or death insurance is: _____</p>
GCC 19.1	Site Investigation Report(s) _____ part of the contract.
GCC 22.1	The Intended Completion Date for the whole of the Works shall be: _____
GCC 26.1	The Site Possession Date shall be: _____
GCC 34.1	The procedure for settling disputes shall be _____ (Not Applicable)
GCC 34.3	Fees and types of reimbursable expenses to be paid to the Adjudicator:
GCC 34.4	<p>The arbitration shall be conducted in accordance with the Arbitration Act of Eswatini.</p> <p>Arbitration shall take place at: _____</p>
GCC 35.1	The Appointing Authority for the Adjudicator is: _____
GCC 36.1	The Contractor shall submit the Program for the Works within 14 days days/weeks of contract signature.
GCC 36.3	<p>The period between Program updates is 30 days.</p> <p>The amount to be withheld for late submission of an updated Program is: SZL5,000.00</p>
GCC 44.1	The Defects Liability Period is 365 days.

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Part 3: Section 8 Special Conditions of Contract

GCC Clause Reference	Special Conditions
GCC 50.1	Statements of estimated value of works executed shall be on a _____ basis.
GCC 53.1(l)	The following events shall also be Compensation Events:
GCC 56.1	<p>The Contract _____ subject to price adjustment in accordance with Clause 56 of the General Conditions of Contract, and the following information regarding coefficients _____ apply. (Not Applicable)</p> <p>The coefficients for adjustment of prices are:</p> <p>(a) For currency:</p> <p>(i) _____ percent nonadjustable element (coefficient A).</p> <p>(ii) _____ percent adjustable element (coefficient B).</p> <p>(b) For currency:</p> <p>(i) _____ percent nonadjustable element (coefficient A).</p> <p>(ii) _____ percent adjustable element (coefficient B).</p>
GCC 56.1	<p>The Index I for local currency will be: _____</p> <p>The Index I for the specified international currency will be: _____</p> <p>The Index I for currencies other than the local currency and the specified international currency will be: _____</p>
GCC 57.1	The proportion of payments retained is 10 percent.
GCC 58.1	<p>The liquidated damages for the whole of the Works are SZL20,000.00 per day.</p> <p>The maximum amount of liquidated damages for the whole of the Works is 10% Percent of the final Contract Price.</p>
GCC 59.1	<p>The Bonus for the whole of the Works is _____ per day. The maximum amount of Bonus for the whole of the Works is _____ Percent of the final Contract Price.</p> <p>Not Applicable</p>
GCC 60.1	<p>The Advance Payment will be equivalent to _____ and will be paid in the same currencies and proportions as the Contract Price.</p> <p>It will be paid to the Contractor within _____.</p> <p>Not Applicable</p>
GCC 60.3	The Advance Payment will be repaid by deducting equal amounts from payments due to the Contractor each month during the period starting

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Part 3: Section 8 Special Conditions of Contract

GCC Clause Reference	Special Conditions
	<p>_____ months after the Start Date and ending _____ months after the Start Date.</p> <p><i>Not Applicable</i></p>
GCC 61.1	<p>A Performance Security Shall be required.</p> <p>A Performance Security shall be for 10% of the Contract Price.</p>
GCC 61.3	<p>The standard form of Performance Security acceptable to the PE shall be an Unconditional Bank Guarantee in the format presented in Section 9 of the Tendering Documents.</p>
GCC 67.1	<p>The date by which “as built” drawings are required is:</p> <p>The date by which operating, and maintenance manuals are required is:</p> <p>_____</p>
GCC 67.2	<p>The amount to be withheld for failing to produce “as built” drawings and/or operating and maintenance manuals by the date required is _____ Eswatini Lilangeni .</p>
GCC 69.1	<p>The percentage to apply to the value of the work not completed, representing the PE’s additional cost for completing the Works, is:</p> <p>_____</p>

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Section 9: Contract Forms

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Contract Agreement

Procurement Reference No: EWADE/0742

THIS CONTRACT AGREEMENT made this _____ day of _____, _____, between _____ of _____ (hereinafter “the Procuring Entity - PE”), of the one part, and _____ of _____ (hereinafter “the Contractor”), of the other part.

Whereas the PE is desirous that the Contractor executes _____ (hereinafter called “the Works”) and the PE has accepted the Tender by the Contractor for the execution and completion of such Works and the remedying of any defects therein for the Contract Price of Eswatini Lilangeni _____.

NOW THIS CONTRACT AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Contract Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Contract Agreement shall prevail over all other Contract documents.
 - (a) the Contractor’s Tender;
 - (b) the Special Conditions of Contract;
 - (c) the General Conditions of Contracts;
 - (e) the Scope of works;
 - (f) the Drawings; and
 - (g) the completed Schedules.
3. In consideration of the payments to be made by the PE to the Contractor as indicated in this Contract, the Contractor hereby covenants with the Procuring Entity to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The PE hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price of _____ or such other sum as may become payable under the provisions of the Contract, at the times and in the manner prescribed by the Contract.
5. The Contract Price or such other sum as may be payable shall be paid _____ in Eswatini Lilangeni , _____ in _____ and _____ in _____.

IN WITNESS whereof the parties thereto have caused this Contract to be executed in accordance with the law specified in the Special Conditions of Contract on the day, month and year indicated above.

Signed by _____ (for the Procuring Entity)

Name: _____ Position: _____

In the presence of:

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Tendering Document for the Procurement of Works

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Part 3. Section 9. Contract Forms

Name: _____ Position: _____

Signed by _____ (for the Contractor)

Name: _____ Position: _____

In the presence of:

Name: _____ Position: _____

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Performance Security

Date: _____

Procurement Reference No: EWADE/0742

To: _____

WHEREAS _____ (hereinafter called “the Contractor”) has undertaken, pursuant to the Contract referenced above, dated _____ to execute _____ (hereinafter called “the Contract”);

AND WHEREAS it has been stipulated by you in the aforementioned Contract that the Provider shall furnish you with a demand guarantee issued by a financial institution for the sum specified therein as security for compliance with the Provider’s performance obligations in accordance with the Contract;

AND WHEREAS the undersigned _____ legally domiciled in [insert _____] (hereinafter the “Guarantor”), have agreed to give the Contractor a security;

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Contractor, up to a total of _____ such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand declaring the Contractor to be in default under the Contract, without cavil or argument, any sum or sums within the limits of _____ as aforesaid without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed thereunder or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any such change, addition, or modification.

This Guarantee shall remain in force up to and including _____*

** Insert the date twenty-eight (28) days after the intended completion date as stated in SCC 22.1. In the event of an extension of the intended completion date, the Entity shall request for an extension of this guarantee from the contractor. The request for extension shall be in writing and must be made prior to the expiration date stated in the guarantee.*

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Part 3. Section 9. Contract Forms

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758, except that Sub-article 20(a) is hereby excluded.

Name: _____

In the capacity of _____

Signed: _____ Duly authorized to sign
the Performance Security for and on behalf of:

Dated on _____ day of _____, _____

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Advance Payment Security

Date: _____

Procurement Reference No.: EWADE/0742

To: *[insert complete name and address of Procuring Entity]*

In accordance with the payment provision included in the Contract referenced above, in relation to advance payments, *[insert complete name and address of Contractor]* (hereinafter called “the Contractor”) shall deposit with the PE a Bank Guarantee to guarantee its proper and faithful performance of the obligations imposed by said Clause of the Contract, in the amount of *[insert currency and amount of guarantee in words and figures]*.

We, the undersigned *[insert complete name of Guarantor]*, legally domiciled in *[insert full address of Guarantor]* (hereinafter “the Guarantor”), as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to the PE on its first demand without whatsoever right of objection on our part and without its first claim to the Contractor, in the amount not exceeding *[insert currency and amount of guarantee in words and figures]*.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between the PE and the Contractor, shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any such change, addition, or modification.

This Security shall remain valid and in full effect from the date of the advance payment under the Contract until the PE receives full repayment of the same amount from the Contractor.

Name: _____ In the capacity of _____

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758, except that Sub-article 20(a) is hereby excluded.

Signed: _____

Duly authorized to sign the Payment Security for and on behalf of: _____

Dated on _____ day of _____, _____

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