



TENDER NO: ALMT25/2023

CONSTRUCTION OF BADPLAAS LANDFILL SITE.

Name of Tendering Entity			
Name of Tendering Entity Representative			
Physical Address of Tendering Entity			
Postal Address of Tendering Entity			
Contact Details of Tendering Entity	Tel: Fax: Cell: Email:		
Tender Amount carried from Form of Offer (incl VAT)	R (incl VAT)		
CIDB Grading		CRN No:	
Tax Compliance Status & PIN	Tax Number		PIN
CSD Registration No.			

Prepared for:
 Chief Albert Luthuli Local Municipality
 PO Box 24
 Carolina
 1185

Prepared By:
 RSK3 Consulting Engineers (Pty) Ltd
 51 Nelson Mandela Drive
 Standerton
 2430

CONTENTS			
NUMBER	HEADING	PAGE	COLOUR CODING
	THE TENDER		
	Part T1: Tendering Procedures		
T1.1	Tender Notice and Invitation to Tender	4	White
T1.2	Tender Data	5	Green
	Part T2: Returnable Documents		
T2.1	List of Returnable Documents	15	White
	Check List	15	White
T2.2	Returnable Schedules	16	White
	THE CONTRACT		
	Part C1: Agreements and Contract Data		
C1.1	Form of Offer and Acceptance	74	Pink
C1.2	Contract Data	81	Pink
C1.3	Forms of Securities	93	White
	Part C2: Pricing Data		
C2.1	Pricing Instructions	106	Yellow
C2.2	Bills of Quantities	109	Yellow
	Part C3: Scope of Work		
C3.1	Description of the Works	177	Blue
C3.2	Employer's Agent	180	Blue
C3.3	Construction	181	Blue
C3.4	Management of the Works	183	Blue
C3.5	Project Specifications	184	Blue
C3.6	Health and Safety Specifications	185	Blue
C3.7	Generic Environmental Management	199	Blue
C3.8	Electrical Specifications	207	Blue
	Part C4: Site Information		
C4.1	General Information	225	Green
C4.2	Drawings	226	White



CHIEF ALBERT LUTHULI LOCAL MUNICIPALITY



THE TENDER:

PART T1: TENDERING PROCEDURES

T1.1: TENDER NOTICE AND INVITATION TO TENDER

**CHIEF ALBERT LUTHULI LOCAL MUNICIPALITY
BID NO: ALMT25/2025
CONSTRUCTION OF BADPLAAS LANDFILL SITE.**

The Municipality hereby invites reputable and well experienced service providers to submit tenders for the below-mentioned projects. The services providers must comply with the VAT Act. Tender documents will be available on e-tender, municipal website and also at Carolina Municipal Offices from 13 November 2023 at cashiers point during office hours upon payment of a nonrefundable printing fee of R 928.62 and can also be downloaded on the municipal website or e-tenders free of charge.

Ref No	Description	Contact Person	Valuation Criteria	Briefing Session	CIDB Grading	Closing Date
ALMT25/2023	Construction of Badplaas Landfill Site	Mr. B Thela @017 843 4000	Functionality, the lowest acceptable tender will determine the Preferential point system to be used: 80/20 or 90/10	Compulsory briefing Date: 17 November 2023 Venue: eManzana Unit Offices Time: 11am	6GB or higher	28 November 2023 @ 12:00

Sealed envelopes must be addressed to: The Municipal Manager,
Chief albert luthuli local Municipality
PO Box 24, CAROLINA, 1185

Marked with the correct bid number or deposit it in the '**TENDER BOX**' situated at Chief albert Luthuli local Municipality Offices, 28 Church Street, CAROLINA, **no later than 12H00 on the specified closing date per tender.**

The following **compulsory documents** must be accompanied with the tender, and failure to provide such documentations shall constitute automatic disqualification: Original Valid Tax Clearance Certificate or SARS Pin, Company Certificate, Municipal Account not in arrear for more than 90 days and not older than three months and proof of CSD registration.

Bidders who do not attend the compulsory briefing will be automatically disqualified. **Attach your valid B-BBEE Certificate to claim preference points. Only bidders who are registered with CSD will be considered.**

A preferential point system shall apply whereby this contract will be allocated to a bidder in accordance with the Preferential Procurement Policy Framework Act, No 5 of 2000 and as defined in the conditions of bid in the bid document, read in conjunction with the Preferential Procurement Regulations 2022, where 80/90 points will be allocated in respect of price and 20/10 points in respect of the municipal objectives.

Chief albert Luthuli local Municipality reserves the right to accept and/or not to accept the lowest priced or any other tender. **No late, telephonic, facsimile or e-mail tenders will be accepted.**

According to the Municipality Supply Chain Regulations issued by the Minister of Finance in terms of Section 168 of the Municipal Finance Management Act, Act 56 of 2003, persons within the organs of the state, like Councillors, and other elected representatives, full time employees and other directors of the public and municipal entities are prohibited from being eligible to bid or be awarded a contract to provide any services to the municipality.

If you do not hear from the Municipality within 90 working days, please consider your tender unsuccessful.

All administrative matters may be addressed to the Supply Chain Manager Mr. J Nkosi Tel no: 017 843 4025.

Technical Enquiries: Mr. B Thela

Email: BonganiT@albertluthuli.gov.za

Employer

Municipal Manager
Chief albert Luthuli local Municipality
PO Box 24,
CAROLINA,
1185
Website: www.albertluthuli.gov.za



PART T1: TENDERING PROCEDURES

T1.2 Tender Data

T1.2.1 Conditions of Tender

The conditions of tender are the Standard Conditions of Tender as contained in Annex F of the CIBD Standard for Uniformity in Construction Procurement (July 2015) as published in Government Gazette No 38960 of 10 July 2015, Board Notice 136 of 2015. (See www.cidb.org.za).

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.

Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

T1.2.2 Variations to the Standard Conditions of Tender

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall take precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

The clause numbers in the Tender Data refer to the corresponding clause numbers in the Conditions of Tender which follows this section (see Annex 1).

The additional Conditions of Tender are:

Clause Number	Tender Data
F.1.1	The Employer is, Chief Albert Luthuli Local Municipality represented by Mr. B. Thela : Project Manager
F.1.2	Tender Documents <i>Add the following:</i> The following documents form part of this tender: VOLUME 1: Principal Building Agreement Edition 6.2 - May 2018 as published by The Joint Building Contracts Committee® NPC (JBCC®). This publication is available, and tenderers must obtain copies at their own cost from the The Joint Building Contracts Committee website. VOLUME 2: Standard specifications, SANS. VOLUME 3: The Tender Document (this document), issued by the Employer comprise of: The Tender Part T1: Tendering Procedures T1.1 Tender Notice and Invitation to Tender T1.2 Tender Data Part T2: Returnable Documents T2.1 List of Returnable Documents T2.2 Returnable Schedules The Contract Part C1: Agreement and Contract Data C1.1 Form of Offer and Acceptance C1.2 Contract Data C1.3 Form of Securities Part C2: Pricing Data C2.1 Pricing Instructions C2.2 Bill of Quantities C2.3 Schedule of Daywork Rates Part C3: Scope of Work C3.1 Description of the Works C3.2 Employer's Agent C3.3 Construction



	C3.4 Management of the Works C3.5 Project Specifications C3.6 Health and Safety Specifications C3.7 Environmental Management During Construction C3.8 Electrical Specifications Part C4: Site Information C4.1 Site Information C4.2 Drawings
Clause Number	Tender Data
F.1.3.2	The tender document of the winning tenderer will become the contract document between the Employer and Contractor.
F.1.4	The Principal agent is: Contact Person : Shupikai Zakadhari Company Name : RSK3 Consulting Engineers (Pty) Ltd Address : 51 Nelson Mandela Drive Standerton 2430 Telephone : (013) 750 0204 : 078 960 4471 Facsimile : N/A Email Address : szakadhari@rsk3engineers.co.za The language for communications is English.
F.1.5	The Employer's right to accept or reject any tender offer: The Employer may accept or reject any variation, deviation, tender offer, or alternative tender offer, and may cancel the tender process and reject all tender offers at any time before the formation of a contract. The Employer shall not accept or incur any liability to a tenderer for such cancellation and rejection but will give reasons for such action upon written request to do so.
F.1.6.1	Data pertaining to targeted procurement This tender will be adjudicated and awarded in terms of the Chief albert luthuli local Municipality Procurement Policy. The complete document can be requested from Chief albert luthuli local Municipality.
F.1.6.3.1	Tenderers shall submit their proposals with costing. The Employer shall evaluate each responsive submission in terms of the method of evaluation stated in F.3.11.3 in the Tender Data.

Clause Number	Tender Data
F.2.1	Eligibility Only those tenderers who satisfy the following eligibility criteria and who provide the required evidence in their tender submissions are eligible to submit tenders and have their tenders evaluated: Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, for a 6GB or higher class of construction work, are eligible to have their tenders evaluated Joint ventures are eligible to submit tenders provided that: 1. every member of the joint venture is registered with the CIDB; 2. the lead partner has a contractor grading designation in the 6GB or higher class of construction work; and 3. the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for an 6GB or higher class of construction work or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations. The following tenderers who are registered with the CIDB, or are capable of being so registered prior to the evaluation of submissions, are eligible to have their tenders evaluated: a) contractors who have a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, for an 6GB or higher class of construction work; and b) contractors registered as Potentially Emerging enterprises with the CIDB who are registered in one contractor grading designation lower than that required in terms of a) above and who satisfy the following criteria: i. the employer is satisfied that such a contractor has the potential to develop and qualify to be registered in that higher grade as determined in accordance with the provisions of the CIDB Specification for Social and Economic Deliverables in Construction Works Contracts; and ii. the employer agrees to provide the financial, management or other support that is considered appropriate to enable the contractor to successfully execute that contract. Site visit and clarification meeting The arrangements for a compulsory site inspection visit and clarification meeting are as stated in the Tender Notice and Invitation to Tender. Tenderers must sign the attendance list in the name of the tendering entity. Addenda will be issued, and tenders will be received only from those tendering entities appearing on the attendance list.

Clause Number	Tender Data
F.2.7	The arrangements for the compulsory Project Briefing Session are as per the Invitation to Tender Enquiries may be directed to Mr. J Nkosi at the Supply Chain Management offices. Tel: 017 843 4025 Tenderers must sign the attendance list in the name of the tendering entity. Addenda will be issued to and tenders will be received only from those tendering entities appearing on the attendance list.
F.2.13.	The tenderer must submit one tender offer only in a sealed envelope. The Employer's address for delivery of tender offers and identification details to be shown on the tenderer's offer package are: Location of tender box: Tender Box at the Chief albert Luthuli local Municipality Offices Physical Address: Identification Details: 28 Church Street, CAROLINA Tender reference number, Title of Tender Closing date and time of the tender, Tenderer's name, his authorised representatives name, Postal address and telephonic contact numbers
F.2.13.6	This tender will be submitted as a One (1) envelope tender document
F.2.13.10	Additional Clause: All annexures (for the Returnable Schedules) must be submitted in a separately bound document together with the tender document.
F.2.15.1	Refer to the Invitation to Tender for the closing time for submissions of the tender offers. No late submissions will be considered. Telephonic, telegraphic, telex, facsimile or emailed submission offers will not be accepted.
F.2.16	All Bids shall remain valid for a period of ninety (90) days after the time and date set for the opening of Bids, or until the tenderer is relieved of this obligation by the Employer, in writing, at an earlier date. However, the tenderer may be requested in writing, to extend the validity of this tender for a specific period. The written approval of the tenderer must then be received before the lapsing of the original validity period, in order to remain valid.
F.2.23	The Tenderer must provide the following with his submitted bid document. T2.2.1 Record of Addenda to Tender Documents T2.2.2 Compulsory Enterprise Questionnaire T2.2.3 Authority of Signatory T2.2.4 Proposed Amendments and Qualifications T2.2.5 Declaration of Interest T2.2.6 Preference Points Claim Form (SBD 6.1) T2.2.7 Declaration Certificate for Local Production and Content (SBD 6.2) T2.2.8 Declaration of Tenderer's Past Supply Chain Management Practices T2.2.9 Certificate of Independent Bid Determination T2.2.10 Schedule A: Key Personnel/Project Team T2.2.11 Schedule B: Work Experience of Tenderer T2.2.12 Schedule C: Project Plan T2.2.13 Schedule D: Safety Plan T2.2.14 Schedule of Proposed Subcontractors T2.2.15 Certificate of Tenderers Attendance at the Clarification Meeting T2.2.16 Tax Clearance Certificate or a copy of tax compliance status (TCS) T2.2.17 B-BBEE Certification T2.2.18 Certificate of Contractors Registration issued by the Construction Industry Development Board T2.2.19 Form Concerning Fulfilment of The Construction Regulations 2003 T2.2.20 Occupational Health and Safety Declaration
F.2.23	Failure to submit the required returnable schedules will deem the bid as non-responsive. Where a tenderer satisfies CIDB contractor grading designation requirements through joint venture formation, such tenderers must submit the Certificates of Contractor Registration in respect of each partner.
F.3.4	Opening of tender submissions: Tenders will be opened in public and tender names, where practical will be read out.



Clause Number	Tender Data												
F.3.8	Tenders will be deemed non-responsive if the following conditions are not met: - The contractors fail to comply with the pre-qualification criteria for preferential procurement. - The contractors fail to meet the minimum qualifying score for functionality evaluation criteria for a tender. - The contractors fail to submit a valid CIDB certificate. - The tender is not in compliance with the Scope of Work. - The tenderer has not completed and/or signed the Offer portion of C1.1. Form of Offer and Acceptance. - the tenderer does not comply with the Contractor's CIDB grading designation specified above. - The tenderer has failed to clarify or submit any supporting documentation within the time for submission stated in the Employer's written request; and - The tenderer has failed to provide sufficient evidence of technical experience, capable staff, and plant available for the project in terms of the quality component of the adjudication.												
F.3.11.1	The procedure for the evaluation of responsive tenders is Method 2: Functionality, price and preference. Although quality does not determine the award, quality will be evaluated first (as outlined below) and if the tenderer does not meet the minimum quality criteria, he/she will be eliminated, and the tender will not be evaluated further.												
F.3.11.3	Tenders are to be evaluated on the basis of an 80/20 system, 80 points for price and 20 points for attaining the Specific Goals and Broad Based Black Economic Empowerment (BBBEE) status level of contribution. The below mentioned criteria regarding Functionality are required for responsiveness and therefore eligibility for the next stage of evaluation. This is done to determine the ability of each bidder to successfully execute the contract according to "scope of work". <u>Bid Criteria:</u> Failure to comply with the following listed conditions will lead to non-compliance, bidders will be rejected after this phase and will not continue to the price scoring stage: - Failure to achieve the minimum total score of 70 points out of 100 points The criteria for evaluation of the technical aspects / functionality of the submitted tender and the scoring for functionality will be according to the table below: <table border="1"> <thead> <tr> <th>Description of quality criteria</th><th>Maximum number of points</th></tr> </thead> <tbody> <tr> <td>Key Personnel</td><td>25</td></tr> <tr> <td>Company Experience</td><td>40</td></tr> <tr> <td>Plant and equipment</td><td>25</td></tr> <tr> <td>Financial References</td><td>10</td></tr> <tr> <td>Total evaluation points for quality (Ms)</td><td>100</td></tr> </tbody> </table> Tender offers will only be considered responsive if the minimum quality requirement of 70 points is achieved. Tenderers are required to demonstrate their ability to undertake the work and provide proof of previous experience, expertise and availability of plant and equipment to undertake a project of this nature. Tenderers are therefore required to meet a minimum Quality Score of 70% (70 points out of 100) based on the criteria listed below. A score of less than 70 out of 100 points for Quality will render the tender non-responsive. The onus rests with the Tenderer to supply sufficient information to allow for evaluation and award of points detailed below. If insufficient information is provided, zero points will be awarded for that particular item. Note that Quality points are only used to determine responsiveness and will not be used further in the evaluation. - Key Personnel (Maximum 25 points) Details of key personnel and their experience and qualifications are to be entered in Schedule A of the Returnable Schedules. - Building Construction Experience (Maximum 40 points) Details of landfill sites/waste transfer station related projects & supporting information in terms of the points to be claimed in terms of quality, must be entered in Schedule B in the Returnable Schedule - Plant and Equipment (Maximum 25 points)	Description of quality criteria	Maximum number of points	Key Personnel	25	Company Experience	40	Plant and equipment	25	Financial References	10	Total evaluation points for quality (Ms)	100
Description of quality criteria	Maximum number of points												
Key Personnel	25												
Company Experience	40												
Plant and equipment	25												
Financial References	10												
Total evaluation points for quality (Ms)	100												



	Details of owned and hired plant and equipment are to be entered in Schedule C of the Returnable Schedules. iv. Financial References (Maximum 10 points) Details of financial references are to be entered in Schedule D of the Returnable Schedules.
Clause Number	Tender Data
F.3.12.	The contractor is requested to submit proof of insurances
F.3.13.	Acceptance of Tender Offer A. <i>Add the following:</i> Tender offers will only be accepted if: - the tenderer has in his or her possession an original valid Tax Clearance Certificate issued by the South African Revenue Services or has made arrangements to meet outstanding tax obligations; - the tenderer is registered with the CIDB with an appropriate category of registration; - the tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; - the tenderer has not: - abused the Employer's Supply Chain Management System; or - failed to pay municipal rates and taxes or service charges and such rates, taxes and charges are in arrears for more than three months; - failed to perform on any previous contract and has been given a written notice to this effect; - the tenderer has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the Employer or potentially compromise the tender process. Notification of Decision and Appeal Period If the Supply Chain Management Tender Adjudication Committee has resolved that a tender be accepted, the successful and unsuccessful tenderers shall be notified in writing of this decision. Section 62 of the Local Government Municipal Systems Act 2000 (No. 32 of 2000) gives any person whose rights have been affected by such a decision, the right to appeal such decision within 21 days of notification of the decision. Any tenderer wishing to exercise this right, must submit their appeal in writing to Ms. Barbara Nhlengethwa Project Manager, marked for the attention of the Project Manager. The format of the appeal must: - set out the reasons for the appeal; - state in which way the appellant's rights have been affected by the decision; - state the remedy sought, and - be accompanied by a copy of the notification advising the tenderer of the decision of the Supply Chain Management Tender Adjudication Committee. Tenderers are hereby informed also of their right to request reasons for the decision in terms of the Promotion of Administrative Justice Act (No. 3 of 2000). The notification of the decision sent to the successful tenderer is not acceptance of the tender and no rights shall accrue to the successful tenderer in terms of this notification. The successful tenderer will be notified in writing after 21 days of the notification of any final decision (i.e. Acceptance) or of any developments with respect to the appeal process, and if applicable, procedures for the commencement of the work. The consideration of appeals and if necessary, the invalidation of any decision made, shall be dealt with in terms of the Chief albert Luthuli local Municipality's appeals process.
F.3.17	Provide Copies of the Contracts <i>Add the following:</i> The number of paper copies of the signed contract to be provided by the Employer is one.



T1.2.3 Additional Conditions of Tender

The additional conditions of tender are:

T1.2.3.1 Compliance with Occupational Health and Safety Act 1993

Tenderers are to note the requirements of the Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations 2003 issued in terms of Section 43 of the Act. The tenderer shall be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all costs in compliance therewith.

In this regard the Tenderer shall submit with the tender, appended to Schedule B5, a detailed Health and Safety Plan in respect of the Works in order to demonstrate the necessary competencies and resources to perform the construction work all in accordance with the Act and Regulations. Such Health and Safety Plan shall cover *inter-alia* the following details:

- 1) Management Structure, Site Supervision and Responsible Persons including a succession plan.
- 2) Contractor's induction training programme for employees, sub-contractors and visitors to the Site.
- 3) Health and safety precautions and procedures to be adhered to in order to ensure compliance with the Act, Regulations and Safety Specifications.
- 4) Regular monitoring procedures to be performed.
- 5) Regular liaison, consultation and review meetings with all parties.
- 6) Site security, welfare facilities and first aid.
- 7) Site rules and fire and emergency procedures.

Tenderers are to note that the Contractor is required to ensure that all sub-contractors or others engaged in the performance of the contract also comply with the above requirements.

The Contractor shall prepare and maintain a Health and Safety File in respect of the project, which shall be available for inspection on Site at all times and handed over to the Employer on Final Completion of the project.

The Contractor is required to submit to the Employer the Occupational Health and Safety Agreement (included in this Contract Document) and a letter of good standing from the Compensation Commissioner, or a licensed compensation insurer, within 14 days after the Commencement Date of the contract.

T1.2.3.2 Eligibility with Respect to Expanded Public Works Programme

This tender qualifies for consideration as an Expanded Public Works Programme project and maximum use of local labour as stated below.

Labour Intensive Construction/use of Local Labour

It is the requirement of the tender that the work be executed in such a manner as to maximise the use Of labour in order to provide the local community with employment opportunities (where applicable).

The contractor will also be required to report monthly on the amount of local labour in accordance with the Municipal infrastructure Grant programme and EPWP programme reporting formats which will be provided to the successful contractor.

T1.2.3.3 Claims Arising after Submission of Tender

No claim for any extras arising out of any doubt or obscurity as to the true intent and meaning of anything shown on the Contract Drawings or contained in the Conditions of Contract, Scope of Work and Pricing Data, will be admitted by the Employer/Employer's Agent after the submission of any tender and the Tenderer shall be deemed to have:

- 1) inspected the Contract Drawings and read and fully understood the Conditions of Contract.
- 2) read and fully understood the whole text of the Scope of Work and Pricing Data and thoroughly acquainted himself with the nature of the works proposed and generally of all matters which may influence the Contract.
- 3) visited the site of the proposed works, carefully examined existing conditions, the means of access to the site, the conditions under which the work is to be done, and acquainted himself with any limitations or restrictions that may be imposed by the Municipal or other Authorities in regard to access and transport of materials and plant to and from the site and made the necessary provisions for any additional costs involved thereby.



- 4) requested the Employer or his duly authorised agent to make clear the actual requirements of anything shown on the Contract Drawings or anything contained in the Scope of Work and Pricing Data, the exact meaning or interpretation of which is not clearly intelligible to the Tenderer.

Before submission of any tender, the Tenderer should check the number of pages, and if any are found to be missing or duplicated, or the figures or writing indistinct, or if the Pricing Data contain any obvious errors, the tenderer must apply to the Employer/Employer's Agent at once to have the same rectified, as no liability will be admitted by the Employer/Employer's Agent in respect of errors in any tender due to the foregoing.

T1.2.3.4 Imbalance in Tendered Rates

In the event of tendered rates or lump sums being declared by the Employer to be unacceptable to it because they are either excessively low or high or not in proper balance with other rates or lump sums, the Tenderer may be required to produce evidence and advance arguments in support of the tendered rates or lump sums objected to. If, after submission of such evidence and any further evidence requested, the Employer is still not satisfied with the tendered rates or lump sums objected to, it may request the tenderer to amend these rates and lump sums along the lines indicated by it.

The Tenderer will then have the option to alter and/or amend the rates and lump sums objected to and such other related amounts as are agreed on by the Employer, but this shall be done without altering the Contract Price.

Should the Tenderer fail to amend the Tender in a manner acceptable to the Employer, the Employer may reject the Tender.

T1.2.3.5 Community Liaison Officer

It is a requirement of this Contract that a Community Liaison officer (CLO) be appointed for the area represented by the Tender. The function of the CLO shall be to represent the local community in matters concerning the use of local labour on the works and to assist with and facilitate communication between the Contractor, the Employer's Agent and the local communities.

The period of appointment of the CLO shall be as stated in the Contract for Temporary Employment as a Community Liaison officer referred to below. The date of commencement of temporary employment of the CLO shall be as agreed with the Employer's Agent.

The identification of the approved CLO to be appointed by the Contractor under the Contract shall be resolved by the Contractor, the particular Ward Councillors in collaboration with the Local Community in the form of a Project Steering Committee. It will be required, therefore, that the successful Tenderer (i.e. the Contractor) enter into a contract for the employment of the above-mentioned CLO, the parties to which will be the Contractor, the Local Authority and the CLO.

To this end a specimen Form of Contract for the Temporary Employment as a Community Liaison Officer is included in this document; this Form of Contract sets out, inter alia, the agreement between the parties, the duties and conditions of employment of the CLO (including the rate of remuneration to be paid).

As said contract will be between the Contractor and the CLO, all costs involved shall be borne by the Contractor and the tender shall be deemed to include for this.

Further to all of the above, the Tenderer/Contractor is referred to the relevant items contained in the Special Conditions of Contract and the relevant Annexure included in the Contract Document

T1.2.3.6 Invalid Tenders

Tenders shall be considered invalid and shall be endorsed and recorded as such in the tender opening record, by the responsible official who opened the tender, in the following circumstances:

- a) if the tender offer is not submitted on the Form of Offer and Acceptance bound into this tender document;
- b) if the tender is not completed in non-erasable ink;
- c) if the offer has not been signed;
- d) if the offer is signed, but the name of the tenderer is not stated or is indecipherable.

T1.2.3.7 Negotiations with Preferred Tenderers

The Employer may negotiate the final terms of a contract with tenderers identified through a competitive tendering process as preferred tenderers provided that such negotiation:

- a) does not allow any preferred tenderer a second or unfair opportunity;
- b) is not to the detriment of any other tenderer; and
- c) does not lead to a higher price than the tender as submitted.

Minutes of any such negotiations shall be kept for record purposes.



T1.2.3.8 General Supply Chain Management Conditions Applicable to Tenders

The successful tenderer will be required to enter into a Performance Management Agreement with the Employer. Tenderers are also required to indemnify the Employer from and against the liabilities stated in this document.

T1.2.3.9 Combating Abuse of the Supply Chain Management Policy

Tenderers are required to complete Schedule T2.2.2 COMPULSORY ENTERPRISE QUESTIONNAIRE in full.

T1.2.3.10 UIF Payments

The Tenderer shall submit to the Employer a letter from the Department of Labour indicating his/her good standing with regard to UIF payments upon being requested to do so.

T1.2.3.11 Registration with Bargaining Council

Tenderers must be registered with a relevant Bargaining Council (if such be in place) and provide the applicable Certificate of Compliance in terms of the relevant Government Gazette.

T1.2.3.12 Price Variations

Refer to Clause 6.8.2 and Clause F.2.10.3 of Contract Data to ascertain whether Contract Price Adjustment will apply to this contract.



CHIEF ALBERT LUTHULI LOCAL MUNICIPALITY



THE TENDER:

PART T2: RETURNABLE DOCUMENTS

PART T2: RETURNABLE DOCUMENTS

T2.1 List of Returnable Documents

The Tenderer must complete the following returnable documents:

- T2.2.1 Record of Addenda to Tender Documents
- T2.2.2 Compulsory Enterprise Questionnaire
- T2.2.3 Authority of Signatory
- T2.2.4 Proposed Amendments and Qualifications
- T2.2.5 Declaration of Interest
- T2.2.6 Preference Points Claim Form (SBD 6.1)
- T2.2.7 Declaration Certificate For Local Production And Content (SBD 6.2)
- T2.2.8 Declaration of Tenderer's Past Supply Chain Management Practices
- T2.2.9 Certificate of Independent Bid Determination
- T2.2.10 Schedule A: Key Personnel/Project Team
- T2.2.11 Schedule B: Work Experience of Tenderer
- T2.2.12 Schedule C: Plant and Equipment
- T2.2.13 Schedule D: Financial Reference
- T2.2.14 Schedule of Proposed Subcontractors
- T2.2.15 Certificate of Tenderers Attendance at the Clarification Meeting
- T2.2.16 Tax Clearance Certificate or a copy of tax compliance status (TCS)
- T2.2.17 B-BBEE Certification
- T2.2.18 Certificate of Contractors Registration issued by the Construction Industry Development Board
- T2.2.19 Form Concerning Fulfilment of The Construction Regulations 2003
- T2.2.20 Occupational Health and Safety Declaration

A check list has been provided to ensure the necessary documents have been submitted. All returnable schedules must be submitted in a **separately bound document** together with the tender document in 1 envelope.



T2.1.1 Check List for Tender Submission

The Tenderer is to indicate in the checkboxes provided that he has completed the required section of the tender document. Completion of this checklist will assist the Tenderer in ensuring that he has attended to all the required items for submission with this tender.

SECTION	DESCRIPTION	COMPLETED		FOR OFFICE USE		
		YES	NO	YES	NO	COMMENT
T2.2.1	Record of Addenda to Tender Documents					
T2.2.2	Compulsory Enterprise Questionnaire					
T2.2.3	Authority of Signatory					
T2.2.4	Proposed Amendments and Qualifications					
T2.2.5	Declaration of Interest					
T2.2.6	Preference Points Claim Form (SBD 6.1)					
T2.2.7	Declaration Certificate for Local Production and Content (SBD 6.2)					
T2.2.8	Declaration of Tenderer's Past Supply Chain Management Practices					
T2.2.9	Certificate of Independent Bid Determination					
T2.2.10	Schedule A: Key Personnel/Project Team					
T2.2.11	Schedule B: Work Experience of Tenderer					
T2.2.12	Schedule C: Plant and Equipment					
T2.2.13	Schedule D: Financial Reference					
T2.2.14	Schedule of Proposed Subcontractors					
T2.2.15	Certificate of Tenderers Attendance at the Clarification Meeting					
T2.2.16	Tax Clearance Certificate or a copy of tax compliance status (TCS)					
T2.2.17	B-BBEE Certification					
T2.2.18	Certificate of Contractors Registration issued by the Construction Industry Development Board					
T2.2.19	Form Concerning Fulfilment of The Construction Regulations 2003					
T2.2.20	Occupational Health and Safety Declaration					



PART T2: RETURNABLE DOCUMENTS

T2.2 Returnable Schedules

T2.2.1 Record of Addenda to Tender Documents

Any Addenda received by the tenderer should be indicated in this schedule (and attached to this page).

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:		
	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Attach additional pages if more space is required.

Signed

Date

Name

Position

Tenderer



T2.2.2 Compulsory Enterprise Questionnaire

The validity of the information supplied in this document will be verified before the contract is awarded to the selected Contractor. The Contractor **must** supply the following information.

The following particulars must be furnished. In the case of a joint venture, separate enterprise questionnaires in respect of each partner must be completed and submitted.

Section 1: Name of enterprise:

Section 2: VAT registration number, if any:

Section 3: CIDB registration number, if any:

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners

Section 5: Particulars of companies and close corporations

Company registration number

Close corporation number

Tax reference number

Section 6: Turnover – Approximate turnover for each of the past three years

Year 2020 R.

Year 2021 R.

Year 2022 R.

Anticipated turnover for 2023 R.

Section 7: Management and manpower resources

Number of Supervisors

Number of Labourers

Number of Operators

Other Personnel (Specify)

Total number permanent employees

Total number contract employees

Signed

Date

Name

Position

Tenderer



T2.2.3 Authority for Signatory

All signatories, **excluding sole proprietors**, shall confirm their authority by **attaching to the separate bound document of returnable schedules** a duly signed and dated original or certified copy of the relevant resolution of their meeting of members or their board of directors, as the case may be, or by completing one of the following:

T2.2.3.1 Companies / Close Corporations

FORM TO BE COMPLETED:

"By resolution of the board of directors or meeting of members passed on ,

(Mr/Me.) has been duly authorised to sign all documents in connection

with the Bid for *Contract number* and any Contract, which may arise there from

on behalf of the Bidding Entity, namely,

SIGNED ON BEHALF OF THE BIDDING ENTITY: NAME:

SIGNATURE:

IN HIS/HERS CAPACITY AS:

DATE:

AUTHORISED PERSON'S SPECIMEN SIGNATURE:

AUTHORISED PERSON'S SPECIMEN INITIAL:

*AND/OR (SIGNATURE). (INITIAL)

*AND/OR (SIGNATURE). (INITIAL)

*AND/OR

*AND/OR

* DELETE WHICH IS NOT APPLICABLE

AS WITNESS: 1.



T2.2.3.2 Certificate of Authority for Joint Ventures

FORM TO BE COMPLETED:

This Returnable Schedule is to be completed by joint ventures.

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise Mr/Ms
. , authorised signatory of the company
. , acting in the capacity of lead partner, to sign all documents in connection with the tender offer
and any contract resulting from it on our behalf.

NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
Lead partner CIDB registration no		Signature. Name Designation.....
 CIDB registration no		Signature. Name Designation.....
 CIDB registration no		Signature. Name Designation.....
 CIDB registration no		Signature. Name Designation.....

Signed

Date

Name

Position

As Witness



T2.2.3.3 Joint Venture Information

(Complete only if applicable)

The parties hereto form a Joint Venture for the purpose of jointly bidding and obtaining the award of contract for "Construction of Badplaas Landfill site at Chief albert Luthuli local Municipality" (hereinafter called the "Project") and of jointly performing such contract under joint and several responsibility.

The share of the partners in the Joint Venture shall be:

Full Name and address of Lead enterprise

.....%

.....

Full Name and address of 2nd enterprise

.....%

.....

Full Name and address of 3rd enterprise

.....%

.....

The Lead Partner is hereby authorised to incur liabilities, receive instructions, payments, sign all documents in connection with the bid, and to be responsible for the entire execution and administration of the contract for and on behalf of the partners.

The parties hereto shall make available to the Joint Venture the technical advice and benefit of their individual experience and shall, in all other respects, endeavour to share the responsibility and burden of the performance of the Joint Venture.

To this end the parties hereto shall share, in the above proportions, in all risks and obligations arising out of or in connection with the Contract, especially in the provisions of all necessary working capital and guarantees, in profit and loss and personnel.

The Lead Partners shall supply, in its name, Professional Liability Insurance for the amount and period as stated in the Contract Data.

The Joint Venture may not be terminated by any of the parties hereto until either:

The contract has been awarded to another bidder

or

The work undertaken by the Joint Venture under the contract has been completed and all liabilities and claims incurred by and made by the Joint Venture have been settled, the bid is cancelled or the period of validity of bid extended.

No party to the Agreement shall be entitled to sell, assign or in any manner encumber or transfer its interest or any part thereof in the Joint Venture without obtaining the prior written consent of the other party hereto.

The Parties of the Joint Venture shall cooperate on an exclusive basis. No Party shall during the validity period of the bid submit a bid to or enter into a Contract with the Chief albert luthuli local Municipality or any other party for the Project, either alone or in collaboration with a third party.

Authorised Signature Lead Partner.....

Name

Designation

Signed at..... on

Authorised Signature of 2nd Partner.....

Name

Designation



Signed at..... on

Authorised Signature of 3rd Partner.....

Name

Designation

Signed at..... on

(ALL SIGNATORIES SHALL CONFIRM THEIR AUTHORITY BY ATTACHING TO THE LAST PAGE OF THE BID, ORIGINAL OR CERTIFIED COPIES OF DATED AND SIGNED RESOLUTIONS OF THE MEMBERS/DIRECTORS/PARTNERS AS THE CASE MAY BE.)



T2.2.4 Proposed Amendments and Qualifications

The Tenderer should record any deviations or qualifications he may wish to make to the tender documents in this Returnable Schedule. Alternatively, a Tenderer may state such deviations and qualifications in a covering letter to his tender and reference such letter in this schedule.

Any and each qualification, which entails an omission from, or alternative to the works shall have the value of such omission or alternative clearly priced. The Employer's Agent may, at his discretion, direct that the works shall be performed as specified, in which case the contract amount shall be adjusted according to the value declared in the associated qualification.

The Tenderer's attention is drawn to clause F.3.8 of the Standard Conditions of Tender referenced in the Tender Data regarding the employer's handling of material deviations and qualifications.

Page	Clause or item	Proposal

If there is insufficient space above, the tenderer may append additional sheets.

Number of additional sheets appended by the tenderer to this Schedule (If nil, enter NIL)

Signed

Date

Name

Position

Tenderer



T2.2.5 Bidder's Disclosure

SBD 4

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

1.3.1 If so, furnish particulars:

.....
.....

3 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

3.1 I have read and I understand the contents of this disclosure;

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.



- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.
I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

² Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.



T2.2.6 Preference Points Claim Form

SBD 6.1

**PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL
PROCUREMENT REGULATIONS 2022**

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 **Preference Points System to be applied (tick whichever is applicable).**

- ☐ The applicable preference point system for this tender is the **80/20** preference point system.
- ☐ The applicable preference point system for this tender is the **90/10** preference point system.
- ☐ Either the **90/10 or 80/20** preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 **Points for this tender shall be awarded for:**

1.3.1 **Price; and**

1.3.2 **Specific Goals**

1.4 **The maximum points for this tender are allocated as follows:**

CHOOSE APPLICABLE PREFERENCE POINT SCORING SYSTEM	☒ 80/20	☐ 90/10
PRICE	80	90
SPECIFIC GOALS	20	10
Total points for Price and Specific Goals	100	100

1.5 **Breakdown Allocation of Specific Goals Points**

1.5.1 For Procurement transactions with rand value greater than R2 000.00 and up to R1 Million (Inclusive of all applicable taxes), the specific goals as listed in table 1 below are applicable.

All Acquisitions
Table 1



Serial No	Specific Goals	Preference Points allocated out of 20	Documentation to be submitted by bidders to validate their claim for points
1.	An EME or QSE which is at least 51% owned by black people	10	- ID Copy Or - SANAS Accredited BBBEE Certificate or sworn affidavit where applicable Or - CSD Report Or - CIPC (company registration)
2.	Located in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area	2	- ID Copy (Mandatory) - Office Municipal Rates Statement Or - Permission To Occupy from local chief in case of rural areas (PTO) Or - Lease Agreement
3.	An EME or QSE which is at least 51% owned by women	4	- ID Copy Or - CSD Report Or - CIPC (company registration)
4.	An EME or QSE which is at least 51% owned by people with disability	2	- ID Copy (Mandatory) Or - Medical Certificate Or - South African Social Security Agency (SASSA) registration Or - National Council for Persons with Physical Disability in South Africa registration (NCPDPA) Or - CSD Report Or - CIPC (company registration)
5.	An EME or QSE which is at least 51% owned by youth .	2	- ID Copy Or - CSD Report Or - CIPC (company registration)

1.5.2 For procurement transactions with rand value greater than R1 Million and up to R50 Million (Inclusive of all applicable taxes) the specific goals as listed in table 2 below are applicable:

All Acquisitions

Table 2

Serial No	Specific Goals	Preference Points allocated out of 20	Documentation to be submitted by bidders to validate their claim for points
1.	An EME or QSE or any entity which is at least 51% owned by Historically Disadvantaged Individuals (HDI)	10	- ID Copy Or - SANAS Accredited BBBEE Certificate or sworn affidavit where applicable Or - CSD Report Or - CIPC (company registration)
2.	Located in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area	2	- ID Copy (Mandatory) Or - Office Municipal Rates Statement Or - Permission To Occupy from local chief in case of rural areas (PTO) Or - Lease Agreement
3.	An EME or QSE or any entity which is at least 51% owned by women	4	- ID Copy Or - CSD Report Or - CIPC (company registration)



Serial No	Specific Goals	Preference Points allocated out of 20	Documentation to be submitted by bidders to validate their claim for points
4.	An EME or QSE or any entity which is at least 51% owned by people with disability	2	- ID Copy (Mandatory) Or - Medical Certificate Or - South African Social Security Agency (SASSA) registration Or - National Council for Persons with Physical Disability in South Africa registration (NCPDPSA) Or - CSD Report Or - CIPC (company registration)
5.	An EME or QSE or any entity which is at least 51% owned by youth .	2	- ID Copy Or - CSD Report Or - CIPC (company registration)

1.5.3 For procurement transactions with rand value greater than R50 Million (Inclusive of all applicable taxes) the specific goals as listed in table 3 below are applicable

All Acquisitions

Table 3

Serial No	Specific Goals	Preference Points allocated out of 10	Documentation to be submitted by bidders to validate their claim for points
1.	An EME or QSE or any entity which is at least 51% owned by Historically Disadvantaged Individuals (HDI)	4	- ID Copy Or - SANAS Accredited BBBEE Certificate or sworn affidavit where applicable Or - CSD Report Or - CIPC (company registration)
2.	Located in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area	2	- ID Copy (Mandatory) Or - Office Municipal Rates Statement Or - Permission To Occupy from local chief in case of rural areas (PTO) Or - Lease Agreement
3.	An EME or QSE or any entity which is at least 51% owned by women	2	- ID Copy - CSD Report Or - CIPC (company registration)
4.	An EME or QSE or any entity which is at least 51% owned by people with disability OR An EME or QSE or any entity which is at least 51% owned by youth.	2	- ID Copy (Mandatory) Or - Medical Certificate Or - South African Social Security Agency (SASSA) registration Or - National Council for Persons with Physical Disability in South Africa registration (NCPDPSA) - ID Copy - CSD Report Or - CIPC (company registration)

1.6 Failure on the part of the tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals, if the service provider/ tenderer did not submit proof or documentation required to claim for specific goals will be interpreted to mean that preference points for specific goals are not claimed.

1.7 The organ of state reserves the right to require of a service provider/tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.



stated in the conditions of this tender:

- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system, then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.)

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
1. An EME or QSE or any entity which is at least 51% owned by Historically Disadvantaged Individuals (HDI)	4	10		
2. Located in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area	2	2		
3. An EME or QSE or any entity which is at least 51% owned by women	2	4		
4. An EME or QSE or any entity which is at least 51% owned by people with disability or	2	2		
5. An EME or QSE or any entity which is at least 51% owned by youth .*	2	2		
(only one specific goal is applicable between specific goal number 4 and specific goal number 5 under 90/10 Preference Point System)				

Note: *in respect of the 90/10 point system a selection of either disability or youth may be made with an allocation of 2 points for either of them.



5. DECLARATION WITH REGARD TO COMPANY/FIRM

5.1. Name of company/firm.....

5.2. Company registration number:

5.3. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Public Company
- ☐ Personal Liability Company
- ☐ (Pty) Limited
- ☐ Non-Profit Company
- ☐ State Owned Company

[TICK APPLICABLE BOX]

5.4. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

Declaration

The tenderer declares that

- a) the tendering entity is a level contributor as stated in the submitted evidence of qualification as at the closing date for submissions
- b) the tendering entity has been measured in terms of the following code (tick applicable box)
 - ☐ Generic code of good practice
 - ☐ Other – specify



- c) the contents of the declarations made in terms of a) and b) above are within my personal knowledge and are to the best of my belief both true and correct

The undersigned, who warrants that he / she is duly authorized to do so on behalf of the tenderer, confirms that he / she understands the conditions under which such preferences are granted and confirms that the tenderer satisfies the conditions pertaining to the granting of tender preferences.

Signature:

Name:

Duly authorised to sign on behalf of:

Telephone:

Fax: Date:

Name of witness Signature of witness

Note:

- 1) Failure to complete the declaration will lead to the rejection of a claim for a preference. Supporting documentation of the abovementioned claim for a preference must be submitted with the tender submission to be eligible for a preference. (see Clause 5.11.8 in Tender Data)

.....
SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME:

DATE:

ADDRESS:

.....

.....



T2.2.7 Declaration Certificate For Local Production And Content (SBD 6.2)

This Standard Bidding Document (SBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) make provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, organs of state must advertise such tenders with the specific bidding condition that only locally produced or manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as indicated in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on [http://www.thedti.gov.za/industrial development/ip.jsp](http://www.thedti.gov.za/industrial%20development/ip.jsp) at no cost.

- 1.6. A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation;



2. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:

<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold</u>
Use of Local SMME's	25%
Fabricated Structural Steel	100%
Joining/Connecting Components	100%
Roof and Cladding	100%
Fasteners	100%
Wire Products	100%
Ducting and Structural Steelwork	100%
Gutters, downpipes & lauders	100%
Plates	100%
Sections	100%
Reinforcing bars	100%
Electrical and Telkom Cables	
Power Cables - Low Voltage	90%
Low Cost Reticulation	90%
Valves products and actuators	70%
Residential Electricity Meters - Post Paid	70%
Pumps, Medium Voltage (MV) Motor and Associated Accessories	70%
Check Valves-Low pressure (80mm-3500mm) PN6 - PN25	70%
Ball Valves-Low pressure (20mm-300mm) PN10 - PN25	70%
Gate Valves-Low pressure (15mm-1800mm) PN6 - PN25	70%
Taps, Cocks-Low pressure (Full Range)	70%
Fire Hydrants (Underground) Fire Deluge Valve	70%
Pressure Reducing Valve (PRV) (Self-Regulating Valve)	70%
Air valve (Vacuum release valve)	70%

CIDB CLASSES OF WORKS	
CODE	CLASSES OF WORK
GB	General Building
CE	Civil Engineering
EB	Electrical Engineering Works - Building
ME	Mechanical Engineering
SC	Building excavations, lateral earth support
SF	Fire prevention and protection systems
SL	Structural steelwork fabrication and erection

3. Does any portion of the goods or services offered have any imported content? **(Tick applicable box)**

YES		NO	
-----	--	----	--

- 3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the bid.



The relevant rates of exchange information is accessible on www.reservebank.co.za

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

- Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.



LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO. ISSUED BY: CHIEF ALBERT LUTHULI LOCAL MUNICIPALITY

NB

1. The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
2. Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on http://www.thdti.gov.za/industrial_development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned,(full names),

Do hereby declare, in my capacity as
of

(name of Tenderer entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
- (c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content % as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above.

The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

- (d) I accept that the Procurement Authority / Municipality /Municipal Entity has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (e) I understand that the awarding of the tender is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Municipal / Municipal Entity imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE:

DATE:

WITNESS No. 1.....

DATE:

WITNESS No. 2.....

DATE:



T2.2.8 Declaration of Tenderer's Past Supply Chain Management Practices

SBD 8

1. This Standard Bidding Document must form part of all bids invited.
2. It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
3. The bid of any bidder may be rejected if that bidder, or any of its directors have:
 - a) abused the municipality's / municipal entity's supply chain management system or committed any improper conduct in relation to such system;
 - b) been convicted for fraud or corruption during the past five years;
 - c) wilfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
 - d) been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).
4. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

Item	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury's database as a company or person prohibited from doing business with the public sector? (Companies or persons who are listed on this database were informed in writing of this restriction by the National Treasury after the <i>audi alteram partem</i> rule was applied).	Yes ☐	No ☐
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? (To access this Register enter the National Treasury's website, www.treasury.gov.za, click on the icon "Register for Tender Defaulters" or submit your written request for a hard copy of the Register to facsimile number (012) 3265445).	Yes ☐	No ☐
4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes ☐	No ☐
4.3.1	If so, furnish particulars:		

Item	Question	Yes	No
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes ☐	No ☐
4.4.1	If so, furnish particulars:		



4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes ☐	No ☐
4.7.1	If so, furnish particulars:		

Certification:

I, the undersigned (full name) certify that the information furnished on this declaration form true and correct.

I accept that, in addition to cancellation of a contract, action may be taken against me should this declaration prove to be false.

Signed Date

Name Position

Tenderer



T2.2.9 Certificate of Independent Bid Determination

SBD 9

CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Standard Bidding Document (SBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
 - a. take all reasonable steps to prevent such abuse;
 - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
- 4 This SBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (SBD 9) must be completed and submitted with the bid:

¹ Includes price quotations, advertised competitive bids, limited bids and proposals.

² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.



CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

CHIEF ALBERT LUTHULI LOCAL MUNICIPALITY

(Name of Institution)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: _____ that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.



-
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.



T2.2.10 Schedule A:Key Personnel/Project Team

The Tenderer shall list below the key personnel, whom he proposes to employ on the project should his Bid be accepted, both at his headquarters and on the Site, to direct and for the execution of the work, together with their qualifications, experience, positions held and value of the work undertaken.

Item	Description	Maximum points to be allocated	Points scored by Evaluators
1	Contracts Manager currently employed full/part time by the bidder with a minimum of 5 years Building/Civil work experience related to landfill site/waste transfer Infrastructure, must be in possession of: 1. Signed CV indicating current employer and work experience plus 2. Certified copy (Not older than 6 Months) of Certificate or above in Project Management Plus 3. Certified copy of both National Diploma / Degree and Professional registration with Engineering Council of South Africa (ECSA) certificate. Failure to provide both will result in zero points. Name & Surname: <i>(Full-time = Full points) and (Part-time = Half points)</i>	7.5	
2	Full-time Technician / Site Supervisor or level above with minimum of 5 years Building/Civil work experience related to landfill site/waste transfer Infrastructure. And must be in possession of: 1. Signed CV indicating current employer and work experience plus, 2. Certified Copies (Not older than 6 Months) of N6 National Diploma or university of technology National Diploma Name & Surname: <i>(Full-time = Full points) and (Part-time = Zero points)</i>	5	
3	1 x Full-time Electrician or level above with minimum of 3 years electrical work experience related to landfill site/waste transfer Infrastructure. And must be in possession of: 1. Signed CV indicating current employer and work experience plus, 2. Certified Copies (Not older than 6 Months) of Trade Test Certificate 3. and Wireman's Licence. Trade Test Certificate and Wireman's Licence (3 phase and single phase wireman's licence) from two separate personnel will be accepted. Name & Surname: <i>(Full-time = Full points) and (Part-time = Zero points)</i>	2.5	
4	1 x Full-time Plumber Artesian or level above with minimum of 3 years mechanical work experience related to landfill site/waste transfer Infrastructure. And must be in possession of: 1. Signed CV indicating current employer and work experience plus, 2. Certified Copies (Not older than 6 Months) of Trade Test Certificate Name & Surname: <i>(Full-time = Full points) and (Part-time = Zero points)</i>	2.5	
5	1 x Full-time Carpenter Artesian or level above with minimum of 3 years mechanical work experience related to landfill site/waste transfer Infrastructure. And must be in possession of: 1. Signed CV indicating current employer and work experience plus,	2.5	



T2.2 Returnable Schedules

	2. Certified Copies (Not older than 6 Months) of Trade Test Certificate		
6	1 x Full-time Welder/Fabricator Artesian or level above with minimum of 3 years mechanical work experience related to general building infrastructure. And must be in possession of: 1. Signed CV indicating current employer and work experience plus, 2. Certified Copies (Not older than 6 Months) of Trade Test Certificate	2.5	
7	Company Organogram (<i>Indicating the roles of all the key personnel above. Mismatching will results in zero points</i>).	2.5	
	SUB TOTAL	25	

Signed

Date

Name

Position

Tenderer



Contracts Manager

Name:		Date of Birth:	
Profession:		Nationality:	
Qualifications:			
Professional Registration Number:			
Name of Employer (firm):			
Current Position:		Years with Firm:	
Employment Record:			
Experience Record Pertinent to Required Service:			
Related Project:			
Related Project:			
Related Project:			

.....
Date



Name:		Date of Birth:	
Profession:		Nationality:	
Qualifications:			
Professional Registration Number:			
Name of Employer (firm):			
Current Position:		Years with Firm:	
Employment Record:			
Experience Record Pertinent to Required Service:			
Related Project:			
Related Project:			
Related Project:			

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....
Date



Name:		Date of Birth:	
Profession:		Nationality:	
Qualifications:			
Professional Registration Number:			
Name of Employer (firm):			
Current Position:		Years with Firm:	
Employment Record:			
Experience Record Pertinent to Required Service:			
Related Project:			
Related Project:			
Related Project:			

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....
Date



Name:		Date of Birth:
Profession:		Nationality:
Qualifications:		
Professional Registration Number:		
Name of Employer (firm):		
Current Position:		Years with Firm:
Employment Record:		
Experience Record Pertinent to Required Service:		
Related Project:		
Related Project:		
Related Project:		

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....
Date



Name:		Date of Birth:	
Profession:		Nationality:	
Qualifications:			
Professional Registration Number:			
Name of Employer (firm):			
Current Position:		Years with Firm:	
Employment Record:			
Experience Record Pertinent to Required Service:			
Related Project:			
Related Project:			
Related Project:			

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....
Date



Name:		Date of Birth:	
Profession:		Nationality:	
Qualifications:			
Professional Registration Number:			
Name of Employer (firm):			
Current Position:		Years with Firm:	
Employment Record:			
Experience Record Pertinent to Required Service:			
Related Project:			
Related Project:			
Related Project:			

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....
Date



Name:		Date of Birth:
Profession:		Nationality:
Qualifications:		
Professional Registration Number:		
Name of Employer (firm):		
Current Position:		Years with Firm:
Employment Record:		
Experience Record Pertinent to Required Service:		
Related Project:		
Related Project:		
Related Project:		

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....
Date



T2.2.11 Schedule B: Work Experience of Tenderer

Provide the following information on **relevant previous experience**. Indicate comparable projects in Building Construction work related to landfill site/waste transfer station executed in the past 8 years. This information is material to the award of the Contract.

No points will be awarded if reference cannot be reached or if it refuses to supply information. Give at least two (2) names and telephone numbers and e-mail address per reference.

Completion certificates or a verification letter of successful completion by the client must be **attached in the separately bound document with all the returnable schedules**.

THE FOLLOWING TABLE MUST BE COMPLETED

EMPLOYER (Name, Tel no and Email)	CONSULTING AGENT (Name, Tel no and Email)	EMPLOYER'S NATURE OF WORK CARRIED OUT PREVIOUSLY	VALUE OF WORK	YEAR OF COMPLETION
PROJECT 1:				
Name 1:	Name 1:	Related Works:		
Tel:	Tel:	Description:		
Email:	Email:			
Name 2:	Name 2:			
Tel:	Tel:			
Email:	Email:			

PROJECT 2:				
Name 1:	Name 1:	Related Works		
Tel:	Tel:	Description:		
Email:	Email:			
Name 2:	Name 2:			
Tel:	Tel:			
Email:	Email:			
PROJECT 3				
Name 1:	Name 1:	Related Works:		



Tel:	Tel:	Description:		
Email:	Email:			
Name 2:	Name 2:			
Tel:	Tel:			
Email:	Email:			

PROJECT 4				
Name 1:	Name 1:	Related Works:		
Tel:	Tel:	Description		
Email:	Email:			
Name 2:	Name 2:			
Tel:	Tel:			
Email:	Email:			

PROJECT 5	Name 1:	Related Works:		
Name 1:	Tel:	Description:		
Tel:	Email:			
Email:	Name 2:			
Name 2:	Tel:			
Tel:	Email:			
Email:				



T2.2.12 Schedule C: Plant and Equipment

Tenderers shall state below what construction plant will be available for this Contract. The tenderer shall differentiate, if applicable, between construction plant immediately available and construction plant which will become available by virtue of outstanding orders, and indicate what further construction plant will be acquired or hired for the work should the tenderer be awarded the Contract.

- a) Details of major equipment that is owned by and immediately available for this contract.

<u>List of Expected Plant</u>	Min	Max
1 LDV Bakkie/ or suitable (a must)	15	20
10m long 3m high scaffolding		
5m ³ skip		
Crane		
TLB		
Tipper Truck		
Water Bowser		
Roller Compactor		
Grader/Dozer		
4.5 kVA Power Generator		

- b) Details of major equipment that will be hired, or acquired for this contract if my/our tender is acceptable. Letter of intent/agreement from hiring company must be attached in the separately bound document with all the returnable schedules.

Scoring		Error! Reference source not found.
Poor	0	The tenderer does not own any of the relevant equipment and cannot assure the use of hired plant and equipment during the contract period. Or the tenderer has provided a list of plant which is not relevant to the project.
Satisfactory	10	The tenderer does not own any of the relevant equipment, but can furnish proof that an agreement is in place to hire the required plant and equipment during the contract period.
Good	15	The tenderer owns 50% to 70% of the required plant and equipment and can furnish proof that an agreement is in place to hire the outstanding plant and equipment during the contract period.
Very Good	20	The tenderer owns above 70% of the required plant and equipment and can furnish proof that an agreement is in place to hire the outstanding plant and equipment during the contract period.



Signed _____ Date _____

Name _____ Position _____

Tenderer _____



T2.2.13 Schedule D: FINANCIAL RESOURCES BANKING INFORMATION

The tenderer will receive a maximum of 10 points based on information provided in this schedule.

Item	Description	Maximum Points to be allocated	Points scored by Evaluators
1	Bank rating of "C" or better (stamped bank letter, not older than 3 Months). The letter must make reference to the amount of R5 million. Or else no point to be awarded. <i>For JV: The lead partner must comply with the above requirement. Failure to adhere will results in zero points.</i>	C or better = 5 D and lower = 0	
2	Proof of valid Public Liability, Insurance of works and Third-party insurance. The limit of indemnity for liability insurance is R10m. <i>For JV: The lead partner must comply with the above requirement. Failure to adhere will results in zero points.</i>	5	
SUB TOTAL		10	

DETAILS OF TENDERERS BANKING INFORMATION

Notes to tenderer:

- The tenderer shall attach to this form a letter of intent for 10% bank guarantee.
- In the event that the tenderer is a joint venture enterprise, the bank guarantee will be expected from the Lead Partner.

BANK NAME:											
ACCOUNT NAME: (e.g. ABC Civil Construction cc)											
ACCOUNT TYPE: (e.g. Savings, Cheque etc.)											
ACCOUNT NO:											
ADDRESS OF BANK:											
CONTACT PERSON:											
TEL. NO. OF BANK / CONTACT:											
How long has this account been in existence:	<table border="1"> <tr> <td>0-6 months</td> <td></td> </tr> <tr> <td>7-12 months</td> <td></td> </tr> <tr> <td>13-24 months</td> <td></td> </tr> <tr> <td>More than 24 months</td> <td></td> </tr> </table>	0-6 months		7-12 months		13-24 months		More than 24 months		(Tick which is appropriate)	
0-6 months											
7-12 months											
13-24 months											
More than 24 months											



**FINANCIAL RESOURCES DECLARATION OF PROCUREMENT ABOVE
R 10 MILLION (MBD5)**

For all procurement expected to exceed R10 million (all applicable taxes included), tenderer must complete the following questionnaire:

- Are you by law required to prepare annual financial statements for auditing? **YES / NO**

1.1 If yes, submit audited financial statements for the past three years or since the date of establishment if established during the past three years.

.....
.....

2. Do you have any outstanding undisputed commitments for municipal services towards any municipal for more than three months or any other service provider in respect of which payments is overdue for more than 30 days? **YES / NO**

.....
.....

2.1 If no, this serves to certify that the tenderer has no undisputed commitments for municipal services towards any municipality for more than three months or other service provider in respect of which payment is overdue for then 30 days?

.....
.....

2.2 If yes, please provide particulars

.....
.....

3.1 Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract?

YES / NO

.....
.....

a. If yes, furnish particulars

.....
.....



4. Will any portion of goods or services be sourced from outside the Republic, and, if so, what portion of payment from the municipality / /municipal entity is expected to be transferred out of the Republic?
YES / NO

4.1 If yes, furnish particulars

.....
.....

CERTIFICATION

I, THE UNDERSIGNED (NAME)

CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS CORRECT.

I ACCEPT THAT THE STE MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE

Signature

Date

Capacity under which Tender is
Signed

Name of Tenderer



**FINANCIAL RESOURCES DOCUMENTATION OF INTENT TO PROVIDE A
PERFORMANCE GUARANTEE**

**PRO-FORMA FOR A PERFORMANCE
GUARANTEE**

Employer
(Name and Address)

Contract No

Contract Title

WHEREAS

(hereinafter referred to as "the Employer") entered into, a Contract with:

(hereinafter called "the
Contractor")

on the _____ day of _____ 20 _____

for the construction of (Contract Title)

at _____

AND WHEREAS it is provided by such Contract that the Contractor shall provide the Employer with security by way of a guarantee for the due and faithful fulfilment of such Contract by the Contractor;

AND WHEREAS WE _____ (hereinafter referred to as "the

Guarantor") has/have at the request of the Contractor, agreed to give such guarantee;

NOW THEREFORE WE do hereby guarantee and bind ourselves jointly and severally as Guarantor and Co-Principal Debtor to the Employer under renunciation of the benefits of division and exclusion for the due and faithful performance by the Contractor of all the terms and conditions of the said Contract, subject to the following conditions:

- 1) The Employer shall, without reference and/or notice to us, have complete liberty of action to act in any manner authorized and/or contemplated by the terms of the said Contract, and/or to agree to any modifications, variations, alterations, directions or extension of the Completion Date of the Works under the said Contract, and that its rights under this guarantee shall in no way be prejudiced nor or liability hereunder be affected by reason of any steps which the Employer may take under such Contract, or of any modification, variation, alterations of the Completion Date which the Employer may make, give, concede or agree to under the said Contract.
- 2) This guarantee shall be limited to payment of a sum of money.
- 3) The Employer shall be entitled, without reference to us, to release any guarantee held by it, and to give time to or compound or make any other arrangement with the Contractor.

However, upon receipt by us of an authenticated copy of the Certificate of Completion in terms of the Contract, the amount of liability shall be reduced by 50% which shall be in force until the issue of the Final Approval Certificate at expiry of the Defects Liability Period



This guarantee shall remain in full force and effect until the issue of the Certificate of Completion in terms of the Contract, unless we are advised in writing by the Employer before the issue of the said Certificate of Completion

- 4) His intention to institute claims, and the particulars thereof, in which event this guarantee shall remain in full force and effect until all such claims have been paid of liquidated,
- 5) Our total liability hereunder shall not exceed the sum of

_____ (in words)

R _____ (in figures)
(10% of the tender sum) that amount I/we agree to hold at your disposal.

- 6) The Guarantor reserves the right to withdraw from this guarantee by depositing the Guaranteed Sum with the beneficiary, whereupon the Guarantor's liability hereunder shall cease.

I/We declare that I/we, on behalf of the Guarantor, waive the legal exceptions available to a guarantor and undertake to pay the said amount or such portion thereof as may be demanded, immediately on receipt of a written demand from you.

A certificate under your hand shall be sufficient and satisfactory evidence as to the amount of the Guarantor's liability for the purpose of enabling provisional sentence or any similar relief to be obtained against the Guarantor.

This guarantee is neither negotiable nor transferable, and must be surrendered to the Guarantor in the event of the full amount of the Guarantee being paid to the Employer.

- 7) I/We hereby choose our address for the serving of all notices for all purposes arising here from as

IN WITNESS WHEREOF this guarantee has been executed by us at

_____ on the _____ day of _____ 20____

As witness:

1. _____

Signature

2. _____

Signature

Duly authorised to sign on behalf of (Guarantor)

Address



Signed _____ Date _____

Name _____ Position _____

Tenderer _____



T2.2.14 Schedule of Proposed Local Subcontractors

Provide details on all the work you intend to sub-contract on this contract:

LOCAL SUBCONTRACTORS		
Work Type	Items of work (pay items) to be undertaken by the Subcontractor	Estimated Cost of Work (Rand)
A) SUBTOTAL FOR LOCAL SUB-CONTRACTORS (Excluding VAT) R		
B) TOTAL CONTRACT VALUE (Excluding VAT) R		
PERCENTAGE OF CONTRACT VALUE FOR LOCAL SUB-CONTRACTORS		

If there is insufficient space above, the tenderer may append additional sheets.

Number of additional sheets appended by the tenderer to this Schedule (If nil, enter NIL)

The tendered unit rates for the various items of work shall remain final and binding, even in the event of a subcontractor not listed above being approved by the Employer's Agent.

Tenderers must ensure that the amount of sub-contractor work correlates with the percentage provided in Schedule T2.2.6 Preference Points Claim Form (SBD 6.1) and will be subject to the conditions contained therein. It is a requirement of this contract that the appointed subcontractor shall subcontract between 15% and 30% of the work. The subcontract value shall include local labour, local resources and certain work packages.



Should the actual percentage of the Contract Value for Local Sub-Contractors be less than stated in this form the Employer reserves the right to deduct an amount from the payment due to the contractor by applying a deduction formula as contained in the Contract Data.

Signed

Date

Name

Position

Tenderer

SUBCONTRACTING AFTER AWARD OF TENDER

12. (1) A person awarded a contract may only enter into a subcontracting arrangement with the approval of the organ of state.

(2) A person awarded a contract in relation to a designated sector, may not subcontract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.

(3) A person awarded a contract may not subcontract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level of contributor than the person concerned, unless the contract is subcontracted to an EME that has the capability and ability to execute the subcontract.



T2.2.15 Certificate of Tenderers Attendance at the Clarification Meeting

This is to certify that I, *(name in print)*,

representative of (Tenderer).....

.....

of (address).....

.....

.....

Telephone number

Fax number

visited and inspected the Site / Attended Clarification Meeting on (date)

in the company of (Employer's Agent/Employer's Agent's Representative)
.....

SIGNATURE OF TENDERER'S REPRESENTATIVE:



T2.2.16 Tax Clearance Certificate

TAX CLEARANCE CERTIFICATE REQUIREMENTS

It is a condition of bid that the taxes of the successful bidder must be in order, or that satisfactory arrangements have been made with South African Revenue Service (SARS) to meet the bidder's tax obligations.

1 In order to meet this requirement bidders are required to complete in full the attached form TCC 001 "Application for a Tax Clearance Certificate" and submit it to any SARS branch office nationally. The Tax Clearance Certificate Requirements are also applicable to foreign bidders / individuals who wish to submit bids.

2 SARS will then furnish the bidder with a Tax Clearance Certificate that will be valid for a period of 1 (one) year from the date of approval.

3 The original Tax Clearance Certificate must be submitted together with the bid. Failure to submit the original and valid Tax Clearance Certificate will result in the invalidation of the bid. Certified copies of the Tax Clearance Certificate will not be acceptable.

4 In bids where Consortia / Joint Ventures / Sub-contractors are involved, each party must submit a separate Tax Clearance Certificate.

5 Copies of the TCC 001 "Application for a Tax Clearance Certificate" form are available from any SARS branch office nationally or on the website www.sars.gov.za.

6 Applications for the Tax Clearance Certificates may also be made via eFiling. In order to use this provision, taxpayers will need to register with SARS as eFilers through the website www.sars.gov.za



ATTACH TAX CLEARENCE CERTIFICATE / TAX COMPLIANCE STATUS (TCS) DOCUMENT.



T2.2.17 B-BBEE Certification

Tenderers Company Name	
B-BBEE Level	
Expiry Date	

A copy of the B-BBEE Certificate must be attached in the **separately bound document with all the returnable schedules.**

Signed

Date

Name

Position

Tenderer



T2.2.18 Certificate of Contractors Registration Issued by the Construction Industry Development Board

The Tenderer shall attach **in the separately bound document with all the returnable schedules**, the Contract's Certificate of Registration with CIDB. Failure to submit the certificate with the tender document will lead to the conclusion that the Tenderer is not registered with the CIDB and therefore not eligible to tender.

Tenderers who have made application to CIDB for registration and are capable of being so registered prior to the evaluation of submission must attach a notification from CIDB that their application is being considered.

Tenderers Company Name	
CIDB Registration Number	
Contractors Grading	

Signed

Date

Name

Position

Tenderer



T2.2.19 Form Concerning Fulfilment of The Construction Regulations 2003

In terms of regulation 4(3) of the Construction Regulations, 2003 (hereinafter referred to as the Regulations), promulgated on 18 July 2003 in terms of Section 43 of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) the Employer shall not appoint a contractor to perform construction work unless the Contractor can satisfy the Employer that his/her firm has the necessary competencies and resources to carry out the work safely and has allowed adequately in his/her tender for the due fulfilment of all the applicable requirements of the Act and the Regulations.

1. I confirm that I am fully conversant with the Regulations and that my company has (or will acquire/procure) the necessary competencies and resources to timeously, safely and successfully comply with all of the requirements of the Regulations. (Tick)

YES	
NO	

2. Proposed approach to achieve compliance with the Regulations (Tick)

Own resources, competent in terms of the Regulations (refer to 3 below)	
Own resources, still to be hired and/or trained (until competency is achieved)	
Specialist subcontract resources (competent) - specify:	
.....	
.....	
.....	
.....	
.....	
.....	

3. Provide details of proposed key persons, competent in terms of the Regulations, who will form part of the Contract team as specified in the Regulations (CVs to be attached):

.....

.....

.....

4. Provide details of proposed training (if any) that will be undergone:

.....

.....

.....

.....

5. Potential key risks identified and measures for addressing risks:

.....

.....

.....

.....

6. I have fully included in my tendered rates and prices (in the appropriate payment items provided in the Schedule of Quantities) for all resources, actions, training and any other costs required for the due fulfilment of the Regulations for the duration of the construction and defects repair period. (Tick)



YES	
NO	

Signed

Date

Name

Position

Tenderer



T2.2.20 Occupational Health and Safety Declaration

CONTRACTOR'S HEALTH AND SAFETY DECLARATION

In terms of Clause 4(4) of the OHSA 1993 Construction Regulations 2003 (referred to as "the Regulations" hereafter), a Contractor may only be appointed to perform construction work if the Employer is satisfied that the Contractor has the necessary competencies and resources to carry out the work safely in accordance with the Occupational Health and Safety Act No 85 of 1993 and the OHSA 1993 Construction Regulations 2003.

To that effect a person duly authorized by the tenderer must complete and sign the declaration hereafter in detail.

Declaration by Tenderer

1. I the undersigned hereby declare and confirm that I am fully conversant with the Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and the OHSA 1993 Construction Regulations 2003.
2. I hereby declare that my company / enterprise has the competence and the necessary resources to safely carry out the construction work under this contract in compliance with the Construction Regulations and the Employer's Health and Safety Specifications.
3. I hereby undertake, if my tender is accepted, to provide a sufficiently documented Health and Safety Plan in accordance with Regulation 5(1) of the Construction Regulations, approved by the Employer or his representative, before I will be allowed to commence with construction work under the contract. I hereby agree that my company/enterprise will not have a claim for compensation for delay or extension of time because of my failure to obtain the necessary approval for the said safety plan.
4. I confirm that copies of my company's approved Health and Safety Plan, the Employer's Safety Specifications as well as the OHSA 1993 Construction Regulations 2003 will be provided on site and will at all times be available for inspection by the Contractor's personnel, the Employer's personnel, the Engineer, visitors, and officials and inspectors of the Department of Labour.
5. I hereby confirm that adequate provision has been made in my tendered rates and prices in the bill of quantities to cover the cost of all resources, actions, training and all health and safety measures envisaged in the OHSA 1993 Construction Regulations 2003, including the cost for specific items that may be scheduled in the bill of quantities.
6. I hereby confirm that I will be liable for any penalties that may be applied by the Employer in terms of the said Regulations for failure on my part to comply with the provisions of the Act and the Regulations as set out in Regulation 30 of the Regulations.
7. I agree that my failure to complete and execute this declaration to the satisfaction of the Employer will mean that I am unable to comply with the requirements of the OHSA 1993 Construction Regulations 2003, and accept that my tender will be prejudiced and may be rejected at the discretion of the Employer.
8. I am aware of the fact that, should I be awarded the contract, I must submit the notification required in terms of Regulation 3 of the OHSA 1993 Construction Regulations 2003 (*example attached hereafter*) before I will be allowed to proceed with any work under the contract.

SIGNATURE: IDENTITY NUMBER:

(of person authorised to sign on behalf of the Tenderer)

DATE:.....



The following documentation should also be provided with the tender:

1. **Management Structure including organogram.**
2. **Human Resource Plan.**
3. **Registration with Workman's Compensation / Letter of Good Standing from the Compensation Commissioner or licensed compensation insurer.**

Declaration

I/we Declare that the above information provided is correct.

Signed Date

Name Position

Tenderer



FORMA NOTIFICATION FORM IN TERMS OF THE OCCUPATIONAL HEALTH AND
SAFETY ACT 1993, CONSTRUCTION REGULATIONS 2003

[In terms of Regulation 3 of the Construction Regulations 2003, the successful Tenderer must complete and forward this form prior to commencement of work to the office of the Department of Labour.]

1. (a) Name and postal address of Contractor:
- (b) Name of Contractor's contact person:
Telephone number:
2. Contractor's compensation registration number:
3. (a) Name and postal address of client:
- (b) Name of client's contact person or agent:
Telephone number:
4. (a) Name and postal address of designer(s) for the project:
- (b) Name of designer's contact person:
Telephone number:
5. Name of Contractor's construction supervisor on site appointed in terms of
Regulation 6(1): Telephone number:
6. Name/s of Contractor's sub-ordinate supervisors on site appointed in terms of regulation 6(2).
.....
7. Exact physical address of the construction site or site office:.....
.....
8. Nature of the construction work:
.....
9. Expected commencement date:
10. Expected completion date:
11. Estimated maximum number of persons on the construction site:
12. Planned number of subcontractors on the construction site accountable to Contractor:
13. Name(s) of subcontractors already chosen:
.....

SIGNED BY:

CONTRACTOR:.....

DATE:.....

IDENTITY NUMBER:.....

CLIENT:.....

DATE:.....

DECLARATION

I, THE UNDERSIGNED (NAME).....

CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2 and 3 ABOVE IS CORRECT.



I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 23 OF THE
GENERAL CONDITIONS OF CONTRACT SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder



CHIEF ALBERT LUTHULI LOCAL MUNICIPALITY



THE CONTRACT:

PART C1: AGREEMENTS AND CONTRACT DATA



PART C1: AGREEMENTS AND CONTRACT DATA

C1.1 Form of Offer and Acceptance

C1.1.1 Form of Offer

(Note: The Appendix, Annexures & Reports Form Part of the Tender)

THIS FORM MUST BE FILLED IN BY THE TENDERER AND MUST BE SIGNED AT TIME OF SUBMISSION OF THE TENDER

The Employer identified in the Acceptance signature block has solicited offers to enter into a contract for:

Tender No :ALMT25/2023

Description of Works : **CONSTRUCTION OF BADPLAAS LANDFILL SITE**

The Tenderer, identified in the Offer signature block, has examined the General and the Special Conditions of Contract, Specifications, Drawings, and Schedule of Quantities for the works: **CONSTRUCTION OF BADPLAAS LANDFILL SITE**. I/We offer to construct, complete and remedy any defects in the said Works in conformity with the General and the Special Conditions of Contract, Specifications, Drawings and Schedule of Quantities, save as amended by Alterations by Tenderer (if any) attached hereto, for the sum of:

Description	Tendered Amount	VAT @ 15%	Amount (Incl. VAT)
CONSTRUCTION OF BADPLAAS LANDFILL SITE			

In words R.....

.....

or such other sum as may be ascertained in accordance with the terms of the contract.

Our proposed construction period as from site handover is:

Description	Construction Period
CONSTRUCTION OF BADPLAAS LANDFILL SITE	

My/Our offer/s remains binding upon me and open for acceptance by the purchaser/client during the validity period (90 days) indicated and calculated from the closing time of tender.

1. I/We confirm that we have satisfied ourselves as to the correctness and validity of my tender; that the price(s) and rate(s) quoted cover all the goods and/or works specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I/We accept that any mistakes regarding price(s) and rate(s) and calculations will be at my/our own risk.

In the event of there being any errors of extension or addition in the priced Schedule of Quantities, I/We/we agree to their being corrected by you or by the Employer's Agent acting on your behalf, the rates being taken as correct and the tender amount be adjusted accordingly.

2. I/We confirm that Escalation will be applicable on Special Materials on this contract and will be calculated as per Contract Data & The Conditions of Contract are the JBCC Principal Building Agreement (May 2018, Edition 6.2)
3. I/We accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfilment of this contract. I/We undertake to complete and



deliver the whole of the Works comprised in the Contract within the time stated in the Appendix adjusted in terms of the Contract.

4. The Tenderer shall within two weeks after receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), contact the Employer's Agent (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

The Construction /Performance Guarantee that I/We propose is:

From (Insurer Name)*¹

*1 – Letter of Intent to be provided

5. Unless and until a formal agreement is prepared and executed, this Tender, together with the written acceptance thereof by yourselves or the Employer's Agent acting on your behalf, shall constitute a binding Contract between us.
6. I/We* understand that you are not bound to accept the lowest or any tender you may receive.
7. I/We* confirms that he/she is aware of the suspense condition that the tender amount as mentioned in the tender document is subject to availability of funds to cover the total envisaged expenditure for the tender in question and
8. I/We* further confirms that Chief albert luthuli local Municipality has the right to cancel the tender prior to award if the funds necessary to cover the total envisaged expenditure of the tender are not available for the current financial year; Chief albert luthuli local Municipality has the right to reduce the Scope of Work after award and prior to commencement to comply with the available budget
9. I/We declare that I/We have no participation in any collusive practices with any tenderer or any other person regarding this or any other tender.
10. I/We, declare that we fully and unconditionally accept the full authority of the Employer's Agent as the representative of the client on site and understand that any communications to the Institution can only be done through the Employer's Agent, unless, otherwise instructed / authorized by the Employer's Agent. Any disputes between myself, the contractor, and the Employer's Agent will be dealt with by the project manager of the institution working on the particular project.
11. I/We confirm that I/We am duly authorized to sign this contract.

Name (Print)

Capacity

Signature

Name of Company

Date

WITNESSES

1.

2.

Date:

C1.1.2 Form of Acceptance

(To be completed by the Client – Chief albert Luthuli Local Municipality on Tender Award)

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the Tenderer's Offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the Conditions of Contract identified in the Contract Data. Acceptance of the Tenderer's Offer shall form an agreement between the Employer and the Tenderer upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

1. We in our capacities as:

Department

Name

Signature

.....

.....

.....

accept your tender under reference number: **CONSTRUCTION OF BADPLAAS LANDFILL SITE** indicated hereunder and/or further specified in the SCHEDULE(s).

2. An official order/ Letter of Appointment indicating delivery instructions are forthcoming.



3. I undertake to make payment for the goods/works delivered/constructed in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice accompanied by the Payment Certificate.

Description	Contract Value (Incl. VAT) (Arithmetically Correct Tender Amount)	Construction Period
CONSTRUCTION OF BADPLAAS LANDFILL SITE		

4. I confirm that I am duly authorized to sign this contract.

SIGNED ATON.....

NAME (PRINT)

SIGNATURE

OFFICIAL STAMP

WITNESSES

1.

2.

DATE

The terms of the contract are contained in:

- Part C1: Agreements and Contract Data (which includes this Agreement)
- Part C2: Pricing Data
- Part C3: Scope of Work
- Part C4: Site Information and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C4 above.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto as listed in the Returnable Documents as well as any changes to the terms of the Offer agreed by the Tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Agreement. No amendments to or deviations from said documents are valid unless contained in this schedule which must be duly signed by the authorised representative(s) of both parties.

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed copy of this document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five working days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

Signature(s)		Date	
Name(s)		Identity Number	
Capacity			



For the Employer			
Name and signature of witness		Date	

1 As an alternative the following wording may be used:

Notwithstanding anything contained herein, this agreement comes into effect two working days after the submission by the employer of one fully completed original copy of this document including the schedule of deviations (if any), to a courier-to-courier delivery / counter-to-counter delivery / door-to-counter delivery / door-to-door delivery / courier service (delete that which is not applicable), provided that the employer notifies the tenderer of the tracking number within 24 hours of such submission. Unless the tenderer (now contractor) within seven working days of the date of such submission notifies the employer in writing of any reason why he/she cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.



C1.1.3 Schedule of Deviations

Notes:

1. The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender,
2. A Tenderer's covering letter shall not be included in the final contract document. Should any matter in such, letter, which constitutes a deviation as aforesaid become the subjects of agreements reached during the process of, offer and acceptance, the outcome of such agreement shall be recorded here,
3. Any other matter arising from the process from offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here,
4. Any change of addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the contract.

1 Subject	
Details	
2 Subject	
Details	
3 Subject	
Details	
4 Subject	
Details	
5 Subject	
Details	

By the duly authorised representatives signing this agreement, the Employer and the Tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the returnable schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

For the Tenderer:



Signature(s)

Name(s)

Capacity

Name and
Signature of
Witness

(name and address of organisation)

Date:.....

For the Employer:
Signature(s)

Name(s)

Capacity

Name and
Signature of
Witness

(name and address of organisation)

Date:.....



C1.2 Contract Data

C1.2.1 Part 1: Data Provided by the Employer

The Conditions of Contract are the JBCC Principal Building Agreement (May 2018, Edition 6.2), published by the Joint Building Contracts Committee. Copies of these documents may be obtained from the Association of South African Quantity Surveyors (011-3154140), the Master Builders Association (011-205-9000) the South African Association of Consulting Engineers (011-4632022) or the South African Institute of Architects (011-4860684).

Each item of data given below is cross-referenced to the clause in the Conditions of Contract to which it mainly applies.

Clause	Data
1.1	The Employer is : CHIEF ALBERT LUTHULI LOCAL MUNICIPALITY Address (physical) : 28 Kerk Street, Carolina, 1185 Address (postal) : PO BOX 24, Carolina, 1185 Telephone : (017) 843 4000 Facsimile: : VAT registration number :
1.2 [6.1]	The Principal Agent is : RSK3 CONSULTING ENGINEERS PROJECT MANAGERS (PTY) LTD Address (physical) : 51 Nelson Mandela Drive, Standerton, 2430 Address (postal) : Telephone : 013 750 0204/ 067 709 8786 Facsimile : e-mail : szakadhari@rsk3engineers.co.za
1.10	The Principal Agent named in 1.2 above is responsible for the preparation of the contract data schedule and must be contacted should the tenderer be uncertain of the information provided or to be provided. Failure to complete the contract data schedule in full may result in the tender being disqualified
2.1 [1.7]	The law applicable to this agreement: South Africa
2.1 [1.1]	The works comprise: CONSTRUCTION OF BADPLAAS LANDFILL SITE
2.3 [1.1]	The site is situated in: The proposed transfer station site under review herein, is located in Badplaas town in Chief Albert Luthuli Local Municipality, which falls under Gert Sibande District Municipality of Mpumalanga Province. Latitude Longitude 25°57'38.29"S 30°35'22.70"E



Clause	Data
2.4 [12.1.5]	Possession of the site : Approximately 14 days post appointment
2.5 [12.2.7]	The period for the commencement of the works after the contractor takes possession of the site is 5 working days, provided that all guarantees, insurances, construction permits, etc. are in place as no extension of time will be granted to the Contractor in failing to provide these documents timeously.
2.6 [20.1]	Completion of the works in sections is required: No
2.7 [25.14.2]	Waiver of the contractor's lien or right on continuing possession is required: Yes
2.8 [B 7.0]	Defined restrictions to the site area: The contractor is to adhere to strict working times of 7am – 5pm daily.
2.9 [B 16.0]	Geotechnical investigation of the site has been undertaken: Igneous Soil Laboratory
2.10 [B 7.0]	Existing premises will be occupied: Yes
Clause	Data
2.11 [B 16.0]	Provision of temporary services is required: YES (As described below)
	Service
	Water A
	Electricity A
	Telecom A
	Ablutions A
	Note: Option A = Contractor at his cost; Option B = Employer free of charge; Option C = Employer metered (contractor cost)
2.12 [B 16.0]	Protection of existing trees and shrubs is required: Yes - to be identified on site
3.1 [10.1.1]	Contract works insurance is to be effected by the: • Contractor • For an amount of Contract Sum + 20%
3.2 [10.1.2]	Supplementary insurance: is to be effected by the • Contractor • For an amount of Contract Sum + 20%



3.3 [10.1.3]	Public liability insurance is to be effected by the • Contractor • For the sum of R5 million
4.0 [19.1.2 24.1-3]	For the works as a whole: The date for practical completion is 3 months after possession of the site The penalty per calendar day is R4000
5.1 [5.6]	Construction documents copies to be supplied to the contractor free of charge: Three copies of the drawings
5.2 [5.4]	The priced document may be used as a specification of materials and goods and work methods: No



Clause	Data
5.3	The contractor shall provide a schedule of rates: No (The completed Bills of Quantities must be supplied)
5.4 [3.11]	Changes made to JBCC standard document: Yes - refer to the additions, deletions and alterations to the JBCC Principal Building Agreement as listed under Clause 6.0 below.
5.5	On acceptance of the tender the priced document is to be submitted within: Not Applicable - Fully priced BOQ to be submitted with tender
5.6 [B 10.0]	Work to be undertaken by direct contractors : None anticipated at present, but the Employer has the right to employ direct contractors at a later date.
5.7 [19.3.3]	On achievement of practical completion, the contractor is to hand over: All required manuals etc. related to the works which must include but not limited to: Electrical, Electronic, HVAC, Plumbing & Drainage, Waterproofing, Groundwater Laboratory Test Certificate, Borehole Water Pumps Manual, Geological/Lithological and Hydraulic Information Records for Borehole Drilling process, etc.
5.8 [25.1]	The interim payment certificate: 20th of every month
[25.3.4]	The contract value shall not be adjusted according to CPAP and shall be a fixed priced contract
6.0	CHANGES MADE TO THE STANDARD JBCC DOCUMENT ARE:
	The JBCC Principal Building Agreement makes several references to the Contract Data for specific data, which together with these conditions collectively describe the risks, liabilities and obligations of the contracting parties and the procedures for the administration of the Contract. The Contract Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the JBCC Principal Building Agreement. Each item of data given below is cross-referenced to the clause in the JBCC Principal Building Agreement to which it mainly applies. The additions, deletions and alterations to the JBCC Principal Agreement are:



Clause	Data
1.0	DEFINITIONS AND INTERPRETATION Clause 1.1 is deemed to be amended by the addition and amendments of the following: Change the Definition of "AGREEMENT" to read as follows: AGREEMENT means the agreement arising from the signing of the Form of Offer and Acceptance by the parties. Change the Definition of "CONSTRUCTION PERIOD" to read as follows: The period commencing on the date of site hand over and ending on the date of practical completion. Change the Definition of "CONTRACT DOCUMENTS" to read as follows: The agreement and all documents referenced therein. The contract documents shall be taken to be mutually explanatory of one another but in the event of ambiguity, discrepancy, divergence or inconsistency in or between them, the JBCC Principal Building Agreement as amended in the contract data shall prevail over all other contract documents. Change the Definition of "CONTRACT SUM" to read as follows: The total of prices in the Form of Offer and Acceptance.
	EXCEPTIONALLY INCLEMENT WEATHER means weather which is not only extreme or severe but exceeding that which, on the evidence of the past ten years, could reasonably been expected.
5.0	DOCUMENTS Clause 5.2 is amended by deleting the following: "Formal signatures are not required to render this agreement binding"
6.0	EMPLOYER'S AGENTS Clause 6.5 is deleted and replaced with the following: 6.5 "Should the principal agent or any agent be unable to act or cease to be an agent, the employer shall inform the contractor of the new principal agent or agent appointed.
7.0	DESIGN RESPONSIBILITY Clause 7.0 is amended by the addition of the following clauses to the end thereof: 7.4 Notwithstanding the provisions of clause 7.2, the contractor is to ensure that nominated, selected or domestic subcontractors shall simultaneously with the signing of the relevant nominated, selected or domestic sub-contract sign and deliver to the employer a design materials and workmanship warranty and undertaking in favour of the employer. 7.5 Any subcontractor whose subcontract involves design work will be required to provide to the employer evidence of "professional indemnity" insurance for such design work. If the contractor fails to obtain the necessary design warranties and / or indemnities from the subcontractors, the design responsibility shall be deemed to devolve upon the contractor"



Clause	Data
9.0	INDEMNITIES Clause 9.1 is amended by the addition of the following clause to the end thereof: 9.1.4 The contractor indemnifies and holds harmless the employer against all liability, losses, claims, damages, penalties, actions, proceedings or judgments (collectively referred to as "Losses") arising from any infringement of letters, patent design, trademark, name, copyright or other protected rights in respect of any machine, plant, work, materials, thing, system or method of using, fixing, working or arrangement used or fixed or supplied by the contractor, but such indemnity shall not cover any use of the equipment of part thereof otherwise than in accordance with the provisions of the specification. All payments and royalties payable in onesum or by instalments or otherwise shall be included by the contractor in the price and shall be paid by him to those to whom they may be payable. The contractor shall reimburse the employer for all legal and other costs and expenses, including without limitation attorney's fees on attorney-client scale incurred by the employer in connection with investigation, defending or settling any Losses in connection with pending or threatening litigation in which the employer is a party.
11.0	SECURITY Clause 11.1 is deleted and replaced with the following clause: 11.1 The contractor shall provide the security as stated in the contract data. Such security shall be provided to the employer within twenty-one (21) calendar days of acceptance of the contractor's tender. Clause 11.1.2 is deleted and replaced with the following clauses: 11.1.2 The employer has selected the security in terms of clause 11.0, which is a fixed construction guarantee and payment reduction. This guarantee is to be issued by the contractor: 11.1.2.1 The contractor shall furnish the employer with a fixed construction guarantee equal in value to ten per cent (10%) of the contract sum within fourteen (14) calendar days from the offer of appointment date 11.1.2.2 The fixed construction guarantee shall come into force, be administered and expire in terms of the construction guarantee form included under Part C1 Agreement and Contract Data, Clause C1.3 Construction Guarantee. 11.1.2.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of its expiring. 11.1.2.4 The payment reduction to the value certified in a payment certificate shall be made [31.8, 34.8]. 11.1.2.5 Where the employer has a right of recovery against the contractor [33.0], the employer may issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction [33.4] or both.



Clause	Data
11.0	SECURITY Clause 11.1 is deleted and replaced with the following clause: 11.2 The contractor shall provide the security as stated in the contract data. Such security shall be provided to the employer within twenty-one (21) calendar days of acceptance of the contractor's tender. Clause 11.1.2 is deleted and replaced with the following clauses: 11.2.2 The employer has selected the security in terms of clause 11.0, which is a fixed construction guarantee and payment reduction. This guarantee is to be issued by the contractor: 11.2.2.1 The contractor shall furnish the employer with a fixed construction guarantee equal in value to ten per cent (10%) of the contract sum within fourteen (14) calendar days from the offer of appointment date 11.2.2.2 The fixed construction guarantee shall come into force, be administered and expire in terms of the construction guarantee form included under Part C1 Agreement and Contract Data, Clause C1.3 Construction Guarantee. 11.2.2.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of its expiring. 11.2.2.4 The payment reduction to the value certified in a payment certificate shall be made [31.8, 34.8]. 11.2.2.5 Where the employer has a right of recovery against the contractor [33.0], the employer may issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction [33.4] or both.
13.0	SETTING OUT Cause 13.0 is amended by the addition of the following clauses at the end thereof 13.2 The contractor shall continuously perform tolerance control checks throughout the contract period and report on these at regular intervals to the principal agent in a format approved by the principal agent. Should the contractor fail to comply with this requirement to the satisfaction of the principal agent, progressively as the structure is constructed, the employer shall be entitled to commission a registered land surveyor to do so on the contractor's behalf and at the contractor's expense.



Clause	Data
	13.3 The contractor shall provide general attendance and all reasonable assistance to the abovementioned or any other land surveyor who may be appointed by the employer .
19.0	PRACTICAL COMPLETION Clause 19.0 is amended by the addition of the following clauses to the end thereof: 19.8 Without derogating from the generality of the requirements for practical completion the following specific requirements shall apply: 19.8.1 Defects occurring after the issue of the practical completion list requiring remedial work that will in the opinion of the principal agent caused disruption will cause the issue of the certificate of practical completion to be withheld until such defects have been rectified to the satisfaction of the principal agent. 19.8.2 The following certificates of compliance shall be required (excluding others that may be required by the local / national authority) from the contractor to achieve practical completion: a) A certificate from the contractor that all aspects of the construction regulations of 2014 have been complied with. b) A certificate from the contractor that the National Building Regulations have been complied with c) A certificate of compliance with respect to plumbing and drainage d) An electrical certificate of compliance e) A certificate of compliance and fire clearance certificate from the contractor and fire chief respectively. f) A painting guarantee. g) A mechanical certificate of compliance. h) A structural certificate of compliance. i) A waterproofing certificate of compliance. j) Borehole drilling pumping tests certificate to determine the safe and k) sustainable groundwater yields l) Groundwater Test certificate by an accredited laboratory m) for hydro chemical analysis to determine if the water is suitable for human consumption n) Any other applicable guarantees. 19.8.3 A complete set of maintenance and operating manuals together with all workmanship and material warranties and guarantees are to be compiled and issued to the principal agent prior to practical completion being granted. In addition to the abovementioned documentation a formal "on site" handover will be required to be conducted with every discipline in the presence of the contractor as well as the applicable services subcontractor. e) 19.9 After the issue of the certificate of practical completion, entry upon the works to make good defects shall be at such reasonable times as shall be agreed by the principal agent.



Clause	Data
23.0	REVISION OF DATE OF PRACTICAL COMPLETION Clause 23.1.1 shall be deleted and replaced with the following:
	23.1.1 Exceptionally inclement weather "Exceptionally inclement weather" shall be defined as weather conditions in excess of the monthly average recorded for the past 10 (ten) years by the nearest commonly recognised weather bureau in the region of the project. The contractor shall be deemed to have allowed in his programme for the works and opposite this item or in his rates, for the cost of all delays as a result of weather conditions which are average. A delay caused by exceptionally inclement weather conditions will be regarded as a delay only if, in the opinion of the principal agent, all progress on an item or items of work on the critical path of the working programme of the contractor has been brought to a halt. Delays on working days only (based on a five-day working week) will be taken into account for the extension of time, but the contractor shall make provision in his programme of work for an expected delay of "n" working days caused by normal rainy weather, for which he will not receive any extension of time, where "n" equals 30 days. Extension of time during working days will be granted to the degree to which actual delays, as defined above, exceed the number of "n" working days. Clause 23.0 is amended by the addition of the following clauses to the end thereof: 23.9 Revision to the date for practical completion shall only be considered when work on the critical path of the agreed programme for the works is delayed.
25.0	PAYMENT Clause 25.2 is deleted and replaced by the following: 25.2 The principal agent shall issue an interim payment certificate every month until the issue of the final payment certificate. The contractor is to issue his payment requisition to the quantity surveyor by the 15th of each month in preparation for the quantity surveyor to issue a valuation to the principal agent by the 23rd of each month, failure to submit a claim will entitle the quantity surveyor to submit a reasonable value for the works done. The payment certificate shall be issued on the date stated and may be for a nil or negative amount. Clause 25.5 is amended by the deletion of the first sentence and replaced with the following: Materials and goods shall not, as a general rule, be included in the value certified. Should the principal agent agree, such materials and goods shall be included in the value certified only where, to the satisfaction of the principal agent, the contractor has issued a bank guarantee to the employer in a format to be approved by the principal agent. Clause 25.12 is amended as follows: Clause 25.12.1 is deleted and replaced with the following:



Clause	Data
	25.12.1 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion. Clause 25.12.2 is deleted and replaced with the following: 25.12.2 Ninety-five per cent (95%) of such value in interim payment certificates issued on to the date of practical completion and up to but excluding the date of final completion. Clause 25.10 is deleted and replaced with the following: 25.10 The employer shall pay to the contractor the amount certified in an interim payment certificate within thirty (30) calendar days of the date of receipt of the contractor's tax invoice for the amount certified. Clause 25.15 is deleted and replaced with the following clause: 25.15 The employer shall pay the contractor the amount certified in the final payment certificate within thirty (30) calendar days of the date of issue of the final payment certificate subject to the contractor giving the employer a tax invoice for the amount due. Clause 25.16 is deleted and replaced with the following clause: 25.16 The contractor shall accept or object to the final account within forty-five (45) calendar days of receipt thereof. On acceptance or should the contractor not object with reasons to the final account within such period, the principal agent shall issue the final payment certificate.
29.0	TERMINATION BY THE EMPLOYER Clause 29.1 is amended by the addition of the following clauses to the end thereof: 29.1.4 The contractor's refusal or neglect to comply strictly with any of the conditions of contract. 29.1.5 The contractor's estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force with the Republic of South Africa. 29.1.6 The contractor, in the judgment of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract. 25.12.3 The contractor fails to perform in terms of the agreement or the employer on reasonable ground believe that the contractor may not be able to comply with his obligation.
	Refer to the Preliminaries Section in the Bill of Quantities for any additional amendments to the Standard JBCC Document.



C1.2.2 Part 2: Data Provided by the Contractor

The Contractor is advised to read the JBCC Principal Building Agreement (May 2018, Edition 6.2) and section 3.0 Payment and adjustment of preliminaries contained in the associated Contract Data CE, published by the Joint Building Contracts Committee, in order to understand the implications of this Data which is required to be completed. Copies of these documents may be obtained from the Association of South African Quantity Surveyors (011-3154140), the Master Builders Association (011-205-9000) the South African Association of Consulting Engineers (011-4632022) or the South African Institute of Architects (011-4860684)

Each item of data given below is cross-referenced to the clause in the Conditions of Contract to which it mainly applies.

Clause	Data with reference to the JBCC Principal Building Agreement (Edition 6.2, May2018)	
1.0	The Contractor is. Name : The address of the Contractor is: Address (physical) : Address (postal) : Telephone : Facsimile: E-mail : TAX / VAT Registration No :	
2.1	The security provisions selected are:	
[11.1.1]	Variable construction guarantee	NO
[11.1.2]	Fixed Construction Guarantee and Payment Reduction	YES
3.2.4	Contract Value shall be adjusted according to the CPAP: Not applicable. This tender is for a fixed rate contract.	
3.2.5 [C 3.0]	Payment of preliminaries: Option A	
3.2.6 [C 4.0]	Adjustment of preliminaries: Option A	

I/we declare that I/we completely waive our right of Lien and that no property whatsoever will be taken ownership off. The site and all applicable materials paid for in full, remain unconditionally the property of the institution and I/we have at no Phase took ownership of such site and materials.

**If the time of completion is not stated the Contractor should fill in.*



Signed _____ Date _____

Name _____ Position _____

Tenderer _____



C1.3 Forms of Securities

Forms for completion by the contractor

The following forms are to be completed by the Contractor after the tender has been awarded to the successful tenderer.

- C1.3.1 Form of Guarantee
- C1.3.2 Written Agreement on Occupational Health and Safety
- C1.3.3 Written Agreement on Environmental Management
- C1.3.4 Bond for Material on Site
- C1.3.5 Ownership of Materials

The forms will be completed by the Contractor who will be instructed to do so in the Form of Acceptance. The completed forms will become part of the Contract.

The Form of Guarantee is a pro forma document. The Contractor will provide an original document, from a financial institution, with the same text within the same time stated in the Contract Data. Only a bank or approved insurance company or guarantee corporation is acceptable as guarantor.



C1.3.1 Form of Guarantee

Pro-Forma Performance Guarantee

For use with the General Condition of Contract for Construction Works, Second Edition, 2015.

Guarantee Details and Definitions

"Guarantor" means:

Physical address:

"Employer" means: **Chief albert Luthuli local Municipality**

"Contractor" means:

"Employer's Agent means. **RSK3 Consulting Engineers and Project Managers (Pty) Ltd.**

"Works" means:

"Site" means:

"Contract means: The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties.

"Contract Sum" means: The accepted amount inclusive of tax of R.....

Amount in words:

"Guaranteed Sum" means: The maximum aggregate amount of R.....

Amount in words:

"Expiry Date" means:

Contract Details

Employer's Agent issues: Interim Payment Certificates, Final Payment Certificate and the Certificate Completion of the Works as defined in the Contract.

Performance Guarantee

1. The Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
2. The Guarantor's period of liability shall be from and including the date of issue of this Performance Guarantee and up to and including the Expiry Date or the Date of issue by the Employer's Agent of the Certificate of Completion of the Works or the date of payment in full of the Guaranteed Sum, whichever occurs first. The Employer's Agent and/or the Employer shall advise the Guarantor in writing of the date on which the Certificate of Completion of the Works has been issued.
3. The Guarantor hereby acknowledges that:
 - 3.1. any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a Surety ship;
 - 3.2. its obligation under this Performance Guarantee is restricted to the payment of money.
4. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3:
 - 4.1. A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Employer's Agent in an Interim or Final Payment Certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2;
 - 4.2. A first written demand issued by the Employer to the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) days has elapsed since the first written demand in terms of 4.1 and the sum certified has still not been paid;
 - 4.3. A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 4.



5. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee, such demand stating that:
 - 5.1. the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 5; or
 - 5.2. a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Performance Guarantee is called up in terms of 5; and
 - 5.3. the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.
6. It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4 and 5 shall not exceed the Guarantor's maximum liability in terms of 1.
7. Where the Guarantor has made payment in terms of 5, the Employer shall upon the date of issue of the Final Payment Certificate submit an expense account to the Guarantor showing how all monies received in terms of this Performance Guarantee have been expended and shall refund this Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Performance Guarantee shall interest at the prime overdraft of the Employer's bank compounded monthly calculated from the date payment was made by the Guarantor to the Employer until the date of refund.
8. Payment by the Guarantor in terms of 4 or 5 shall be made within seven (7) calendar days upon receipt of the first demand to the Guarantor.
9. Payment by the Guarantor in terms of 5 will only be made against the return of the original Performance Guarantee by the Employer.
10. The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may deem fit and the Guarantee shall not have the right to claim his release from the Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.
11. The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in the connection herewith.
12. This performance Guarantee is neither negotiable nor transferable and shall expire in terms of 2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.
13. This Performance Guarantee, with the required demand notices in terms of 4 or 5, shall be regarded as a liquid document for the purposes of obtaining a court order.
14. Where this Performance Guarantee is issued in the republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act no 32 of 1944, as amended, to the jurisdiction of the Magistrate's court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.
15. Our total liability hereunder shall not exceed the sum of
.....(R.....).
16. We hereby choose domicilium citandi et executandi for all purposes arising hereof at
.....
IN WITNESS WHEREOF this guarantee has been executed by us at on this
..... day of 20.....
Signed at: Date:
Guarantor's Signatory (1):
Capacity:
Guarantor's Signatory (2):
Capacity:



C1.3.2 Occupational Health and Safety Agreement

AGREEMENT MADE AND ENTERED INTO BETWEEN Error! Reference source not found. (HEREINAFTER CALLED THE "EMPLOYER") AND

.....
(Contractor/Mandatory/Company/CC Name)

IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, ACT No. 85 OF 1993 AS AMENDED.

I,
representing

....., as an Employer in its own right, do hereby undertake to ensure, as far as is reasonably practicable, that all work will be performed, and all equipment, machinery or plant used in such a manner as to comply with the provisions of the Occupational Health and Safety Act (OHSA) and the Regulations promulgated thereunder.

I furthermore confirm that I am/we are registered with the Compensation Commissioner and that all registration and assessment monies due to the Compensation Commissioner have been fully paid or that I/We are insured with an approved licensed compensation insurer.

COID ACT Registration Number:

OR Compensation Insurer: Policy No.:

I undertake to appoint, where required, suitable competent persons, in writing, in terms of the requirements of OHSA and the Regulations and to charge him/them with the duty of ensuring that the provisions of OHSA and Regulations as well as the Council's Special Conditions of Contract, Way Leave, Lock-Out and Work Permit Procedures are adhered to as far as reasonably practicable.

I further undertake to ensure that any subcontractors employed by me will enter into an Occupational Health and Safety Agreement separately, and that such subcontractors comply with the conditions set.

I hereby declare that I have read and understand the appended Occupational Health and Safety Conditions and undertake to comply therewith at all times.

I hereby also undertake to comply with the Occupational Health and Safety Specification and Plan.



Occupational Health and Safety Conditions

1. The Chief Executive Officer of the Contractor shall assume the responsibility in terms of Section 16(1) of the Occupational Health and Safety Act (as amended). Should the Contractor assign any duty in terms of Section 16(2), a copy of such assignment shall immediately be provided to the representative of the Employer as defined in the Contract.
2. All work performed on the Employer's premises shall be performed under the supervision of the construction supervisor who understand the hazards associated with any work that the Contractor performs on the site in terms of Construction Regulations 2003.
3. The Contractor shall appoint a Competent Person who shall be trained on any occupational health and safety aspect pertaining to them or to the work that is to be performed.
4. The Contractor shall ensure that he familiarises himself with the requirements of the Occupational Health and Safety Act and that he/she, his/her employees, and any sub-contractors, comply with them.
5. Discipline in the interests of occupational health and safety shall be strictly enforced.
6. Personal protective equipment shall be issued by the Contractor as required and shall be worn at all times where necessary.
7. Written safe work procedures and appropriate precautionary measures shall be available and enforced, and all employees shall be made conversant with the contents of these practices.
8. No substandard equipment/machinery/articles or substances shall be used on the site.
9. All incidents referred to in terms of Section 24 of the Occupational Health and Safety Act shall be reported by the Contractor to the Department of Labour and the Employer.
10. The Employer hereby obtains an interest in the issue of any formal inquiry conducted in terms of Section 32 of the Occupational Health and Safety Act and into any incident involving a Contractor and/or his/her employees and/or his/her sub-contractor/s.
11. No use shall be made of any of the Employer's machinery/plant/equipment/substance/personal protective equipment or any other article without prior arrangement and written approval.
12. No alcohol or any other intoxicating substance shall be allowed on the site. Any person suspected of being under the influence of alcohol or any other intoxicating substance shall not be permitted access to, or allowed to remain on the site.
13. Prior to commencement of any work, verified copies of all documents mentioned in the agreement, must be presented to the Employer.

.....
On Behalf of Chief albert Luthuli local Municipality

.....
Date

Witnesses 1.

2.

.....
For The Contractor

.....
Date

Witnesses 1.

2.



OCCUPATIONAL HEALTH AND SAFETY ACT, 1993
Regulation 3 of the Construction Regulations, 2003

NOTIFICATION OF CONSTRUCTION WORK

- 1.(a) Name and postal address of principal contractor:
.....
- (b) Name and tel. no of principal contractor's contact person:
.....
- (c) Principal contractor's compensation registration number:
- 2.(a) Name and postal address of client:
.....
- (b) Name and tel no of client's contact person or agent:
.....
- 3.(a) Name and postal address of designer(s) for the project:
.....
- (b) Name and tel. no of designer(s) contact person:
.....
- 4.(a) Name and telephone number of principal contractor's construction supervisor on site appointed in terms of regulation 6.(1).
.....
- (b) Name/s of principal contractor's sub-ordinate supervisors on site appointed in terms of regulation 6.(2).
.....
5. Exact physical address of the construction site or site office:
.....
6. Nature of the construction work:
.....
7. Expected commencement date:
8. Expected completion date:
9. Estimated maximum number of persons on the construction site.
10. Planned number of contractors on the construction site accountable to principal contractor:
.....
11. Name(s) of contractors already chosen.
.....
.....
.....



.....

.....

Principal Contractor

.....

Date

.....

Client

.....

Date

THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR **PRIOR TO COMMENCEMENT** OF WORK ON SITE.

ALL PRINCIPAL CONTRACTORS THAT QUALIFY TO NOTIFY MUST DO SO EVEN IF ANOTHER PRINCIPAL CONTRACTOR ON THE SAME SITE HAD DONE SO PRIOR TO THE COMMENCEMENT OF WORK



C1.3.3 Agreement to Accept the Conditions of the Environmental Management Plan

Whereas (The Contractor)

*Company Registration No:

Address:

a * Company incorporated with limited liability according to the company laws of the Republic of South Africa, *Partnership, *Close Corporation, * Public Company (hereinafter called the contractor), represented herein by in his capacity as duly authorized hereto by a articles of association, resolution, power of attorney, or otherwise as duly signed and declared in Form F.2 of this document.

Do hereby agree that the following arrangements and procedures shall apply to the abovementioned Contractor to ensure compliance with the provisions of the Environmental Management Plan (EMP), namely:

- a) The Contractor undertakes to acquaint the appropriate officials and employees of the Contractor with all the relevant provisions of the EMP, the regulations and conditions in terms of the EMP.
- b) The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the EMP and the instructions of the duly authorized Environmental Officer, enforcing the conditions of the EMP, will be fully complied with.
- c) In relation to any work or activity performed by the Contractor, his workmen or any other person for whose acts or omissions the Contractor is responsible in terms of the Contract, the Contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the EMP and expressly absolves the Dept. of Housing from itself being obliged to comply with any of the foresaid duties, obligations and prohibitions.
- d) The Contractor shall be obliged to report forthwith in writing to the Employer's Agent full Details of any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the EMP, pursuant to work performed in terms of this Contract.

.....
For The Contractor

.....
Date

Witnesses

1.

2.



C1.3.4 Bond for Material on Site

Contract No:

Employer:

Contractor:

Description of Contract:

I/We, the undersigned, **(Bank or Insurance Company)** do hereby bind ourselves as surety and co-principal debtors in solidum for compensating the Employer where the ownership of material for some reason or other cannot pass to the Employer, or the Employer by law is expected to pay a third party to obtain ownership of material in spite of the fact that the Employer paid the Contractor as per clause 62(1)(b) of the general conditions of contract, and for all losses, damages, and expenses that may be suffered or incurred by the Employer as a result of payment for material on site, renouncing all benefits from the legal exceptions ordinis seu excussionis et divisionis "no value received" and all other exceptions which might or could be pleaded against the validity of this guarantee, with the meaning and effect of which exceptions we declare ourselves to be fully acquainted; provided that the liability of the undersigned under this guarantee is limited to (specify amount of bond)

.....

..... (R.....) and will lapse on the issue of the completion certificate in terms of the Contract, unless the surety is advised in writing by the Employer before issue of the said certificate of his intention to institute claims and the particulars thereof, in which event this guarantee shall remain in force until all such claims are paid or settled.

For and on Behalf of **(Surety)**

AT on this day of 20.....

.....
Capacity

Full Address:

.....
.....

As Witnesses:

1.

2.

*Delete whichever is inapplicable



C1.3.5 Transfer of Ownership of Materials on Site

Claim for materials on site, Payment Certificate No: Date:.....

Tender No: for (contract title)

I, the undersigned (name of signatory) in my capacity as

..... of (name of Contractor)

duly authorised hereto on behalf of the Contractor hereby transfer, cede and assign all the Contractor's rights, title and interest in and to the materials and goods, for which evidence of bona fide ownership is attached hereto,

unto and in favour of (name of Employer)

Insofar as the Contractor retains actual control of the materials and goods, the right of ownership thereof passes to the Employer by *constitutum possessorium*.

I herewith indemnify the Employer against any claim to and in respect of said materials by reason of the Contractor's sequestration or liquidation or of any effect in the Contractor's title to the materials and agree that no payment for materials on site will be made by the Employer until such time as I have submitted documentary proof of bona fide ownership of the said materials and goods.

The transfer shall become effective upon conclusion of the Contractor receiving payment from the Employer or from any other person on behalf of the Employer for the materials and goods as Materials on Site, payment of retention money thereon excluded.

I further confirm that I am fully responsible for all materials and goods listed under this Transfer of Rights and that they have been insured adequately against all risks and will remain insured until they are built into or used in the permanent works and taken over by the Employer.

This certificate of Transfer of Rights applies only to the materials and goods as listed in the following table:

DESCRIPTION OF ITEM	UNIT	QTY	RATE	AMOUNT	SUPPLIER
TOTAL VALUE OF MATERIALS AND GOODS					

Signed by Date
for and on behalf of the Contractor,

Witnesses by Date

[Note: This form, together with the documentary proof of ownership or proof of payment by the Contractor to the supplier, shall accompany the Contractor's claim for payment for materials on site in terms of Clause 52(1)(e) of the General Conditions of Contract 2015.]



C1.3.6 Contract of Temporary Employment as Community Liaison Officer (CLO)

CONTRACT:

PROJECT in.....

AGREEMENT made between the CONTRACTOR
and the hereafter referred
to as the Project Steering Committee (PSC), and the Community Liaison Officer, hereafter referred to as the CLO, for the
appointment and employment of a Community Liaison Officer for the duration of the work in their designated area.

1. THE PARTIES HAVE AGREED THAT

The Community Liaison Officer

of.....

has been nominated by the PSC. The CLO will be employed by the CONTRACTOR

..... on a temporary basis for the duration
of the work from the date of signing this agreement to the date of practical completion as defined in the Contract,
subject to all the conditions set out below.

2. THE DUTIES OF THE COMMUNITY LIAISON OFFICER SHALL BE:

1. to keep the Forum and the community informed on the progress of the project;
2. to keep the Contractor informed on relevant Community affairs and possible grievances;
3. to manage the recruitment of workers;
4. to assist the Contractor's supervisory staff in the management of the workers.

3. THE FOLLOWING CONDITIONS OF EMPLOYMENT SHALL APPLY:

The Conditions of Temporary Employment as applicable on this Contract for the workers recruited from the
Community shall apply equally to the CLO, except that the rate of remuneration shall be R..... per working
day. These conditions that apply are listed below as they appear in the Contract of Temporary Employment:

3.1 If required to work on a statutory public holiday or Sunday the payment will be double the amount
stated in the previous paragraph.

3.2 Maximum hours of work:

- (i) 9¼ hours per day
- (ii) 45 hours per week;
- (iii) 5 days per week;
- (iv) 5 hours without an interval, whereupon there shall be an interval of at least 30 minutes;
- (v) A spread-over period of 12 hours.

3.3 The CLO shall be entitled to payment where he is prevented from working by reasons which are within
the control of the Contractor.

3.4 On days when it is raining the Contractor may, before 9 a.m., decide not to open the site and there will
be no pay.

If the Contractor closes the site between 9 a.m. and 1 p.m., the CLO will be paid half the daily wage.

If the site works later than 1 p.m., the CLO will be paid the full daily wage.

3.5 Workers and the CLO will not be permitted to work under conditions of:

- (i) undisciplined or unruly behavior;
- (ii) insubordination to Team Leader, Supervisors or Management;
- (iii) abuse of intoxicating substances;
- (iv) criminal actions by the employee;
- (v) strike action or political stayaways.



3.6 Discipline. Workers may be dismissed after two official written warnings for the following behaviour:

- (i) undisciplined or unruly behaviour;
- (ii) insubordination to Team Leader, Supervisors or Management;
- (iii) abuse of intoxicating substances;
- (iv) wilful or negligent damage to or loss of machines or equipment.

The Contractor shall ensure that he has statements from at least two witnesses concerning any of the above situations.

The Contractor shall inform the PSC within 24 hours of any warning issued. The PSC has undertaken to review such issues within 5 days.

3.7 The CLO will be paid on a Friday afternoon every two weeks, one week in arrears.

3.8 The CLO shall be given a statement with each payment on which is recorded:

- (i) the name of the Contractor;
- (ii) the CLO's name;
- (iii) the number of days worked by the CLO;
- (iv) the rate per day;
- (v) the details of any deductions made;
- (vi) the actual amount paid to the CLO.

3.9 No deduction shall be made from the remuneration except where the CLO consents in writing or unless the Contractor is permitted or required to do so by law or the order of any competent court.

3.10 The CLO shall be supplied free of charge with all health and safety equipment required by the Occupation Health and Safety Act. The equipment shall remain the property of the Contractor.

3.11 The Contractor must give the CLO at least one week's notice of the termination of the Contract of Temporary Employment. If this is not done, the CLO must be paid earnings for five days. This condition does not apply if the CLO is dismissed.

3.12 At the end of the period of temporary employment, the Contractor shall provide a Certificate of Service recording the Contractor's name, the CLO's name and address, the period of service, the type of work on which the CLO was engaged and the rate of remuneration on termination.

4. TERMINATION OF AGREEMENT

4.1 If the CLO can no longer perform and execute his/her duties as detailed in this agreement, this agreement will be terminated without prejudice to any rights under this agreement.

4.2 If the appointed CLO is, for any reason, no longer recognised by the PSC. This agreement will be terminated without prejudice to any further rights under this agreement.

5. THE CONDITIONS OF THIS AGREEMENT

5.1 The parties expressly declare that this agreement contains all the conditions negotiated between them, and no condition or stipulation not contained herein shall be binding upon the parties.

6. THUS AGREED AND SIGNED BY THE PARTIES:

PSC Chairperson:

Contractor

Community Liaison officer:

Date:



CHIEF ALBERT LUTHULI LOCAL MUNICIPALITY



THE CONTRACT:

PART C2: PRICING DATA



PART C2: PRICING DATA

C2.1 Pricing Instructions

1. The general conditions of contract, the special conditions of contract (if any), the specifications (including the project specification) and the drawings (if any) are to be read in conjunction with the schedule of quantities.
- 1.1. Those parts of the contract to be constructed using labour-intensive methods have been marked in the Schedule of Quantities (SQ) with the letters LI in a separate column filled in against every item so designated. The works, or part of works so designated are to be constructed using labour-intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the Scope of Works, is a variation to the contract. The items marked with the letters LI are not an exhaustive list of all the activities which must be done by hand and those clauses do not over-ride any of the requirements in the SANS 1921: 2005.
- 1.2. Payment for items which are designated to be constructed labour-intensively (either in the SQ or in the Scope of Works or Project Specifications) will not be made unless they are constructed using labour-intensive methods. Any unauthorized use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.

2. For the purposes of this schedule of quantities, the following words shall have the meaning hereby assigned to them:

Unit: The unit of measurement for each item of work as defined in the specifications.

Quantity: The number of units of work for each item.

Rate: The payment per unit of work for which the tenderer tenders to do the work.

Amount: An amount tendered for an item, the extent of which is described in the schedule of quantities, the specification or elsewhere, but of which the quantity of work is not measured in units.

“LI” Labour Intensive methods to be used in accordance with Project Specifications

3. The quantities set out in the schedule of quantities are only approximate quantities. The quantities of work finally accepted and certified for payment, and not the quantities given in the schedule of quantities, will be used to determine payments to the contractor.

The validity of the contract shall in no way be affected by differences between the quantities in the schedule of quantities and the quantities finally certified for payment. Work shall be valued at the rates or lump sums tendered, subject only to the provisions of the general conditions of contract.

4. Rates and lump sums shall include full compensation for overheads, profits, incidentals, tax (**except for Value Added Tax**), etc. and for the completed items of work as specified. Full compensation for completing and maintaining, during the maintenance period, all work shown on the drawings and specified in the specifications, and for all the risk, obligations and responsibilities specified in the general conditions of contract, special conditions of contract and the project specifications shall be considered as provided for collectively in the items of payment given in the schedule of quantities, except in so far as the quantities given in the schedule of quantities are only approximate.
5. The tenderer shall fill in a rate or a lump sum for each item where provision is made for it, - this includes rate only items. Items against which no rate or lump sum has been entered in the tender will not be paid for when the work is executed, as payment for such work will be regarded as being covered by other rates or lump sums in the schedule of quantities.

Please only complete rates and totals for those items that have entries in the quantity column – this include “rate only” items

The tenderer shall fill in a rate against all items where the words "rate only" appears in the amount column. Although no work is foreseen under such item and no quantities are consequently given in the quantity column, the tendered rate shall apply should work under this item actually be required. Tenderers should note the provisions of paragraph 12 of this preamble.

If the tenderer should group a number of items together and tender one lump sum for such group of items and not to each individual item, or should he indicate that full compensation for any item has been included in the rate for another item, the rate for the item included in another item shall be deemed to be nil.



The tendered lump sum and rates shall be valid irrespective of any change in the quantities during the execution of the contract.

Preliminary & General Section may not be tendered as a lump sum. A tender may be disqualified if the P&G Section is tendered as a lump sum.

6. The works executed are measured for payment in accordance with the methods described in the contract documents under the various payment items.
7. The prices and rates to be inserted in the Bill of Quantities are fully inclusive prices for the work described under the items. Such prices and rates shall cover all costs and expenses that may be required in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices shall be used as a basis for assessment of payment for additional work that may have to be carried out.
8. It will be assumed that prices included in the Bill of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.SANS.co.za or www.iso.org for information on standards).
9. Where the Scope of Work requires detailed drawings and designs or other information to be provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount tendered for such items.
10. The amount of work or the quantities of material stated in the schedule of quantities shall not be considered as restricting or extending the amount of work to be done or the quantity of material to be supplied by the contractor.
11. The statement of quantities of material or amount of work in the schedule of quantities shall not be regarded as authorization for the contractor to order material or to execute the work. The contractor shall obtain the Employer's Agent's detailed instructions for all work before ordering any materials or executing work or making arrangements in this regard.
12. The short description of the payment items in the schedule of quantities is only given to identify the items and to provide specific details. Reference shall inter alia be made to the drawings, project specifications, general conditions of contract and special conditions of contract for more detailed information regarding the extent of work entitled under each item.
13. The provisions of Clause 48 of the general conditions of contract shall apply to provisional sums and prime cost sums.
14. Subject to the conditions stated in paragraph 12 below, the rates and lump sums filled in by the tenderer in the schedule of quantities shall be final and binding, and may not be adjusted should there be any mistakes in the extensions thereof and in the amounts, appearing in the tender. Should there be any discrepancies between the tender sum and the correctly extended and totalled schedule of quantities, the rates will be regarded as being correct, and the employer shall have the right to make adjustments to the tender sum to reconcile the tender sum with the total of the schedule of quantities. Under no circumstances will tendered rates be adjusted when such errors are corrected. In such an event the contractor will be consulted but, failing agreement between the parties, the decision of the employer shall be final and binding. Adjustment of the tender sum will take place only after acceptance of the tender, but prior to the signing of the contract. In their own interest tenderers must make doubly sure of the correctness of their tendered rates, the extensions and the tender sum.
15. A tender may be rejected if the unit rates or lump sums for some of the items in the schedule of quantities are, in the opinion of the employer, unreasonable or out of proportion, and if the tenderer fails, within a period of seven (7) days of having been notified in writing by the employer to adjust the unit rates or lump sums for such items, to make such adjustments.
16. The units of measurement indicated in the schedule of quantities are metric units. The following abbreviations are used in the schedule of quantities:

%	=	per cent	m ² .pass	=	square metre-pass
h	=	hour	m ³	=	cubic metre
ha	=	hectare	m ³ .km	=	cubic metre-kilometre
kg	=	kilogram	MN	=	meganewton
kℓ	=	kilolitre	MN.m	=	meganewton-metre
km	=	kilometre	MPa	=	megapascal
km-pass	=	kilometre-pass	No.	=	number
kPa	=	kilopascal	Prov sum	=	Provisional sum



kW	=	kilowatt	P C sum	=	Prime Cost sum
ℓ	=	litre	sum	=	lump sum
m	=	metre	t	=	ton (1 000 kg)
mm	=	millimetre	W/day	=	Work day
m ²	=	square metre			

17. All rates and sums of money quoted in the schedule of quantities shall be in Rands and whole cents. Fractions of a cent shall be discarded.
18. The schedule of quantities shall be completed in **BLACK INK. Tenders where the Schedule of Quantities is completed in pencil, WILL be disqualified.**
19. All prices and rates shall exclude value added tax (VAT). The Tenderer shall calculate VAT and enter it as the end of the Summary of the Schedule of Quantities

An electronic copy of the Schedule of Quantities will be made available by contacting Chief albert Luthuli local Municipality Supply Chain Management. It is a requirement that the original yellow pages contained in the tender document must still be completed in black ink. A tender will be disqualified if only a printed copy of the Schedule of Quantities is submitted



C2.2 Bill of Quantities

C2.2.1 Bill of Quantities Contents

SANS 2001:	General
SANS 2001-CM1:	Masonry walling
SANS 2001-CT2:	Structural timberwork – roofing
SANS 2001-EM1:	Cement plaster
SANS 2001 CG1:	Glazing
SANS 1700:	Fasteners
SANS 10305:	Painting of Buildings
SANS 10177/717:	Ceilings
SANS 1449:	Ceramic Tiles
SANS 2001–DP1:	Earthworks for buried pipelines.
SANS 2001–DP2:	Below ground medium pressure pipelines
SANS 2001–DP3/4:	Sewers
SANS 2001–DP5:	Stormwater drainage
SANS 10142:	Low-voltage installations



ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	PART 1	PRELIMINARY & GENERAL				
	SANS 1200 A					
1,1	8,3	Scheduled Fixed Charge and Value Related items				
1.1.1	8.3.1	Contractual Requirements	Sum	1		
	8.3.2	Establishment of facilities on site				
	PSA-8.3.2.1	- Facilities for Engineer				
1.1.2		(a) Furnished offices (1 No)	Sum	1		
1.1.3		(c) Nameboards (1 No)	Sum	1		
1.1.4	(PSA)	(d) Carports (1 No)	Sum	2		
	PSA-8.3.2.2	Facilities for Contractor				
1.1.5		All facilities scheduled in clause 8.3.2.2 of SANS 1200 A	Sum	1		
1.1.6	8.3.3	Other fixed-charge obligations	Sum	1		
1.1.7	8.3.4	Removal of Site establishment	Sum	1		
1,2	8,4	Scheduled Time Related items				
1.2.1	8.4.1	Contractual Requirements	Sum	1		
1.2.2	8.4.2	Operation and maintenance of facilities on site, for duration of construction, except where otherwise stated	Sum	1		
	PSA-8.4.2.1	Facilities for Engineer				
1.2.3		(a) Furnished offices (1 No)	Sum	1		
1.2.4		(c) Nameboards (1 No)	Sum	1		
1.2.5		(d) Survey assistants and materials	Sum	1		
1.2.6	(PSA)	(e) Carports (1 No)	Sum	1		
1.2.7	(PSA)	(f) Survey Equipment (See PSAB-4.2)	Sum	1		
	PSA-8.4.2.2	Facilities for Contractor				
1.2.8		All facilities scheduled in clause 8.4.3.2 of SANS 1200 A	Sum	1		
1.2.9	8.4.3	Supervision for duration of construction	Sum	1		
1.2.10	8.4.4	Company and Head Office overhead costs for the duration of the contract	Sum	1		
1.2.11	8.4.5	Other time-related obligations	Sum	1		
TOTAL CARRIED FORWARD						



ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
1,3	PSA - 8.5	Sums Stated Provisionally by Engineer				
	(PSA)	-				
		(c) Additional tests				
1.3.1		(1) Additional tests ordered by the Engineer	Prov Sum	1	R 40 000,00	R 40 000,00
1.3.2		(2) Handling of costs and charges on (c)(1)	%	40 000		
	(PSA)	(d) Community Liaison Officer				
1.3.3		(1) Communnity Liaison Officer	Prov Sum	1	R 60 000,00	R 60 000,00
1.3.4		(2) Handling of costs and charges on (d)(1)	%	60 000		
	(PSA)	(e) Training of Labourers				
1.3.5		(1) Training of labour	Prov Sum	1	R 100 000,00	R 100 000,00
1.3.6		(2) Handling of costs and charges on (e)(1)	%	100000		
		(f) Communication				
1.3.7		(1) Provision for telephone service for use by Engineer	Prov Sum	1	R 25 000,00	R 25 000,00
1.3.8		(2) Handling of costs and charges on (f)(1)	%	25 000		
1,4	8,8	TEMPORARY WORKS				
1.4.1	PSA-8.8.2	Dealing with Traffic	Sum	1		
1,5	PS-10	OHSA REQUIREMENTS				
		Compliance with the Occupational Health and Safety Act (Act 85 of 1993) and the relevant Regulations and Construction Regulations and the Employer's Health and Safety Specification				
1.5.1		Additional over 1.5.1 for the items below:	Sum	1		
1.5.2		Training of site personnel	Sum	1		
1.5.3		SHE representative	Sum	1		
1.5.4		First aid equipment	Sum	1		
1.5.5		Firefighting equipment	Sum	1		
1.5.6		Personal protective clothing	Sum	1		
1.5.7		Barricading	Sum	1		
1.5.8		Signs	Sum	1		
1.5.9		Medical surveillance tests	Sum	1		
TOTAL CARRIED FORWARD						



ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
		DAYWORK SCHEDULE				
1,6		<i>Labour</i>				
1.6.1		a) Unskilled workers	hr	30,00		
1.6.2		b) Skilled workers (Artisans)	hr	20,00		
1.6.3		c) Operators and drivers	hr	20,00		
1.6.4		d) Foremen	hr	10,00		
1.6.5		e) Surveyor (including instruments and transport)	hr	30,00		
1,7		<i>Construction Plant</i>				
1.7.1		m) Lowbed transport of plant to and from the site	t.km	800,00		
1.7.2		p) Front-end loaders - 85kW, 11 ton mass	hr	8,00		
1.7.3		q) Back-acting excavators - 100 kW, 21 ton mass	hr	16,00		
1.7.4		t) Vibratory roller, self propelled - 90kW, 10 ton mass	hr	16,00		
1.7.5		v) Trucks - 10m ³ (Double Diff)	hr	16,00		
1.7.6		x) Tractor Loader Backhoe (4x4) 56 kW	hr	32,00		
TOTAL CARRIED FORWARD TO SUMMARY						



ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2		PART 2: SEWER RETICULATION				
2.1	SANS	SECTION: EARTHWORKS (PIPE TRENCHES)				
	1200 DB					
	8.3.1	Site Clearance and removal of topsoil				
2.1.1		(a) Clear Vegetation and trees of girth up to 1m (strip 3m wide)	m	300		
	8.3.2	Excavation				
	(PSDB)	(a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material				
		(1) Up to 160 mm dia pipes for depths				
2.1.2		Over and up to (i) 0,0 m 2 m	m	250		
		(b) Extra-over item (a) above for :				
2.1.3		(1) Intermediate excavation	m ³	56		
2.1.4		(2) Hard rock excavation	m ³	84		
2.1.5		(c) Excavate and dispose of unsuitable material from trench bottom (provisional)	m ³	141		
	(PSDB)	(d) Extra-over item 8.3.2 (a) above for hand excavation.				
		(1) Up to 160 mm dia pipes for depths				
		Over and up to				
2.1.5		(i) 1,0 m 2 m	m	250		
2.1.6	(PSDB)	(e) Extra over (c) above for hardcore filling of 38 mm crushed stone to trench bottom.	m ³	50		
TOTAL CARRIED FORWARD TO SUMMARY						



ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.2	SANS	SECTION : BEDDING (PIPES				
	1200 LB					
	8.2.1	Provision of bedding from trench excavation				
2.2.1		(b) Selected fill material	m ³	500		
	8.2.2	Supply only of bedding by importation				
	8.2.2.3	From commercial sources (provisional)				
2.2.2		(a) Selected granular material	m ³	30		
2.2.3		(b) Selected fill material	m ³	90		
2.2.4	8.2.3	Concrete bedding cradle of class 20 MPa/13 mm concrete (provisional)	m ³	4		
2.2.5	(PSLB)	Screening of selected bedding material	m ³	14		
TOTAL CARRIED FORWARD TO SUMMARY						



ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.3	SANS 1200LD	SECTION : SEWERS				
	8.2.1	Supply, lay, joint, bed and test pipelines (a) Maincore 400 kPa uPvc solid wall sewer pipes on Class B Bedding or approved similar				
2.3.1	8.2.3	(1) 160 mm dia Manholes	m	300		
	(PSLD)	Manholes as per detailed drawings with Type 2A cast iron frame and concrete cover: (a) 1000 mm dia chamber for depths: Over and up to				
2.3.2		(i) 1,0 m 2,0 m	No	5		
	8.2.6	Building connection 110mm dia. complete inclusive of access junction and Permanent plug stoppers as detailed on drawings (a) Type 1: for depths: Over and upto				
2.3.3		(i) 1,0 m 2,0 m	No	4		
		(a) Type 2: for depths: Over and upto				
2.3.4		(i) 1,0 m 2,0 m	No	2		
	8.2.7	Encasing of pipes in grade 20 MPa/13 mm concrete (provisional)				
2.3.5		(a) 110 mm dia pipes	m ³	5		
2.3.6	8.2.8	Anchor blocks, concrete mix 20 MPa (inclusive of formwork)	m ³	5		
	8.2.13	Septic Tanks				
2.3.7	(PSLD)	(a) Construct 10 m ³ septic tank complete as indicated on the drawings including excavation, backfilling, fittings, pipework, manholes cover and frames etc.	No	1		Rate Only
	8.2.14	<u>Soak field</u>				
	(PSLD)	(a) Construct soak field complete as detailed on the drawings including excavation, slotted uPvc pipework, backfilling with cobble stones etc	No	1		Rate Only
TOTAL CARRIED FORWARD TO SUMMARY						



ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		PART 3 : WATER SUPPLY				
1,1	SABS 1200DB	SECTION: EARTHWORKS (PIPE TRENCHES)				
	8.3.1	Site Clearance and removal of topsoil				
1.1.1		(a) Clear Vegetation and trees of girth up to 1m, strip 3m wide.	m	450		
	8.3.2	Excavation				
	(PSDB)	(a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material				
		(1) Up to 200 mm dia pipes for depths				
		Over and up to				
1.1.2		(i) 1,0 m 1,5 m	m	450		
	(PSDB)	(b) Extra-over item (a) above for:				
1.1.3		(2) hard rock excavation	m ³	120		
1.1.4	(PSDB)	(e) Extra over item 8.3.2 for excavation by hand in all materials adjacent to existing services, including backfilling and/or disposal of surplus material (all depths)	m ³	5		
	8.3.3	Excavation ancillaries				
1.1.5	8.3.3.3	Compaction in road reserves and street crossings	m ³	50		
TOTAL CARRIED FORWARD TO SUMMARY						



ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2,1	SABS 1200 L 8.2.1	SECTION: MEDIUM-PRESSURE PIPELINES Supply, handle, lay, cut, joint and bed pipes on Class C bedding, disinfect and test:				
	(PSL)	(a) uPVC pressure pipes with "Lyng" joints or similar approved (provisional)				
2.1.1		(i) 50 mm dia Class 12	m	400		
		(b) HDPE PE 100 PN 10 with compression fittings or similar approved				
2.1.2		(i) 25 mm dia	m	80		
2.1.3		(ii) 75 mm dia	m	250		
	8.2.2	Extra-over 8.2.1 for the supplying, laying on Class C bedding of specials complete with couplings (provisional)				
	(PSL)	(a) Bends CI Class 16 for uPVC pressure pipes				
2.1.4		(1) 25 mm dia 90 degree	No	6		
2.1.5		(2) 50 mm dia 11.25 degree	No	10		
2.1.6		(3) 50 mm dia 22.5 degree	No	3		
2.1.7		(4) 50 mm dia 45 degree	No	1		
2.1.8		(5) 50 mm dia 90 degree	No	1		
		(b) Cast iron tees				
2.1.9		(1) 110 mm x 110 mm dia	No	1		
2.1.10		(2) 160 mm x 110 mm dia	No	4		
2.1.11		(3) 160 mm x 160 mm dia	No	1		
		(c) Steel tees				
2.1.12		(1) 150 x 150 mm dia plain ended flanged t-end	No	1		
		(d) Viking Johnson Couplings				
2.1.13		(1) 150 mm dia	No	2		
		(e) Cast iron hydrant tees				
2.1.14		(i) 160 mm dia	No	2		
		(f) Cast iron flanged adaptor				
2.1.15		(i) 50 mm dia	No	1		
TOTAL CARRIED FORWARD						



ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
2.1.16		(ii) 110 mm dia	No	6		
2.1.17		(iii) 160 mm dia	No	6		
		(g) Cast iron reducers				
2.1.18		(i) 160 mm x 110 mm dia	No	2		
2.1.19		(ii) 110 mm x 50 mm dia	No	1		
		(h) Steel puddle pipe 1 m long flanged				
2.1.20		(1) 50 mm dia	No	1		
2.1.21		(2) 100 mm dia	No	3		
		(j) Blank flange steel				
2.1.22		(1) 50 mm dia	No	1		
2.1.23		(2) 100 mm dia	No	3		
		(k) Cast Iron End Caps				
2.1.24		(i) 110 mm dia	No	2		
	8.2.3	Extra-over 8.2.1 for the supplying, fixing, and bedding of valves				
	(PSL)	(a) Class 16, waterworks type gate valves to SABS 664, cap top, non- rising spindle, Clockwise closing				
2.1.25		(i) 50 mm dia	No	3		
2.1.26		(ii) 100 mm dia	No	4		
2.1.27		(iii) 150 mm dia	No	3		
2.1.28		(d) Hydrant valve, complete installation as shown on the drawings and to local council standards	No	2		
	8.2.11	Anchor/thrust blocks and pedestals				
2.1.29		(b) Grade 15 MPa/19 mm concrete in small quantities to thrust and anchor blocks including shuttering	m ³	5		
2.1.30	8.2.12	Concrete casing of pipes with class 20 MPa/19 mm concrete all diameters (provisional)	m ³	5		
TOTAL CARRIED FORWARD						



ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						R -
2.1.31	8.2.13 (PSL)	Valve chambers, and manholes complete as detailed on the drawings etc.				
		(a) Valve chamber for valves 50 mm up to 200 mm diameter complete as detailed on the drawings	No	3		
2.1.32	8.2.15 (PSL)	Special wrapping flanges, pipe fittings and couplings in corrosive soil as specified in PSL-3.9.6 (provisional quantity)	No	25		
	PSL-8.2.16	Borehole				
		Flashing of existing borehole and installation of pumps	Prov Sum	1		R 50 000,00
		(b) Handling charges and profit on (a) above	%	50 000		
	PSL-8.2.16	Steel water tank				
		(a) Elevated Tank size 3.66m * 3.66m * 2.44m (30m³) on a steel tank 10m high stand supported by a concrete base and plinths with super laykold lining complete as indicated on the drawings	No	1		
	PSL-8.2.17	Water Booster and Fire Pump Sets				
		Complete installation of booster pump sets by a selected subcontractor				
		(a) Install water booster and fire pump sets, inclusive of all pumps, valves, piping, controls and electrical installation	Prov Sum	1		R 50 000,00
		(b) Handling charges and profit on (a) above	%	50 000		
	PSL-8.2.18	Fire Hose Cabinet				
		(a) Steel weather proof fire hose cabinet containing 3 lengths of 65 mm 30 m long fire hose (rolled), AWG hand-controlled branch pipe with jet/spray/on-off setting	No	2		
	8.2.19 (PSL)	Solar Hot Water Systems				
		Complete installation for the works as a whole to be done by a selected sub contractor to be appointed after the award of the contract				
		(i) Supply and install 2 x Kwikot Sol-200 indirect thermo siphon system with powerz-on (st, 2.5) flat plate collectors complete inclusive off all fittings valves ext. on concrete slab or approved similar.	Prov Sum	1,00		40 000,00
		(ii) Handling charges and profit on (i) above	%	40 000		
TOTAL CARRIED FORWARD TO SUMMARY						



ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3,1	SABS 1200 LB	SECTION: BEDDING (PIPES)				
	8.2.1	Provision of bedding from trench excavation				
3.1.1		(b) Selected fill material	m ³	290		
	8.2.2	Supply only of bedding by importation				
	8.2.2.3	From commercial sources (provisional)				
3.1.2		(b) Selected fill material	m ³	75		
3.1.3	8.2.3	Concrete bedding cradle of class 20 Mpa /13mm concrete (provisional)	m ³	5		
3.1.4	PSLB	Screening of selected bedding material	m ³	300		
TOTAL CARRIED FORWARD TO SUMMARY						



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
17,00	CLEARING AND GRUBBING				
17,01	Clearing and grubbing	m ²	5000,0		
17,02	Removing and grubbing of large trees and tree stumps				
	(a) Girth exceeding 1m up to and including 2m	No	1		
	(b) Girth exceeding 2m up to and including 3m	No	1		
17,03	Re-clearing of surfaces (on the written instructions of the Engineer only)	m ²	20,0		
TOTAL CARRIED FORWARD TO SUMMARY					
21,00	DRAINS				
21,01	Excavation for open drains:				
	(a) Excavating soft material situated within the following depth ranges below the surfaces level:				
	(i) 0 m up to 1,5 m	m ³	120		
	(b) Extra over subitem 21.01(a) for excavation in hard material, irrespective of depth	m ³	12		
TOTAL CARRIED FORWARD TO SUMMARY					
22,00	PREFABRICATED CULVERTS				
22,01	Excavation				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0 m up to 1,5 m	m ³	61		
	(ii) Exceeding 1,5 m and up to 3,0 m	m ³	12		
	(b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth	m ³	30		
22,02	Backfilling:				
	(a) Using the excavated material	m ³	36		
	(b) Using imported selected material	m ³	7		
	(c) Extra over subitems 22.02(a) and (b) for soil cement backfilling with 5% cement of the dry mass	m ³	10		
22,03	(1) 450 mm dia class 100D concrete pipe culvert on class B bedding	m	0		
	(1) 600 mm dia class 100D concrete pipe culvert on class B bedding	m	50		
	(2) 750 mm dia class 100D concrete pipe culvert on class B bedding	m	50		
22,07	Cast in situ concrete and formwork				
	(c) In inlet and outlet structures, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including class U2 surface:				
	(i) Class 25/19 concrete	m ³	12,00		
22,10	Steel Reinforcement				
	© Welded Mesh (292 Ref)	kg	150,00		
TOTAL CARRIED FORWARD TO SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
23,00	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS				
23,01	Concrete kerbing				
	(a) Precast kerbing to SABS 927				
	(2) Figure 8B (Mountable)	m	250		
TOTAL CARRIED FORWARD TO SUMMARY					
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
31,00	BORROW MATERIALS				
31,01	Excess overburden	m ³	1 250		
31,03	Finishing-off borrow areas in:				
	(a) Hard material	ha	0,4		
	(b) Intermediate material	ha	0,6		
	(c) Soft material	ha	0,8		
B31.03	Fencing-off of borrow pits (stockproof fence) including provision of gates and all warning signs	Sum	1		
B31.04	(a) Allow a Prime Cost Sum as compensation to owner/authority for royalties for land used for gravel borrow pits	PC Sum	1	5000,00	R 5 000,00
B31.04	(b) Handling costs and profit in respect of subitem B31.04(a) above	%	5 000		
TOTAL CARRIED FORWARD TO SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
33,00	MASS EARTHWORKS				
33,01	Cut and borrow to fill, including free-haul up to 0.5km				
	(a) Gravel material in compacted layer thickness of 200 mm and less:				
	(1) Material obtained from cut in the road prism and road prism road reserve and borrow areas;				
	(i) Compacted to 90% of modified AASHTO density	m ³	50		Rate Only
	(c) Rock fill (as specified in subclause 3209(c))	m ³	100		Rate Only
	(d) Toes for rock fill embankments (as specified in subclause 3307(h))	m ³	50		Rate Only
	(e) Pioneer layer (as specified in Subclause 3307(c))	m ³	50		Rate Only
33,03	Extra over item 33.01 for excavating and breaking down material in:				
	(a) Intermediate excavation	m ³			Rate Only
	(b) Hard excavation	m ³	35		Rate Only
	(c) Boulder excavation class A	m ³	30		Rate Only
	(d) Boulder excavation class B	m ³	35		Rate Only
33,04	Cut to spoil, including free-haul up to 0,5 km. Material obtained from:				
	(a) Soft excavation	m ³	960		
	(b) Intermediate excavation	m ³	350		
	(c) Hard excavation	m ³	96		
	(d) Boulder excavation class A	m ³	10		
	(e) Boulder excavation class B	m ³	5		
TOTAL CARRIED FORWARD TO SUMMARY					
34,00	PAVEMENT LAYERS OF GRAVEL MATERIAL				
34,01	Pavement layers constructed from gravel taken from cut or borrow, including free haul up to 1,0km				
	(a) 150 mm Roadbed layer compacted to:				
	(1) 90% of modified AASHTO density	m ³	1000,00		
	(b) 150mm Subbase(Gravel)				
	(1) 93% of modified AASHTO density	m ³	1000,00		
	(f) 150mm Gravel base (stabilized gravel) compacted to:				
	(1) 97% of modified AASHTO density	m ³	0,00		Rate Only
34/16.00	Overhaul				
34/16.01	Overhaul on material hauled in excess of a free-haul distance of 0.5km, for haul up to or through 1.0km (restricted overhaul)	m ³	100,00		
34/16.02	Overhaul on material hauled in excess of 1.0km (ordinary overhaul)	m ³ -km	30000,00		
34/32.04	Removal of oversize pavement material	m ³	100,00		
TOTAL CARRIED FORWARD TO SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
35,00	STABILIZATION				
35,01	Chemical stabilization extra over unstabilized compacted layers				
	(a) 150mm Base	m ³	0,00		Rate Only
35,02	Chemical stabilizing agent:				
	(a) Ordinary Portland cement CEM 42.5	t	0,00		Rate Only
35,04	Provision and application of water for curing	kl	0,00		Rate Only
TOTAL CARRIED FORWARD TO SUMMARY					
41,00	PRIME COAT				
41,01	Prime coat:				
	(c) MC-30 cut-back bitumen	litre	2560,00		
41,03	Extra over item 41.01 for applying the prime coat in areas accessible only to hand held equipment	litre	150,00		Rate only
41/45.00	Asphalt				
	(a) 30mm Asphalt	m ²	3200,00		Rate only
TOTAL CARRIED FORWARD TO SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
51,00	PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION				
51,04	Block paving				
	(d) Prefabricated concrete paving blocks for side walks Construct paving complete with 80mm class 25, Type S-A concrete blocks including 20mm sand and cutting to fit edge, rolling to lockup and ant poison and weed killer				
	(1) 60 mm thick	m ²	350		
	(1) 80 mm thick	m ²			
51,05	Cast in situ concrete edge beams, class 25/19 concrete (Formwork and clause U2 surface finish included)				
	(1) 300mm x 200mm	m	50,0		
	(2) 300mm x 300mm	m			Rate Only
TOTAL CARRIED FORWARD TO SUMMARY					
57,00	ROAD MARKINGS				
57,02	Retro-reflective road marking paint:				
	(a) White lines (broken or unbroken)				
	(1) 100 mm wide	km	1		Rate Only
	(b) Yellow lines (broken or unbroken)				
	(1) 100 mm wide	km	1		Rate Only
	(d) White lettering and symbols	m ²	1		Rate Only
	(e) Yellow lettering and symbols	m ²	1		Rate Only
	(f) Transverse lines, painted island and arrestor bed markings (any colour)	m ²	1		Rate Only
57,06	Setting out and premarking the lines (excluding traffic-island markings, lettering and symbols)	km	1		Rate Only
57,07	Re-establishing the painting unit at the end of the maintenance period	Lump Sum	1		Rate Only
TOTAL CARRIED FORWARD TO SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
59,00	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS				
59,01	Finishing the road and road reserve:				
	(b) Single carriageway road	km	1,1		
59,02	Treatment of old roads and temporary deviations	km	1,1		Rate Only
TOTAL CARRIED FORWARD TO SUMMARY					
73,00	CONCRETE BLOCK PAVING FOR ROADS				
73,01	Concrete block paving				
	(a) Prefabricated concrete paving blocks for Parking				
	(1) 80 mm thick TYPE S-C 25MPa	m ²	3 200		
73,04	Provide Edge beam on walkway (pre-cast 60x65x100)	m	50		
73,05	Provision of approved herbicide and ant poison				
	a) Provision of materials	sum	1	R 20 000,00	R 20 000,00
	b) Contractors charges and profit added to the prime cost sum	%	R 20 000,00		
TOTAL CARRIED FORWARD TO SUMMARY					



SUMMARY		
1700	CLEARING AND GRUBBING	
2100	DRAINS	
2200	PREFABRICATED CULVERTS	
2300	CONCRETE CHANNELLING	
3100	BORROW MATERIALS	
3300	MASS EARTHWORK	
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL	
3500	STABILIZATION	
3600	PRIME COAT	
	PITCHING, STONework AND PROTECTION	
5100	AGAINST EROSION	
5700	ROAD MARKINGS	
	FINISHING THE ROAD AND ROAD RESERVE	
5900	AND TREATING OLD ROADS	
7300	CONCRETE BLOCK PAVING FOR ROADS	
TOTAL SCHEDULE A: ROAD CONSTRUCTION		



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 2</u> <u>EARTHWORKS (PROVISIONAL)</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill SUPPLEMENTARY PREAMBLES <u>Excavations generally</u> The contractor shall notify the principal agent in writing as soon as the excavations are ready to receive foundations and no building work may be started until the principal agent has approved such excavations in writing. Any excavation by the contractor that extends beyond the dimensions required in terms of the construction drawings, or beyond the dimensions instructed by the principal agent (to, for instance, obtain a more solid foundation), shall be filled in by the contractor at the contractor's expense with 10MPa mass concrete, unless otherwise instructed in writing by the principal agent. <u>Nature of ground</u> The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock". <u>Classification of materials</u> If the contractor considers that any of the excavations are more difficult in nature than excavations in "earth", he shall immediately notify the principal agent and quantity surveyor agent in writing. If the contractor fails to make such notification, the excavations shall be deemed to be in "earth" and shall be measured, and valued, accordingly. The contractor may, with the prior written permission of the principal agent and in terms of the conditions of contract, use any method he chooses to excavate any class of material, but his chosen method of excavation shall not determine the classification of the materials excavated. <u>Blasting</u> No blasting will be allowed without the prior written permission of the principal agent. If blasting is necessary, the contractor shall protect the works and persons, animals and property in the vicinity of the works. The contractor will be held responsible for any injury, or damage, caused by any blasting operations and will be hereby deemed to have indemnified the employer and all the employer's agents against such responsibility, and any part of such responsibility.				
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	The contractor may be required to make good such damage at his own expense, and to the principal agent's written approval. <u>Risk of collapse of sides of excavations</u> The contractor shall be responsible for the risk of collapse of all excavated faces. Where excavations do not exceed 1,5m in height, the nature of the precautions to be taken shall be entirely at the contractor's discretion. The contractor shall either temporarily support the excavated faces, or carry the risk of collapse of such faces with all its implications.				
	Where excavations exceed 1,5m in height, the contractor shall maintain all excavated faces in accordance with Government Regulations. <u>Keeping excavations free of water</u> The contractor shall protect the excavations from the ingress of water. Any water which occurs in the excavations, whether as a result of seepage, rain, or other causes, shall immediately be removed by baling, pumping, or other approved means. <u>Compaction of all "filling" and "backfilling"</u> Unless otherwise described, all "filling" and "backfilling" is hereby deemed to be compacted to 93%Mod.AASHTO density. <u>Carting away of excavated material</u> Descriptions of carting away excavated material, and/or demolished material, shall be deemed to include loading excavated material, and/or demolished material, onto trucks directly from the excavations, or from stock piles situated on the building site. The contractor is hereby deemed to be responsible for the choice of dumping site. If a dump-site is foreclosed, or unavailable, for whatever reason, it remains the contractor's responsibility to timeously obtain a suitable replacement dump-site without additional cost to the employer.				
TOTAL BROUGHT FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>METHOD STATEMENT</u>				
1	The contractor is to submit to the principal agent, prior to the commencement of any contractor's work, a written method statement in respect of the contractor's proposed site establishment, service arrangements, site clearance, excavation, location of spoil heaps, etc., for written approval. If the contractor fails to comply with this requirement and any additional expense is incurred as a result of the contractor's unilateral choice of the location of his establishment, or any other such unilateral decision, the consequential cost of rectifying such situation will be for the contractor's account.	Item	Incl.		
	<u>EXISTING WORK</u>				
2	The contractor shall survey the existing levels on site to an approved detailed grid-line and submit a written report thereon to the principal agent before commencing the works.	Item	Incl.		
3	Upon being granted occupation of the site, the contractor shall verify all setting out and other points of reference on site and, to an approved detail, report in writing thereon to the principal agent before commencing the construction works.	Item	Incl.		
4	Insofar as is reasonably possible, the contractor shall identify, and expose where so directed by the principal agent, all existing underground services on site.	Item	Incl.		
5	Before starting work the contractor shall carry out a thorough survey and examination of the areas affected by all the earthworks, including roads, paths, etc., and make a written report to the principal agent thereon. The contractor is to locate and mark the positions of existing services affected by such earthworks, etc. The cost of rectifying any damage by the contractor, or his employees, representatives, subcontractors, or anyone for whom the contractor is responsible, to existing pipes, cables, services, etc., which could reasonably have been foreseen and avoided by such survey, shall be for the contractor's account. <u>EXCAVATION, FILLING, ETC., OTHER THAN BULK</u> Excavation in compacted soil not exceeding 2m deep	Item	Incl.		
6	To reduce levels to final levels under floors, etc	m ³	550		
TOTAL BROUGHT FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
7	Trenches	m ³	700		
8	Holes	m ³	40		
9	Thickening under surface beds etc	m ³	2		
	Extra over all excavations other than bulk excavations for carting away				
10	Surplus material from excavations to stock piles on site	m ³	1 292		
	Risk of collapse of sides of excavations other than bulk excavations				
11	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	800		
	Keeping excavations other than bulk excavations free of water				
12	Keeping excavations free of all water other than subterranean water	Item	1		
	<u>FILLING ETC</u>				
	Earth filling from excavations compacted to 95% Mod. AASHTO density				
13	Backfilling to trenches, holes, etc.	m ³	350		
	Earth filling from stock pile on site compacted to 95% Mod AASHTO density				
14	G7 earthfilling behind retaining wall	m ³	800		
	Earth filling supplied by the Contractor compacted to 95% Mod AASHTO density				
15	G7 earth filling behind retaining wall	m ³	2 000		
16	G5 soil improvement on all foundations	m ³	0		
	C4 Gravel Base (stabilized gravel) compacted to 97% of modified AASHTO density				
17	150mm Layer	m ³	50		
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>SOIL POISONING</u>				
	Soil insecticide				
18	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m ²	1 350		
19	To bottoms and sides of trenches, etc	m ²	800		
	<u>BUDGETARY ALLOWANCES</u>				
	Budgetary allowances				
20	Allow a budgetary allowance for soil and density testing	Item	1	15 000,00	15 000,00
TOTAL CARRIED TO THE SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	10MPa/19mm concrete				
1	Surface blinding to receive surface beds	m ³	20		
2	Surface blinding to receive footings and bases	m ³	12		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	25MPa/19mm concrete				
3	Strip footings	m ³	100		
4	Bases	m ³	10		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	30MPa/19mm concrete				
5	Surface beds cast in panels on waterproofing	m ³	40		
	<u>REINFORCED CONCRETE</u>				
	25MPa/19mm concrete				
6	Retaining walls in foundations	m ³	135		
7	Retaining walls	m ³	150		
	30MPa/19mm concrete				
8	Plinth	m ³	5		
9	Columns	m ³	11		
10	Raking slabs, ramps, etc.	m ³	10		
	<u>TEST BLOCKS</u>				
11	Making and testing 150 x 150 x 150mm concrete strength test cube	No	25		
	<u>CONCRETE SUNDRIES</u>				
	Finishing top surfaces of concrete smooth with a power float with and including floor hardener and curing compound				
12	Surface beds, slabs, etc. to falls	m ²	525		
	30 MPa non-shrink grout				
13	Bedding approximately 25mm thick under 240 x 240mm base plate, including chamfered edges all round	No	2		
14	Bedding approximately 25mm thick under 290 x 330mm base plate, including chamfered edges all round	No	30		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
	Rough formwork to sides				
15	Plinth	m ²	48		
16	Retaining walls in foundations	m ²	120		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
	Smooth formwork to sides				
17	Retaining walls	m ²	1 152		
18	Rectangular columns	m ²	60		
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
19	Boxing in smooth formwork to form 20 x 20mm Vertical chamfer at corner <u>MOVEMENT JOINTS, ETC.</u> Isolation joints with 10mm thick softboard between vertical concrete and brick/concrete surfaces, including all necessary formwork	m	150		
20	10mm Joints not exceeding 300mm high Saw-cut joints	m	250		
21	3 x 30mm Saw-cut joints in top of concrete Joggle construction joint through concrete, including thick cement slurry to one face	m	60		
22	Surface beds not exceeding 300mm thick	m	100		
<u>REINFORCEMENT</u> Mild steel reinforcement to structural concrete work					
23	10mm Diameter bars	t	0,30		
High tensile steel reinforcement to structural concrete work					
24	10mm Diameter bars	t	1,50		
25	12mm Diameter bars	t	19,00		
26	16mm Diameter bars	t	8,00		
27	20mm Diameter bars Welded steel mesh reinforcement	t	1,00		
28	Type 193 mesh in surface bed	m ²	425		
29	Type 245 mesh in surface bed	m ²	100		
TOTAL CARRIED TO SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 4</u> <u>PRECAST CONCRETE</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill SUPPLEMENTARY PREAMBLES <u>Sizes</u> Blocks, sills, etc., measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared and submitted to the principal agent for approval before moulds are made. ----- <u>PRECAST CONCRETE</u> Winblok modular precast concrete window surrounds, etc., finished smooth on exposed surfaces, including bedding, jointing and pointing NOTE: Window surrounds are to be built into brick walls and pointed all round on both sides with 10 x 10mm square recessed joints. ----- NOTE: Prices are to include for building in as single units, or combinations in patterns of two, or more, window units and for bedding solid all round in mortar and pointing. ----- 1 600 x 400mm single winblock Type WB64260 concrete window frames, including pointing and waterproofing; all to be installed in strict accordance with manufacturers specifications 2 600 x 400mm single winblock Type WB64260 concrete window frames, including pointing and waterproofing; all to be installed in strict accordance with manufacturers specifications 3 600 x 400mm double winblocks, Type WB64260 concrete window frames, one on top of the other including pointing and waterproofing; all to be installed in strict accordance with manufacturers specifications 4 600 x 400mm double winblocks, Type WB64260 concrete window frames, one on top of the other, including pointing and waterproofing; all to be installed in strict accordance with manufacturers specifications Precast pre-stressed concrete lintels 5 110 x 75mm Lintels in lengths not exceeding 3m Paving and Paving Blocks 6 80mm Thick 25MPa 'G-BLOCK' precast concrete interlocking block paving grey colour in accordance with SANS 1058, laid to falls on and including 20mm thick sand layer with joints filled in with sand, compacted with a vibration compactor.				
		No	26		
		No	6		
		No	12		
		No	12		
		m	10		
		m ²	300		
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 5</u> <u>MASONRY</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill SUPPLEMENTARY PREAMBLES <u>BRICKWORK</u> <u>Sizes in descriptions</u> Where sizes in descriptions are given in brick units, "one-brick" shall represent the length and "half-brick" the width of a brick. <u>Hollow walls, etc.</u> Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating. <u>Face bricks</u> Bricks shall be ordered timeously to obtain uniformity in size and colour. <u>Pointing</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc. BLOCKWORK <u>Concrete masonry units</u> Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7 MPa.				
	<u>Wall ties for blockwork</u> Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m minimum the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other.				
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>Standard complementary blocks</u> Descriptions of blockwork shall be deemed to include standard complementary blocks, such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc., to solid and hollow walls and for bonding as necessary. ----- <u>DECORATIVE BLOCKS</u> Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour. <u>SAMPLES</u> Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site. <u>PROTECTION</u> Faced brickwork, faced blockwork, quarry tiles, stonework and all such finishes shall be carefully protected from damage, defacement, staining and mortar splashes and shall be thoroughly cleaned down as the work proceeds. <u>MASONRY</u> Unless otherwise required by the:- (1) specified Model Preambles for Trades, or (2) what is contained elsewhere in the works Specification, or (3) what is contained elsewhere on works drawings, or (4) what is described elsewhere in these bills of quantities, Masonry walling, and its associated materials, methods of construction, construction details, permissible deviations and everything else that can be reasonably claimed to be part of the specification of "Masonry walling", as described therein, shall comply with SANS 2001-CM1:2007 Edition 1 "Masonry Walling".				
	<u>FOUNDATIONS (PROVISIONAL)</u> Brickwork of NFX clay bricks in Class II mortar 1 One-brick walls m² 140 <u>SUPERSTRUCTURE</u> Brickwork of NFP clay bricks in Class II mortar 2 One brick dwarf wall, 170mm high m 8 3 Half brick walls m² 15				
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
4	One brick walls	m ²	150		
5	One brick walls in beamfilling	m ²	1		
<u>BRICKWORK SUNDRIES</u>					
Welded steel reinforcement in brickwork					
6	75mm Wide reinforcement built in horizontally	m	450		
7	150mm Wide reinforcement built in horizontally	m	2 500		
Turning Pieces					
8	230mm wide turning pieces	m	17		
<u>FACE BRICKWORK</u>					
Bricks shall be ordered timeously to obtain uniformity in size and colour.					
Corobrik FBX Face bricks laid in stretcher bond to 85mm courses with 6mm deep ruled square joints.					
9	Extra over ordinary brickwork for face brickwork in foundations (Provisional)	m ²	52		
10	Extra over ordinary brickwork for face brickwork in superstructure	m ²	300		
Brick-on-edge header course copings, sills, etc., of "Corobrik" FBX face bricks pointed with recessed joints on all exposed faces					
11	Extra over brickwork for brick-on-edge header course lintel pointed on end and 115mm soffit	m	6		
12	180mm Wide sill set level and slightly projecting	m	4		
TOTAL CARRIED TO THE SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 6</u> <u>WATERPROOFING</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill SUPPLEMENTARY PREAMBLES <u>Waterproofing</u> Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc. with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs. ----- <u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u> 4mm "Derbigum SP" waterproofing 1 Derbigum on retaining walls m ² 576 <u>DAMP-PROOFING OF WALLS AND FLOORS</u> One layer of 250 micron "Plastall Gunplas USB Green" waterproof sheeting Type C, sealed at laps with "Gunplas Pressure Sensitive Tape" 2 Under surface beds m ² 550 One layer of Type B 375 micron "Consol Plastics Brikgrip DPC" embossed damp-proof course 3 In walls m ² 245 4 Under window sills m ² 4 <u>JOINT SEALANTS, ETC.</u> Sikaflex 11 FC polyurethane sealing compound, including backing cord, bond breaker, primer etc. 5 10 x 10mm in isolation joints between vertical concrete and brick/concrete surfaces m 484 6 3 x 30mm in saw cut joints between White silicon m 1 050 7 3mm to floor/wall junctions m 39				
TOTAL CARRIED TO SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 7</u> <u>ROOF COVERINGS</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill Roof sheeting and its accessories is to be guaranteed, in writing, against failure in material and workmanship for a period of TEN years after the date of practical completion. ----- <u>TILES</u> Marley "Ludlow" concrete roof tiles nailed with non-corrosive tile nails to 38 x 38mm sawn softwood battens at 320mm centres 1 Roof covering (Timber roof structure measured elsewhere) m ² 100 2 Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour m 25 <u>PROFIED METAL SHEETING AND ACCESSORIES</u> Supply, deliver to site, erect and fix "IBR" sheeting and accessories,with galvanised finish on one side and fixed to steel purlins with all in accordance with manufacturer's instructions including all cutting including raking cutting and waste 3 Roof covering with pitch not exceeding 25 degrees m ² 1 4 Ridge capping 450mm girth m 500 60 5 Corner trim 450mm girth m 140 6 Rolled edges at verge m 98 7 Side cladding m ² 220 8 Drip flashing 185mm girth m 98 9 Head wall flashings m 100 10 Side wall flashing m 80 11 Moulded narrow and broad rib polyethylene filler blocks m 320				
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
12	0.6mm IBR 375 spelter galvanised ribbed sheet steel with silicone polyester finish on one side in single lengths fixed to steel girts with 0.6mm galvanised sheet steel accessories with "Colomet" silicone polyester finish on one side. Extra over side cladding for 3mm semi-opaque 50% light transmission "polycarbonate" translucent panel <u>ROOF VENTILATORS</u> Curvent	m ²	350		Rate Only
13	Product No FK450S Slope mounted roof ventilator 16 600mm long fixed through "IBR" roof sheeting to steel purlins including watertight heading joints, necessary sealing strips, fixing accessories, etc all in accordance with manufacturers specifications	No	16		Rate Only
TOTAL CARRIED TO THE SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 8</u> <u>CARPENTRY AND JOINERY</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill SUPPLEMENTARY PREAMBLES <u>Joinery</u> Descriptions of frames shall be hereby deemed to include frames, transoms, mullions, rails, etc. Descriptions of hardwood joinery shall be hereby deemed to include pelleting of bolt holes with pellets made from the same type of hardwood, that matches the colour and grain. <u>Fixing</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete. <u>Decorative laminated finish</u> Laminated finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish. <u>Nomenclature of imported timbers</u> The name used for imported timbers are those given in Supplement No. 1 to SABS 02, namely "Nomenclature of Standard Trade Names of Imported Commercial Timbers used in South Africa". ----- <u>ROOFS</u> Wrought softwood grade				
1	38 x 38mm Battens for concrete roof tile covering	m	26		
2	50 x 38mm Purlins nailed	m	54		
3	114 x 38mm mm Rafters at 900mm centres in lengths exceeding 2.4m and not exceeding 4.8m	m	135		
	<u>PREFABRICATED TRUSS ROOF CONSTRUCTION</u> Prefabricated Roof Trusses The timber roof trusses shall be designed, constructed, delivered to site, erected, fixed and aligned by the contractor. The design, construction and erection of the timber roof trusses is to be in accordance with The Code of Practice for General Procedure and Loadings (SANS 10160) and the Code of Practice for the Design of Timber Structures (SANS 10163). The contractor shall submit a certificate to this effect before starting such part of the works. Such certificate shall be signed by the registered professional engineer responsible for such design.				
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
4	All timber for the trusses, secondary members, wall plates, purlins, cross-bracing, sundries, etc., shall be in accordance with either:- SANS 1783 for Stress Graded Softwood General Structural Timber SANS 1783 for Stress Graded Softwood Engineering Timber SANS 1460 for Structural Laminated Timber SANS for Battens and Brandering, as required. These specifications cover structural grades S5, S7 and S10. Connectors shall be fabricated from prime structural steel with guaranteed values, hot dipped galvanised to Z275g/m2. They shall range in thickness from 1mm to 1.6mm to suit their individual requirements. The manufacture of timber trusses shall use rigid jig systems to ensure consistent dimensions and performance. This work shall be undertaken by a fabricator who has been awarded an Institute for Timber Construction (ITC) Certificate of Competence. Roof trusses are to be fabricated with members of the necessary sizes to comply with the design requirements. Trusses shall be fixed at approximately 800mm centres, and shall receive concrete roof tiles, 50 x 38mm timber purlins at 320mm centres, with 6mm thick gypsum plasterboard flush-plastered ceilings with substructure support system. Eaves overhangs shall be 500mm wrot. The roof pitch shall be 3.5 degrees to the horizontal. Prices are hereby deemed to include for the cost of all these Preambles and the prescribed certificates. Working drawings The contractor shall timeously submit to the principal agent, with the aforesaid certificate, one set of comprehensive working details that clearly depict all the proposed truss designs, connection details, bracings, fixings and the assumed loadings, and obtain the principal agent's written approval before starting this work	Item	1		
5	Trusses at 800mm centres Monopitch truss with a clear span between 230mm thick supporting walls of 3200mm, top-chord at 3.5-degrees to the horizontal, high-side of truss with 520mm high post and 500mm eaves overhang, low-side of truss with 180mm high post and 500mm wrot eaves overhang <u>EAVES, VERGES, ETC.</u>	No	6		
6	Fibre cement 115 x 10mm Fascias and barge boards <u>DOORS, ETC.</u>	m	12		
7	Hardwood Battened doors hung to steel frame 40mm Framed Hardwood batten flush back door 813 x 2032mm high	No	3		
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
8	40mm Framed Hardwood batten flush back door 813 x 2032mm high, undercut by 75mm <u>SHEET METAL COVERING ON DOORS</u> 2mm Thick brushed grade 316 stainless steel covering	No	5		
9	Both sides of solid core flush laminated door size overall 813 x 2032mm high, including dressing neatly around edges <u>CILLS, ETC PLUGGED</u> Pressed Nutec	No	1		
10	150 x 16mm Window cills <u>BUDGETARY ALLOWANCES</u> Budgetary allowances	m	4		
11	Allow a budgetary allowance for benches to change rooms	Item	1		
TOTAL CARRIED FORWARD TO SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BILL NO. 9 <u>CEILING, PARTITIONS AND ACCESS FLOORING</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill SUPPLEMENTARY PREAMBLES Unless specifically otherwise described elsewhere in these bills of quantities, the General Specification for Ceilings, May 2007 or any current revised edition, as published by the South African Building Interior Systems Association, under the aegis of the Association of Architectural Aluminium Manufacturers of South Africa, including all parts of such Specification, shall apply in respect of ceilings and all work associated with such ceilings, and to the extent that such Specification does not contravene, or contradict, the System of Measuring Building Work that is applicable to these bills of quantities. <u>Descriptions</u> Items described as "nailed" are hereby deemed to be fixed with hardened steel nails, or pins, or be shot-pinned, to brickwork, or concrete. Items described as "plugged" are hereby deemed to include holing for and screwing into, and including, fibre, plastic, or metal plugs, at not exceeding 600mm centres, in, and including, suitable mortices in masonry, or reinforced concrete. Items described as "bolted" are hereby deemed to include holing for bolts at not exceeding 600mm centres, the bolts being measured elsewhere. Notches and holes that do not exceed 300mm diameter, or 0.07m² in area, are hereby deemed to be included in the descriptions of the ceilings, bulkheads and partitions, and no claim for additional costs arising from the tenderer having failed to take this into account will be acceptable. Openings that exceed 300mm diameter, or 0.07m² in area, are measured in number as "Extra over ceiling", or "Extra over bulkhead", or "Extra over partition", and descriptions are hereby deemed to include additional trimmers, hangers, etc., insofar as they apply, and making good. -----				
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>CEILINGS, ETC.</u>				
	<u>NAILED-UP CEILINGS</u>				
	6.5mm Gypsum plasterboard				
1	Ceilings including 51 x 38mm sawn softwood branderling at 400mm centres and standard H-jointing strips	m ²	105		
	Extra over 2 550mm high gypsum plasterboard ceiling system for				
2	Not exceeding 150mm sprinkler head	No	4		
3	Not exceeding 300mm diameter downlighter	No	7		
4	600 x 600mm Access panel	No	3		
5	600 x 600mm Diffuser	No	7		
	Gypsum plasterboard cornices				
6	75mm Coved cornice, plugged	m	180		
	<u>CEILING INSULATION</u>				
	50mm Thick "Aerolite" fibreglass" insulation				
7	Laid on ceilings suspended not exceeding 1m below concrete soffits	m ²	105		
	<u>BUDGETARY ALLOWANCES</u>				
	Budgetary allowances				
8	Allow a budgetary allowance for bulkheads	Item	1	25 000,00	25 000,00
TOTAL CARRIED FORWARD TO SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 10</u> <u>FLOOR COVERINGS, WALL LININGS, ETC.</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill <u>VINYL</u> 2,5mm "Marleyflex" MF 1901 Vinyl asbestos tiles 300 x 300mm, on powerfloat slab with preparation and fixing to manufacturer's specifications.				
1	On floors	m ²	60		
	<u>SKIRTINGS, NOSINGS, ETC.</u> Marley Extruda				
2	Vinyl coved skirting	m	81		
	<u>POLISH, SEALERS, ETC</u> Scrub with a neutral detergent and seal with three coats water based floor dressing				
3	Vinyl flooring	m ²	60		
TOTAL CARRIED FORWARD TO SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO.11</u> <u>IRONMONGERY</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill <u>HINGES, BOLTS, ETC.</u> LOCKS Solid				
1	Blesbok double cylinder lockset E41 Satin Chrome	No	5		
2	WC Mortice indicator lockset	No	6		
	<u>HANDLES</u> Linea Cali				
3	Brass flush handle	No	5		
	<u>BATHROOM FITTINGS</u> Vaal				
4	150 x 150 semi-recessed white vitreous china toilet roll holder plugged	No	5		
	Kimberley-Clark				
5	Soap holder plugged (SA 427715)	No	5		
6	Folded towel dispenser (SA 099060)	No	5		
7	Wall mounted waste bin (SA 426213)	No	5		
	<u>LETTERS, NAMEPLATES, ETC.</u> Solid				
8	Art 253 hat and coat hook fixed to door leaf	No	7		
9	Aluminium hat and coat hook fixed to shower door leaf	No	8		
10	150 x 150mm anodised aluminium plate with male or female symbol	No	2		
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>SUNDRIES</u>				
	Solid				
11	38mm Diameter rubber door stop plugged	No	11		
	<u>BUDGETARY ALLOWANCES</u>				
	Budgetary allowances				
12	Allow a budgetary amount for directional signage	Item	1	5 000,00	5 000,00
TOTAL CARRIED TO THE SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 12</u> <u>STRUCTURAL STEELWORK</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill SUPPLEMENTARY PREAMBLES Descriptions Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork. ----- <u>Descriptions</u> The required grade of structural steel is to be 350W. The exposed structural steelwork is to be to "ARCHITECTURAL" standard. The quality of all the workmanship associated with this exposed steelwork, and its decoration, is to be to the highest aesthetic standards and inferior workmanship will be unacceptable. The cost of rectifying, or replacing, unacceptable workmanship will be for the contractor's account. Cost of Painting The cost of structural steelwork is hereby deemed to include the cost of removing all mill scale, rust and foreign matter, and priming with 35 micron red oxide before delivery to site, touch up, prepare and 35mm micron undercoat and 30 micron top coat enamel. Cost rates for steel and galvanised steel are hereby deemed to include the cost of such paintwork. Descriptions Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete.				
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork, or concrete. Where anchor bolts are described as embedded in sides, or soffits, of concrete it shall be deemed to include holes through formwork. ----- <u>Paint Specification</u> All paint shall be applied strictly in accordance with SABS 1200 HC-1988 and the manufacturers instructions. Repair of damaged paint and site painting shall be in accordance with SABS 1200 HC-1988 and SABS 0120: Part 3 Section HC The steelwork shall be cleaned by means of a mechanical wire brush to remove all slag, dirt, rust etc, after all welding has been completed. If the steel is contaminated by oil, it shall be cleaned by means of a suitable detergent before wire brushing. A first coat of zinc chromate primer (to SABS 679) shall be applied to a thickness of 30 microns. A second coat of general purpose undercoat type II (to SABS 681) shall be applied to a thickness of 30 microns. Two coats high gloss enamel (to SABS 0120) shall be applied to 35 microns thickness each. All colours shall be to the architect's specification. The standard of preparation of the steelwork and the thickness of the different coats of paint shall be verified according to SABS 1200 HC Clause 7 and the results submitted to the engineer for approval. Portions of columns, including baseplates, which will be underground, must be painted in accordance with Candidate System 050 (epoxy) to SABS 0120 Section HC Part 3, before erection commences. -----				
1	SHOP DRAWINGS The contractor shall timeously prepare and submit one set of "shop drawings" of the proposed works which depict all the required design information, assumed loadings, applied finishes, cladding, etc., to the required scale. Such shop drawings shall be verified as being to his approval by the appended signature of a currently registered structural engineer who is employed and paid by the contractor <u>STEEL COLUMNS AND BEAMS</u> Welded columns in single lengths with flat section base, top, bearer and connection plates etc.	Item	1		
2	100 x 100 x 4 SHS	t	0,10		
3	305 x 165mm x 46kg/m I-section columns	t	9,00		
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	Welded beams in single lengths with flat section bearer and connection plates, bolts etc to 305 x 165 x 46kg/m "I" columns				
4	203 x 133mm x 25kg/m I-section eaves beams.	t	2,40		
5	165mm Long 100 x 65mm x 8 seating cleat angles welded to columns	t	0,30		
6	305 x 165mm x 40kg/m Portal Frame	t	6,00		
	<u>CONNECTIONS AND PLATES</u>				
	Plates				
7	10mm Cap plate	t	0,02		
8	10mm End plate	t	0,03		
9	10mm Baseplate	t	0,01		
10	20mm Baseplate	t	0,08		
	<u>STEEL RAFTERS, TRUSSES ETC</u>				
	Welded and bolted roof trusses comprising L-section rails, braces, cleats etc and bearer-gusset-and connection plates				
11	10 No truss 1 and 2, each truss size overall 48 000mm x 1000mm high fixed to columns	t	10,00		
	<u>CONNECTIONS AND PLATES</u>				
	Plates				
14	8mm thick Batten plate	t	0,30		
15	8mm thick Gussets or seats	t	0,03		
	<u>PURLINS, GIRTS, BRACING, ETC</u>				
	Purlins and Girts bolted to steel or concrete				
16	150 x 75 x 20 x 2.5mm Cold formed lipped channel	t	4,50		
17	6mm Purlin cleat	t	0,90		
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>STEEL BRACING, SAG RODS ETC.</u>				
	Welded and bolted bracing, etc with flat section connection plates				
18	50 x 50 x 5mm L-section horizontal and vertical sag angles	t	1,00		
19	60 x 60 x 5mm L-sections trimmer	t	0,49		
20	90 x 90 x 6mm L-section horizontal and vertical bracing	t	1,00		
	<u>BOLTS, FASTENERS, ETC.</u>				
21	16mm Diameter U-shaped HD bolt 830mm girth embedded in concrete plinth	No	96		
22	M12 Anchor bolts	No	6		
23	M16 Anchor bolts	No	64		
24	M20 Anchor bolts	No	140		
	<u>PAINTING</u>				
	Prepare and paint all structural steelwork, purlins, girts, etc., in accordance with 1 coat Zink Chromate primer, 1 coat Universal matt oil-tinted undercoat and two coats gloss enamel				
	The cost of the contractor complying with the above-mentioned Specification is hereby deemed to be included in the tendered rates for painting the following structural steelwork, purlins, girts, bracing, etc.				
25	On structural steel trusses, rafters, columns, and beams, etc.	t	50,43		
TOTAL CARRIED FORWARD TO SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 13</u> <u>METALWORK</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill SUPPLEMENTARY PREAMBLES <u>Descriptions</u> Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete. Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described. ----- <u>Kitchen cupboards</u> Unless otherwise described, kitchen cupboards of steel, composite board and timber shall comply with SABS 1385. Steel cupboards shall be finished with baked enamel complying with SABS 783 Type II. Sinks and drainers shall comprise type 304 satin finished stainless steel, complying with SABS 242, with pressed bowls, each bowl with integral slot overflow, 40mm diameter chromium plated brass waste fitting with screwed outlet, rubber plug with a chromium plated chain. ----- <u>STEEL HANDRAILS</u> Mentis handrails to top of retaining wall 1 400mm High Mentis Handrail m 88 <u>STEEL WINDOWS, DOORS, ETC.</u> Purpose-made steel frames including glazing beads 2 Window type NC 2, 1 022mm x 949mm high No 2 3 Window type NC5F, 533 x 949mm high No 2 4 Window type NG1, 533 x 359mm high No 1				
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>ALUMINIUM WINDOW FRAMES (Refer drw J00740-04-36-105-C-00)</u>				
	Powder coated "Winvert"aluminium frames, including ironmongery, clear glass, sealing and fixing to Winblock concrete window frames				
5	Fixed frame for single "Winblocks" size 600 x 400mm high	No	26		
6	Top hung frame for single "Winblocks" 600 x 400mm high	No	6		
7	Fixed frame for double "Winblocks" size 600 x 400mm high	No	10		
8	Fixed frame and Top hung Frame foe double "Winblock"600 x 400mm high	No	12		
	<u>STEEL DOOR FRAMES</u>				
	Double rebated mild steel jamb lining, 155mm O/A frame x 1,2mm material complete with toe straps, lugs, striker plate recess and adjustable chromed striker plate, suitable for half brick walls				
9	Frame for door size overall 813 x 2032mm high	No	8		
	Double rebated mild steel jamb lining, 155mm O/A frame x 1,2mm material complete with toe straps, lugs, striker plate recess and adjustable chromed striker plate, suitable for one brick walls				
10	Frame for door size overall 813 x 2032mm high	No	2		
	<u>SHOWER CUBICLE GLAZED DOORS</u>				
	Showerline satin silver anodised aluminium shower door and frame, with satin silver anodised knob handles and components, sealed all around both sides of frame				
11	915 x 1880mm High Contour Patch hinged door, glazed with, and including, 6mm thick clear toughened safety glass coated with Kleen-Glas Anti-Calc	No	7		
12	1200 x 1880mm High Contour Patch hinged door, glazed with, and including, 6mm thick clear toughened safety glass coated with Kleen-Glas Anti-Calc	No	1		
	<u>BUDGETARY ALLOWANCES</u>				
13	Allow a budgetary allowance of Roller Shutter doors	Item	1		
14	Allow a budgetary allowance for steel staircases	Item	1		
15	Allow a budgetary allowance for lockers	Item	1		
TOTAL CARRIED TO THE SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 14</u>				
	<u>PLASTERING</u>				
	NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised)				
	NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill				
	<u>INTERNAL SCREEDS</u>				
	Screeds power-floated on concrete				
1	30mm Thick on floors	m ²	2 400		
2	30mm Thick on floors to falls	m ²	60		
	Screeds wood-floated on concrete				
3	30mm Thick on treads and risers of dwarf wall	m ²	5		
4	30mm Thick on floors to falls	m ²	8		
	<u>INTERNAL PLASTER</u>				
	One coat sand cement plaster average total thickness of 15mm				
5	On new walls	m ²	1 000		
	Two coats plaster, average total thickness of 15mm, comprising one coat cement plaster and gypsum skim plaster.				
6	On new walls	m ²	206		
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 15</u> <u>TILING</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill <u>INTERNAL WALL TILING</u> 150 x 150mm First grade white glazed tile to door frame height, fixed with adhesive, including coloured grout 1 On plastered walls m ² 10 2 Narrow widths m ² 5 3 Fair exposed cutting and fitting around pipe not exceeding 100mm internal diameter No 5 150 x 150mm First grade white glazed tile, 3 rows high, fixed with adhesive, including coloured grout 4 On walls in isolated panels, splashbacks, etc. m ² 10 <u>INTERNAL FLOOR TILING</u> 220 x 110mm, NCI semi-glazed ceramic tiles, bedded and pointed in 1:4 cement mortar; fixed to screed with 8mm joints in both directions and flush pointed with tinted waterproof jointing compound 5 On floors m ² 63 6 Risers and treads of dwarf wall m 8 7 Cut skirting 100mm high m 127 8 Extra over internal corner tile No 23 9 Extra over for external corner tile No 8 40 x 20mm white glazed ceramic mosaic tiles laid to falls, bedded and pointed in 1:4 cement mortar; fixed to screed with 8mm joints in both directions and flush pointed with white waterproof grouting 10 On shower floors m ² 8 <u>JOINTS, ETC.</u> Expansion joints 11 10mm Wide softboard strip expansion joint through floor tiling and mortar bedding, including raking out and pointing with 10mm high "Thioflex" two part grey polysulphide sealing compound, including backing cord, bond breaker, primer, etc. m 484				
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
12	<u>CORNER PROTECTORS AND EXPANSION JOINTS</u> 9.5 x 6mm x 2.5mm "Genesis PVC Plus" white trim corner protector	m	8		



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 16</u> <u>PLUMBING AND DRAINAGE</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill SUPPLEMENTARY PREAMBLES <u>Descriptions</u> Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete. Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described. <u>uPVC pipes and fittings</u> Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings. Soil, waste and vent pipes and fittings shall be solvent weld jointed. <u>Copper pipes</u> Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings, shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls, or in ground. <u>Fixing of pipes</u> Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc., casting in, building in, or suspending not exceeding 1m below suspension level. <u>Exposed concrete surfaces</u>				
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc., shall be hereby deemed to be finished smooth with plaster. <u>Excavations</u> No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling. Soft rock and "hard rock" shall be as defined in "Earthworks". In terms of the Standard System of Measuring Building Work, where excavation is measured separately for pipe-trenches, chambers, etc., descriptions of such excavations shall be deemed to include additional excavation and backfilling necessary at joints, risk of collapse of sides of excavations and keeping excavations free of water. <u>Laying, backfilling, bedding, etc., of pipes</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions. Where no manufacturers' instructions exist, pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches, etc., shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches). Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described, bedding of rigid pipes shall be class B bedding. <u>Flush pans</u> Flush pans shall be hereby deemed to have straight, or side, outlets and "P", or "S", traps, as necessary. <u>Stainless steel basins, sinks, wash troughs, urinals, etc.</u> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.				
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>Waste unions</u> Descriptions of waste unions shall be hereby deemed to include rubber, or vulcanite, plugs and chains fixed to fittings. <u>General</u> Descriptions of WC pans, slop hoppers, etc., shall be deemed to include joints to soil pipes. Defective work, whether arising out of testing procedures or otherwise, shall be rectified, or removed and replaced, and the whole re-tested, all at the contractor's expense. <u>As-built drawings</u> Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the works the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere). ----- <u>RAINWATER DISPOSAL</u> 2,5mm Welded plate gutters				
1	75 x 75mm Galvanised gutter, including brackets bolted/screwed to concrete roof tiles	m	4		
2	Extra over eaves gutter for stopped end	No	4		
3	Extra over eaves gutter for outlet for 75mm diameter rainwater pipe	No	4		
4	75mm Diameter rainwater down pipes	m	10		
5	Extra over rainwater pipe for bend	No	4		
6	Extra over for shoe	No	4		
	<u>SANITARY FITTINGS (Supply and install)</u>				
	Duracraft steel kitchen units				
7	HSU1050 steel sink/cupboard unit complete with stainless steel sink, complete with waste union, plug, chain and flexi trap	No	2		
8	BU1200/2 steel cupboard unit with grey Irish linen BNG103 work top	No	2		
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	Duravit ceramic				
9	Vero 50cm square WHB (code: 0455500000) on concealed brackets, including plug and chain (Code: 289 40000)	No	5		
10	Katya white washdown pan (Code 0184090000), complete with all fittings, pan connector & adaptor, conceal cistern (Code 38554001) and anti theft stainless steel skate wall plate (Code: 38672 SD0) seat with flap	No	5		
11	Katya concealed inlet urinal (Code 0832320000) complete with water inlet mechanism (Code: 695800000) and concealed urinal trap (Code: 0051120000), fixing set for urinal (Code: 00678131000), "Nova Cosmopolitan" wall plate (Code: 38804000) and housing (Code: 37338000)	No	2		
	Plexicor acrylic				
12	900 x 900 x 150mm "Granada" shower tray with waste outlet bedded in position	No	8		
	<u>TRAPS, ETC</u>				
	uPVC				
	Grohe				
13	32mm Bottle trap (Code 289200000)	No	5		
14	Shower trap	No	8		
	Cobra Watertech				
15	75mm Diameter VA3.113 CP hinged urinal domical grating	No	2		
	<u>TAPS, VALVES, ETC</u>				
	Cobra				
16	Cobra undertile stoptaps Carina No. 128, to showers	No	8		
17	Cobra 126 stoptap, chrome plated	No	5		
18	Cobra 1003/125-28 fullway gate valve	No	5		
	Grohe"				
19	Costa L wall sink mixer (Code: 31191001)	No	1		
20	Euroeco CosmopolitanT self closing shower valve (Code: 362 68 000) including "Tempesta Cosmopolitan" shower head (Code: 275 91 000) with shower arm (Code: 28576)	No	8		
21	Euroco Cosmopolitian self closing metering pillar tap (Code 36266000)	No	5		
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>SANITARY PLUMBING</u>				
	uPVC soil and vent pipes				
22	50mm Diameter pipes	m	53		
23	110mm Diameter pipes	m	13		
	Extra over uPVC soil and vent pipes for fittings				
24	50mm Diameter bends	No	54		
25	50mm diameter 45degree junction	No	3		
26	50mm diameter T	No	2		
27	110mm Diameter bends	No	19		
28	110mm Diameter junctions	No	2		
29	110mm Diameter reducing junction	No	3		
30	110mm Diameter substack with one way vent valve	No	2		
	Sundries				
31	Testing waste pipe system	Item	1		
	<u>WATER SUPPLY</u>				
	Class 0 copper pipes with capillary couplings chased into brickwork including brown paper lagging				
32	15mm Diameter pipes	m	53		
33	22mm Diameter pipes	m	8		
	Class 0 copper pipes with capillary couplings				
34	22mm Diameter pipes	m	100		
35	28mm Diameter pipes	m	22		
36	35mm Diameter pipes	m	10		
	Extra over Class 0 copper pipes for capillary fittings				
37	15mm Diameter fittings	No	45		
38	22mm Diameter fittings	No	450		
39	22mm Diameter brass inline strainer	No	1		
40	28mm Diameter fittings	No	17		
41	35mm Diameter reducing junction	No	1		
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
42	35mm Diameter T	No	2		42
43	35mm Diameter reducing T	No	2		
44	Sundries 15mm Chromium flexi connector with two cap nuts	No	17		
45	Search for, locate, expose and cut into existing copper water supply pipe, insert junction and connect new 22mm diameter copper water supply pipe	No	1		
46	Testing water system	Item	1		
47	Disinfecting water pipe and tank system	Item	1		
<u>ELECTRIC WATER HEATERS AND TANKS</u>					
Kwikhot"					
48	10 Litre under basin geyser	No	1		
49	450 Litre hot water storage tank (Supplied and installed by Solar Heat Exchangers 083 775 9452)	No	1		
Alliance Direct					
50	10kW Heat pump Code ALLW10KW-R410-540V-D (supplied and installed by Solar Heat Exchange 083 775 9452)	No	1		
51	Kent Helix 20mm Water meter	No	1		
<u>FIRE APPLIANCES ETC</u>					
Fire appliances					
52	20mm Hose reel with 30mm rubber hose, chromium plated stopcock, shut off nozzle and wall bracket	No	3		
53	5kg Dry chemical powder fire extinguisher	No	5		
<u>WATER SUPPLIES TO FIRE APPLIANCES</u>					
Galvanised mild steel pipes					
54	25mm Diameter	m	40		
55	50mm Diameter pipes	m	50		
Extra over galvanised mildsteel pipes for steel fittings					
56	25mm Bend	No	4		
57	50mm Bend	No	2		
58	50mm Reducing T	No	2		
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>SUNDRIES</u>				
	Holes, etc., including making good all affected work				
59	Form hole for 50mm diameter pipes through half brick walls	No	8		
60	Form hole for 50mm diameter pipes through one brick walls	No	8		
61	Form hole for 110mm diameter pipes through one brick walls	No	5		
	As-built drawings				
62	Set of "as built" drawings	Item	1		
	<u>BUDGETARY ALLOWANCES</u>				
	Budgetary allowances				
63	Allow a budgetary allowance for statutory fire signage	Item	1		
64	Allow a budgetary allowance for unforeseen plumbing work	Item	1		
65	Allow a budgetary allowance for municipal connections	Item	1		
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 17</u> <u>GLAZING</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill <u>GLAZING TO STEEL WITH PUTTY</u> 6mm Clear float glass				
1	Panes exceeding 0,1m² and not exceeding 0,5m² <u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u> Polished edge mirror mounted 300mm above WHB with 4 off CP dome mirror screws.	m ²	3		
2	500 x 400 mm high	No	5		
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 18</u> <u>PAINTWORK</u> NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill <u>SUPPLEMENTARY PREAMBLES</u> <u>Protection and cleaning</u> The contractor shall provide the tarpaulins, cover-sheets, etc., as may be necessary for the protection of the works during painting. Before painting is commenced, all floors shall be swept, walls dusted and no further sweeping or dusting shall be allowed before all painted surfaces are completely dry. <u>Paint on pipes, gutters, etc.</u> Paint on pipes, gutters, etc., is hereby deemed to include the associated painting of the affected holderbats, hangers, clips, brackets and similar fixings. ----- <u>PAINTWORK TO NEW WORK</u> <u>SMOOTH PLASTERED SURFACES</u> Prepare and apply, prime, undercoat and two coats "Plascon" EPL Acrylic paint 1 On internal walls m ² 950 2 On ceilings m ² 105 <u>SMOOTH CONCRETE SURFACES</u> Prepare and apply, prime, undercoat and two coats "Plascon" EPL Acrylic paint 3 On retaining walls m ² 0 Prepare and apply expoy paint 4 On floors m ² 0 <u>METAL</u> Prepare, spot prime defects in pre-primed surfaces with zinc chromate primer, rub down and apply one coat White Universal Enamel undercoat, allow to dry and finish with two coats White Plascon Velvagio 5 On window frames m ² 6 6 On door frames m ² 11				
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	<u>WOOD</u>				
	Prepare and apply, prime, undercoat in white Universal undercoat, sand down and finish with two coats white Velvagio.				
7	On doors	m ²	39		
8	Roof rafters	m ²	40		
TOTAL CARRIED FORWARD TO SUMMARY					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>BILL NO. 19</u> <u>PROVISIONAL SUMS</u> NOTES: NOTE: The system of measuring building work applicable to the following works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised) NOTE: Tenderers are required to study the Model Preambles for Trades before pricing this Bill NOTE: The tenderer is also advised to read the SANS 1200 DB (1989) Earthworks (Pipe Trenches); SANS 1200 L (1983) Medium Pressure Pipelines and SANS LB (1983) Bedding (Pipes) Standard Specifications when pricing this bill NOTE: The tenderer is also advised to read the SANS 1200 GA (1982) Concrete (Small Works) Standard Specifications when pricing this bill ----- 1. The contractor's attention is drawn specifically to the Principal Building Agreement clause 20.0 (Nominated Subcontractors), clause 21.0 (Selected Subcontractors) and clause 22 (Employer's Direct Contractors) and to the related clauses in Bill No. 1 - Preliminaries. 2. The contractor's attention is drawn also to the definition of attendance on Nominated or Selected Subcontractors and of fuel, power and water for commissioning of mechanical and other specialised installations given in the Preliminaries. 3. Where special attendance requires the provision of hoisting facilities for a subcontractor then the contractor shall:- * Ensure that the capacities of his hoisting equipment are sufficient to deal with the masses and the quantities of the items to be hoisted, * Schedule the times of availability of the hoisting equipment for each N/S subcontractor, * Provide all necessary personnel to operate the hoisting equipment, all to enable the N/S subcontractor to execute the hoisting, or lowering, of his material, etc., using the facilities provided by the contractor. 4. Under no circumstances may any Prime Cost, or Provisional Sum, etc., be extended at an amount lower than the amount given in these bills of quantities.				
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	SUPPLEMENTARY PREAMBLES <u>General</u> Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole, or in part, if not required, without any compensation for loss, or profit, on the said allowances. Prime cost amounts and provisional sums are NET. Prime cost amounts include for delivery to site of all articles concerned. Provisional sums are for material and equipment supplied and installed by appointed firms of specialist N/S subcontractors. <u>Profit</u> Where stated, the contractor may allow for profit if he so requires. <u>General attendance on Nominated/Selected subcontractors</u> Notwithstanding the provisions of the Building Agreement, as included under "Preliminaries", general attendance on N/S Subcontractors shall be deemed to be as follows:- The contractor shall, at his own expense, provide the following general attendance on the Nominated/Selected Subcontractor executing such N/S subcontract works:- 1. Access to the site and places where the N/S subcontract works are to be carried out, including the reasonable use of any temporary personnel hoists erected by the contractor. 2. The provision of water and lighting and single-phase electric power to a position within 50-metres of the place where the N/S subcontract works are to be carried out, but excluding water, fuel, and power for commissioning any installation. 3. The provision of an area for the N/S subcontractor to establish temporary office accommodation and workshops and for the storage of plant and materials for the works on site. 4. The use of erected scaffolding belonging to the contractor, in common with others having the like right, while it remains erected on site. 5. The use of ablution facilities, and the like, where provided on site. 6. The use of the site telephone and facsimile machine, where provided, subject to the payment by the N/S subcontractor for usage thereof.				
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	7. Making good in all trades and cleaning down and removing rubbish and packings as soon as it accumulates. ----- <u>SERVICES</u> ELECTRICAL INSTALLATION				
1	Allow a Provisional Sum of R200 000 for Electrical Supply - Subcontract	Item	1	200 000,00	200 000,00
	MECHANICAL INSTALLATION				
2	Allow a Provisional Sum of R100 000 for Mechanical Installations - Subcontract	Item	1	100 000,00	100 000,00
	<u>SIGNAGE</u> External building signage				
3	Allow a Provisional Sum of R50 000 (Fifty Thousand Rand) for external building signage	Item	1	15 000,00	15 000,00
4	Allow for profit	%		15 000,00	
5	Allow for general attendance	%		15 000,00	
	<u>EXTERNAL WORKS</u> PERIMETER WALL				
6	Allow a Provisional Sum of R10 000 for the repair of palisade perimeter wall	Item	1	10 000,00	10 000,00
7	Allow for profit	%		10 000,00	
8	Allow for general attendance	%		10 000,00	
9	Cochrane ClearVu galvanised metal fencing	m			
	WEIGHBRIDGES				
10	Allow a Provisional Sum of R350 000 (Three Hundred and Fifty Thousand Rand) for weighbridges	Item	1	350 000,00	350 000,00
11	Allow for profit	%		350 000,00	
12	Allow for general attendance	%		350 000,00	
TOTAL CARRIED FORWARD					



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					
	EQUIPMENT				
	Allow a Provisional Sum for:				
13	Skip Bins	Item	6	30 000,00	180 000,00
14	Generator	Item	1	100 000,00	100 000,00
15	Furniture and Fittings	Item	1	100 000,00	100 000,00
16	Platform Scale	Item	1	30 000,00	30 000,00
17	Allow for profit (on Items 13 to 16 above)	%		410 000,00	
18	Allow for general attendance (on Items 13 to 16 above)	%		410 000,00	
	<u>BUDGETARY ALLOWANCES</u>				
	Builders works in connection with services				
24	Allow a budgetary allowance of R20 000 (Twenty Thousand Rand) for builders works in connection with services	Item	1	20 000,00	20 000,00
TOTAL CARRIED FORWARD TO SUMMARY					



BADPLAAS WASTE TRANSFER STATION

SUMMARY

SANS 1200 REF	DESCRIPTION	AMOUNT
A	PART 1: GENERAL	
	TOTAL PART 1 CARRIED TO GRAND SUMMARY	
	<u>PART 2: SEWER RETICULATION</u>	
DB	EARTHWORKS (PIPE TRENCHES)	
LB	BEDDING (PIPES)	
LD	SEWERS	
	TOTAL PART 2 CARRIED TO GRAND SUMMARY	
	<u>PART 3: WATER SUPPLY</u>	
DB	EARTHWORKS (PIPE TRENCHES)	
L	MEDIUM-PRESSURE PIPELINES	
LB	BEDDING (PIPES)	
	TOTAL PART 3 CARRIED TO GRAND SUMMARY	
	<u>PART 4: ROADS & EARTHWORKS</u>	
1700	CLEARING AND GRUBBING	
2100	DRAINS	
2200	PREFABRICATED CULVERTS	
2300	CONCRETE CHANNELLING	
3100	BORROW MATERIALS	
3300	MASS EARTHWORK	
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL	
3500	STABILIZATION	
3600	PRIME COAT	
5100	PITCHING, STONWORK AND PROTECTION AGAINST EROSION	
5700	ROAD MARKINGS	
5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	
7300	CONCRETE BLOCK PAVING FOR ROADS	-
	TOTAL PART 4 CARRIED TO GRAND SUMMARY	



	<u>PART 5: BUILDINGS</u>	
BILL NO. 2	EARTHWORKS (PROVISIONAL)	
BILL NO. 3	CONCRETE, FORMWORK AND REINFORCEMENT	
BILL NO. 4	PRECAST CONCRETE	
BILL NO. 5	MASONRY	
BILL NO. 6	WATERPROOFING	
BILL NO. 7	ROOF COVERINGS	
BILL NO. 8	CARPENTRY AND JOINERY	
BILL NO. 9	CEILINGS, PARTITIONS AND ACCESS FLOORING	
BILL NO. 10	FLOOR COVERINGS, WALL LININGS, ETC.	
BILL NO. 11	IRONMONGERY	
BILL NO. 12	STRUCTURAL STEELWORK	
BILL NO. 13	METALWORK	
BILL NO. 14	PLASTERING	
BILL NO. 15	TILING	
BILL NO. 16	PLUMBING AND DRAINAGE	
BILL NO. 17	GLAZING	
BILL NO. 18	PAINTWORK	
BILL NO. 19	PROVISIONAL SUMS	
	TOTAL PART 5 CARRIED TO GRAND SUMMARY	



GRAND SUMMARY	
PART 1: GENERAL PART 2: SEWER RETICULATION PART 3: WATER SUPPLY AND STORAGE PART 4: ROADS & EARTHWORKS PART 5: BUILDINGS SUBTOTAL A ADD 10% CONTIGENCIES SUBTOTAL B ADD 15% VALUE ADDED TAX CONSTRUCTION AMOUNT/ TENDER AMOUNT	



PART C3: SCOPE OF WORK

C3.1 Description of the Works

C3.1.1 General

This section specifies and describes the supplies, services and Employer's Agent and construction works which are to be provided and any other requirements and constraints relating to the manner in which the contract work is to be performed.

C3.1.2 Status

Should any requirement or provision in the parts of the Scope of Work conflict with any requirement of any Specification(s) forming part of this contract or any drawings, the order of precedence, unless otherwise specified, is:

1. Contract Drawings
2. Scope of Work (which includes the Project Specifications)
3. Standard Specifications
4. Bill of Quantities

C3.1.3 Employers Objectives

The primary objective of the project is to refurbish infrastructure within the Chief Albert Luthuli local Municipality and in this case the objective is to construct a waste transfer station at Badplaas. Optimum utilization shall be made of the resources within the local community and that these resources shall be improved and enhanced through their participation in the execution of the works. The project to be implemented has taken into cognizance the prescripts of EPWP and local SMMEs.

C3.1.4 Overview of the Works

The work to be carried out under this contract includes the supply of material and labour for the successful completion of the project within the constraints of time, cost and quality. The project entails the construction of a Badplaas Waste Transfer Station as opposed to Badplaas Landfill Site.

The Contractor's obligations shall also include strict compliance with any Environmental requirements and/or reports deemed to form part of this Contract as well as any Occupational Health and Safety requirements. This description of the works is not necessarily complete and shall not limit the work to be carried out by the Contractor under the Contract. Approximate quantities of each type of work are given in the Schedule of Quantities.

C3.1.5 Extent of the Works

The scope of the project entails the construction of a Badplaas Waste Transfer Station as opposed to Badplaas Landfill Site. The main scope of works for the Construction of the Badplaas Landfill Site is as follows:

a) Civil Engineering Works

The scope of services for the civil engineering component of the project is detailed hereunder:

- Provision of water reticulation servicing the proposed development at an acceptable level of service.
- Installation and equipping of a borehole and elevated storage tanks.
- Sewer reticulation and connection to the existing outfall.
- Site access roads, including paved parking and stormwater management system.
- Fencing, and,
- General platforms and landscaping

b) Structural Engineering Works

The scope for structural engineering services entails the design of the following:

- Foundations and ground preparations, as recommended by the Geotechnical Investigations
- Retaining wall designs
- Design of steel structures, including the Transfer shed and other structures.
- Roof structures – composed of duo pitch steel trusses for the Transfer Shed and portal frames for the Recycling Building.
- Other structural elements including concrete surface beds, slabs, and beams.

c) Architectural –

The scope for architectural services entails the following:

- Formalising the engineering drawings to meet the architectural standard.
- Weighbridge Control Room
- Recycling Facility
- Ablution facilities
- Propose a guardhouse drawing and formalise it
- To formalize and detail the site development plan accordingly



- Show the plumbing and drainage works
- d) Electrical and Mechanical Engineering Works

The scope of the electrical and mechanical works includes the following:

- Site works including low voltage and medium voltage
- Power, lighting and lightning protection works
- Cabling
- Electrical and Electronic installation, (Stand-by power, External lighting, Internal lighting, Small power, CCTV, Access control, Lightning protection system and solar installation)
- High mast light
- Fire protection
- Heating and ventilation systems
- Hot water generation
- Cold water supply

C3.1.6 Location of the Works

The proposed project area is located approximately 1.5 kilometres away from Road R38, east of Badplaas Resort. It is located along Road R541 (D225) provincial road linking Badplaas to Elukwatini. Access to the site will be off the R541 road. The geographical coordinates of the site are Longitude: (E): 30°35'22.70" and Latitude (S): 25°57'38.29" as per the general layout drawing.



Figure 1 Project Area



C3.1.7 Temporary Works.

The Contractor shall, as relevant, provide temporary works for the successful completion of the project, including the following,

- Safety and security of the Contractor's temporary works shall be at the Contractor's discretion, but always in accordance with stipulated Occupational Health and Safety requirements
- Temporary covering of Employer's equipment from dust during construction
- Temporary protection against rain
- Temporary accesses

C3.1.8 General Information

Drawings:

The reduced drawings contained in **Part C4.2** that form part of the tender document shall be used for tender purposes only. Further drawings are to be provided on an on-going basis by the Employer's Agent.

Any information in the possession of the contractor, which the resident Employer's Agent requires to complete the as-built drawings, shall be supplied to the Employer's Agent before a certificate of completion will be issued.

Only figured dimensions shall be used and drawings shall not be scaled unless so instructed by the Employer's Agent. The Employer's Agent will supply all figured dimensions omitted from the drawings.

Power, Water Supply and Other Services:

The contractor shall make his own arrangements concerning the supply of electrical power and all other services. No direct payment will be made for the provision of electrical and other services. The cost of providing these services will be deemed to be included in the rates and amounts tendered for the various items of work for which these services are required.

Contractor's Camp Site and Security:

The contractor shall make his own arrangements regarding the establishment of a camp site and housing for his construction personnel and all regulations stipulated by the local authority shall be adhered to.

It is anticipated that the contractor's choice of a camp site will be influenced by the availability of telephone and electrical connections as well as the supply of potable water.

Provision is made in these specifications for the erection of a security fence around the site offices. The contractor shall be responsible for the security of his personnel and constructional plant on and around the site of the works and for the security of his camp, and the employer will consider no claims in this regard.

C3.1.9 Additional Requirements for Construction Activities:

Programme Requirements for Construction Activities:

The contractor shall programme his activities to be suitable in terms of his resources to complete the contract inside the stipulated time period.

Construction in Confined Areas:

It may be necessary for the contractor to work in confined areas. In certain areas the width of the fill material and pavement layers may reduce to zero and the working space may be confined. The method of construction in these confined areas depends on the contractor's construction plant. However, the contractor must note that measurement and payment will be in accordance with the specified cross-sections and dimensions, irrespective of the method used to achieve these cross-sections and dimensions, and that the rates and amounts tendered will be deemed to include full compensation for any special equipment or construction methods or for any difficulty encountered in working in confined areas and narrow widths, and at or around obstructions, and that no extra payment will be made nor will any claim for payment be considered on account of these difficulties.



C3.1.10 Labour Regulations:

Payment for the labour-intensive component of the works:

Payment for works identified in clause 2.3 “the Extent of the Project” in the Project Specifications as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the scope of work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.

Applicable labour laws:

Sectorial determination 2: Civil Engineering Sector

C3.2 Employer’s Agent

C3.2.1 Design

The **Employer** is responsible for the design of the permanent Works as reflected in these Contract Documents unless otherwise stated.

The **Contractor** is responsible for the design of the temporary Works and their compatibility with the permanent Works.

The **Contractor** shall supply all details necessary to assist the Employer’s Agent in the compilation of the as-built drawings.

C3.2.2 Employer’s Design

- Detail description of Works
- General Works

C3.2.3 Contractor’s Design

Where contractor is to supply the design of designated parts of the permanent Works or temporary Works he shall supply full working drawings supported by a professional Employer’s Agent’s design certificate.

C3.2.4 Design procedures

All designs and modifications thereto shall be communicated in writing and the contractor and Employer’s Agent shall maintain master lists to record and track all transactions.

C3.2.2 Drawings

Drawings are included in Section C4: Site Information of the tender document. The drawings are issued for tender purposes only. Construction drawings will be issued to the successful tenderer, prior to commencement of construction.



C3.3 Construction

C3.3.1 Works Specifications

The "Special Condition of Contract" to be read in conjunction with the "General Conditions of Contract for Civil Employer's Agent Works (2015).

C3.3.3 Applicable SANS 2001 Standards

The following SANS specifications are also referred to in this document and the Contractor is advised to obtain them from Standards South Africa (a division of SANS) in Malelane.

SANS 10396: 2003:	Implementing Preferential Construction Procurement Policies using Targeted Procurement Procedures
SANS 1914-1 (2002):	Targeted Construction Procurement
SANS 1921-1 (2004):	Construction and Management Requirements for Works Contracts Part 1: General Employer's Agent and Construction Works
SANS 1921-6 (2004):	Construction and Management Requirements for Works Contracts Part 6: HIV / AIDS Awareness

The standardized specifications (SANS 1200) must be read in conjunction with the new SANS 1921 family of standards. In case of any discrepancy or conflict between the two, the SANS specification shall take precedence and shall govern.

Refer also to the Preface on interim situation until full suite of SANS Series of Specifications is available, on the first page of the Project Specification.

The term "project specifications" appearing in any of the SANS 1200 standardized specifications is deemed to be equivalent to the term "scope of work" in SANS Specifications.



C3.3.4 Existing Residential Areas

Electricity and water supply interruptions in existing residential areas shall be kept to a minimum. The Employer's Agent's approval shall be obtained prior to such interruptions and residents shall be notified in writing at least 24 hours but not more than 48 hours in advance. Supplies shall be normalised by 16:00 on the same day.

C3.3.5 Employment of Local Labour

It is the intention that this Contract should make maximum use of the local labour force that is presently under-employed. To this end the Contractor shall limit the utilisation on the Contract of non-local employees to that of key personnel only and to employ and train local labour to the extent necessary for the execution and completion of this Contract.

The Contractor shall fill in the form entitled Key Personnel in the Forms to be completed by the Bidder. The data stated on the above-mentioned form will be strictly monitored during the Contract period and any deviations therefrom shall be subject to the prior approval of the Employer's Agent, which approval shall not be unreasonably withheld.

The employment of casual labour will be done in co-operation with community leaders and local structures. The bidder shall ensure that all remuneration paid to employees is in line with the relevant sectorial determination in terms of the Basic Conditions of Employment Act, No 75 of 1997, as determined by the Department of Labour.

C3.3.6 Existing Services

Known services:

All known service providers have services within the area of construction.

Use of detection equipment for the location of underground services:

Services must be detected using hand excavation and with the use of metal detectors.

Damage to services:

The contractor is responsible for damages to all services known and unknown. The contractor must, before commencing with any earthworks, ensure that he is aware of all the existing services are, if any. These services are to be properly exposed and protected during the period of construction. The client reserves the right to, should there be any claims with regard to services damaged by the contractor through negligence.

Reinstatement of services and structures damaged during construction:

The contractor shall be responsible for the reinstatement of services and structures damaged during construction.

Fines

A fine for damaging existing services will be implemented at R10 000 per damaged service.



C3.3.2 Applicable Standardized Specifications

The following SABS 2001 Standardized Specifications for civil engineering construction are applicable:

SANS 2001:	General
SANS 2001-CM1:	Masonry walling
SANS 2001-CT2:	Structural timberwork – roofing
SANS 2001-EM1:	Cement plaster
SANS 2001 CG1:	Glazing
SANS 1700:	Fasteners
SANS 10305:	Painting of Buildings
SANS 10177/717:	Ceilings
SANS 1449:	Ceramic Tiles
SANS 2001–DP1:	Earthworks for buried pipelines.
SANS 2001–DP2:	Below ground medium pressure pipelines
SANS 2001–DP3/4:	Sewers
SANS 2001–DP5:	Stormwater drainage
SANS 10142:	Low-voltage installations

The term "project specification" must be replaced by "scope of works" wherever it appears in these standardized specifications.

C3.4 Management of the Works

C3.4.1 Management Meetings

The following meetings will be required as minimum for the management of the contract.

- Monthly client site meeting (using standard agenda for management control).
- Technical meetings as required for each phase of the work.
- Monthly safety meetings in terms of the OHS requirements.
- Weekly progress meetings

C3.4.2 Quality Control

The Contractor is to supply details of the quality plan and procedures. These shall include:

- Accommodation of traffic.
- Inspection and test plans.
- Approval process.
- Hold-points.



C3.5 Project Specifications Relating to Standard Specifications

This part of the project specifications deals with matters relating to the standard specifications. Where reference is made in the standard specifications to the project specifications this part shall also contain the relevant information e.g. the requirements where a choice of materials or construction methods are provided for the standard specifications.

In certain clauses the standard specifications allow a choice to be specified in the project specifications between alternative materials or methods of construction and for additional requirements to be specified to suit a particular contract. Details of such alternatives or additional requirements applicable to this contract are contained in this part of the project specifications. It also contains some additional specifications and amendments of the standard specifications required for this particular contract.

The number of each clause and each payment item in this part of the project specifications consists of the prefix B followed by a number corresponding to the number of the relevant clause or payment item in the standard specifications. The number of a new clause or a new payment item, which does not form part of a clause or a payment item in the standard specifications and is included here, is also prefixed by B followed by a new number. The new numbers follow on the last clause or item number used in the relevant section of the standard specifications.

Clauses and pay items referring to labour intensive methods are prefixed by L in the project specifications.

Clauses and pay items referring to emerging contractors are prefixed by E in the project specifications.



C3.6 Occupational Health and Safety Specifications

OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION

This specification shall be used in conjunction with all other applicable safety specifications, legislation and regulations in force at the time of the contract. Where unique site specifications are in force, those site specifications shall take precedence over this Specification.



CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
1.0	SCOPE	187
2.0	INTERPRETATIONS	187
3.0	GENERAL	187
	3.1 Employer	187
	3.2 Contractor	187
4.0	GENERAL REQUIREMENTS	188
	4.1 Contractor's Construction Safety Officer	188
	4.2 Log Books	188
	4.3 First Aid	189
	4.4 Risk Assessment and Safety Policy	189
	4.5 Danger Areas	190
	4.6 Hazard Notices	190
	4.7 Personal Protective Clothing	190
	4.8 Road Traffic Ordinance/Transportation Act	190
	4.9 Overhead Power lines	190
	4.10 Machine Guarding	191
	4.11 Concrete Mixing Equipment	191
	4.12 Ladders	191
	4.13 Scaffolding Framework	191
5.0	SPECIAL REQUIREMENTS	191
	5.1 Excavation/Shoring	191
	5.2 Formwork and Support Work	191
	5.3 Prevention of Uncontrolled Collapse	192
	5.4 Safe Working Loads	192
	5.5 Electrical Equipment and Procedures Used by the Contractor	192
	5.6 Commissioning Safety Precautions	192
	5.7 Toxic Materials	192
	5.8 Hazardous Chemicals and Materials	192
	5.9 Indemnity of Employer and his Agent	192

ADDENDUMS:

- A)** Pro-Forma Agreement In Terms Of Occupational Health And Safety Act 1993
B) Notification of Construction Work



1. SCOPE

This specification details the health and safety requirement associated with the Works.

2. INTERPRETATIONS

Occupational Health and Safety Act, Act 85 of 1993 shall apply to this Contract. The Construction Regulations promulgated on 18 July 2003 and incorporated into the said Act by Government Notice R 1010, published in Government Gazette 25207 apply to any person involved in construction work. These regulations are hereinafter referred to as "the Construction Regulations" and the said Act as "the Act".

Construction work is defined as: Any work in connection with: -

- a) the erection, maintenance, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure;
- b) the installation, erection, dismantling or maintenance of a fixed plant where such work includes the risk of a person falling;
- c) the construction, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system or any similar civil engineering structure; or
- d) the moving of earth, clearing of land, the making of an excavation, piling, or any similar type of work.

3. GENERAL

3.1 Employer

3.1.1 The Employer will appoint the Contractor in writing for the execution of the works.

3.1.2 The Employer will take reasonable steps to ensure that the Contractor's health and safety plan is implemented and maintained. The steps taken will include periodic audits at intervals of at least once every month.

3.1.3 The Employer or his Agent will stop the Contractor from executing construction work should the Contractor at any stage in the execution of the works :

- a) fail to implement or maintain his health and safety plan;
- b) execute construction work which is not in accordance with his health and safety plan; or
- c) act in any way which may pose a threat to the health and safety of persons.

3.2 Contractor

3.2.1 The Contractor shall accept the appointment under the terms and Conditions of Contract. The Contractor shall sign and agree to those terms and conditions and shall, before commencing work, notify the Department of Labour of the intended construction work in terms of Regulation 3 of the Construction Regulations. ADDENDUM B of this Specification contains a "Notification of Construction Work" form. The Contractor shall submit the notification in writing prior to commencement of work.

3.2.2 The Contractor shall ensure that he is fully conversant with the requirements of this Specification. The specification is not intended to supersede the Act nor the Construction Regulations. Those sections of the Act and the Construction Regulations which apply to the scope of work to be performed by the Contractor in terms of this contract continue to be a legal requirement of the Contractor.

3.2.3 The Contractor shall provide and demonstrate to the Employer a suitable and sufficiently documented health and safety plan based on this Specification, the Act and the Construction Regulations, which shall be applied from the date of commencement of and for the duration of execution of the works.

3.2.4 The Contractor shall provide proof of his registration and good standing with the Compensation Fund or with a licensed compensation insurer prior to commencement with the works.



-
- 3.2.5 The Contractor shall, in submitting his tender, demonstrate that he has made provision for the cost of compliance with the specified health and safety requirements, the Act and Construction Regulations.
- 3.2.6 The Contractor shall consistently demonstrate his competence and adequacy of resources to perform the duties imposed on the Contractor in terms of this Specification, the Act and the Construction Regulations.
- 3.2.7 The Contractor shall ensure that a copy of his health and safety plan is available on request to the Employer, an Inspector, Employee or Sub-contractor.
- 3.2.8 The Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the provisions of this Specification, the Act and the Construction Regulations, is opened and kept on site and made available to the Employer or Inspector upon request. Upon completion of the works, the Contractor shall hand over a consolidated health and safety file to the Employer.
- 3.2.9 The Contractor shall, throughout execution of the contract, ensure that all conditions imposed on his Sub-contractors in terms of the Act and the Construction Regulations are complied with as if they were the Contractor.

4. GENERAL REQUIREMENTS

4.1 Contractor's Construction Safety Officer

Before commencing work, the Contractor shall designate a competent construction safety officer (CSO) who shall be acceptable to the representative / agent to represent and act for the Contractor. The Contractor shall inform the representative / agent in writing of the name and address of the Contractor's CSO and of any subsequent changes in the name and address of the officer, together with the scope and limitations of the CSO's authority to act for the Contractor. The Contractor's CSO shall make available to the Employer a telephone number at which the CSO can be contacted at any time in the event of an emergency involving any of the Contractor's employees, or other persons at the Works.

4.2 Log Books

The Contractor shall keep the following log books and shall make them available to the Representative/Agent on request:

- 4.2.1 A record of the names and addresses of its employees who are registered as trained fire-fighting personnel and who are available on site for fire-fighting duties.
- 4.2.2 A record of the weekly inspection of first aid boxes.
- 4.2.3 A record of the weekly inspections of ladders
- 4.2.4 A record of the weekly inspections of fire-fighting equipment.
- 4.2.5 A record of the monthly inspections of welding machines.
- 4.2.6 A record of the monthly inspections of oxy-acetylene equipment.
- 4.2.7 A record of the weekly inspections of scaffolding structures.
- 4.2.8 A record of the monthly inspections of builder's hoists.
- 4.2.9 A record of the monthly inspections of mobile and tower cranes.
- 4.2.10 A record of the monthly inspections of lifting gear.
- 4.2.11 A record of the inspections of electrical equipment.
- 4.2.12 A record of the weekly inspections of plant for gauging and mixing of materials for concrete.

4.3 First Aid

4.3.1 Safety Notice Board

The Contractor shall provide a safety notice board where safety notices, site regulations concerning safe working practices and information on the nearest first aid station, ambulance, doctor and telephone



numbers of the CSO and other relevant persons can be conspicuously displayed to its entire staff. The size of the notice board shall be at least 600mm x 800mm.

4.3.2 First Aid Equipment

The Contractor shall provide for its employees a stretcher for emergencies and an approved first aid box. The first aid box shall be checked weekly by a responsible person, who shall be appointed by the Contractor, and a record shall be kept of the contents. Any deficient medical supplies shall be promptly replenished by the Contractor.

4.3.3 Reporting of incidents and / or injuries

All incidents in respect of damage to Works, property or machinery, or injury to persons, shall be reported by the Contractor's Safety Officer or Site Representative to the Representative / agent by the quickest means possible.

A mandatory incident report form, containing full details of the incident, shall be completed and submitted to the representative/ agent within twenty four (24) hours of the occurrence of the incident.

The representative/ agent shall have the right to make all or any enquiries as to the cause and result of any such incident. The Contractor shall provide the representative / agent with full facilities for carrying out such enquiries.

4.4 Risk Assessment and Safety Policy

Before commencing work the Contractor shall cause a risk assessment to be performed by a competent person appointed in writing and this shall form part of the health and safety plan.

A copy of the risk assessment shall be available on site at all times for inspection.

The Contractor shall at all times carry out the Works in a manner to avoid the risk of bodily harm to persons or risk of damage to any property. The Contractor shall take all precautions, which are necessary and adequate to eliminate any conditions which contribute to the risk of injury to persons or damage to property. The Contractor shall continually inspect all work, materials and equipment to discover and determine any such conditions and shall be solely responsible for the discovery, determination and elimination of such conditions.

During the period of this Contract, the Contractor shall be responsible for the safe storage of all materials and equipment required for execution of the Contract, and for disposal of all non-usable waste material in an orderly manner.

All materials, whether stored on the construction site or within the Contractor's designated area, shall be stored neatly and safely to prevent possible injury to any personnel. The material shall be stored to facilitate safe access to, and removal of the material from the storage area.

Any flammable material, such as paint, diesel fuel and oil, shall be stored in lockable non-combustible structures, which shall be clearly marked to indicate the hazardous nature of the materials stored within. The flammable materials stores shall be located in safe areas away from hazardous surroundings and adequate and suitable fire-fighting equipment shall be provided within easy reach of the materials stores.

4.5 Danger Areas

All danger areas shall be demarcated by the Contractor with appropriate tape and hazard notices to prevent unauthorized persons entering the danger area.



4.6 Hazard Notices

The Contractor shall display hazard notices in all areas identified in the risk assessment as potentially hazardous.

4.7 Personal Protective Clothing

The Contractor shall provide the necessary personal protective clothing for his employees in hazardous areas, appropriate to the nature of the hazard identified in the risk assessment.

4.7.1 Hard Hats

All employees of the Contractor shall wear hard hats in areas where appropriate hazard notices are displayed. The representative/ agent shall have the right to ban certain colours if they are similar to the employer's identifying colours. Hard hats shall not be painted or otherwise defaced.

4.7.2 Eye Protection

Suitable eye protection shall be worn in areas where appropriate hazard notices are displayed, or when grinding, chipping, breaking, drilling, arc-welding, cutting with oxyacetylene equipment of similar activities are taking place.

4.7.3 Hearing Protection

Suitable hearing protection shall be worn in areas where appropriate hazard notices are displayed.

4.7.4 Foot Wear

All employees of the Contractor shall wear undamaged, laced-up safety boots or safety shoes, suitable for the intended purpose, in prescribed areas where appropriate hazard notices are displayed.

4.7.5 Gloves

All employees of the Contractor's shall wear suitable protective gloves in areas where appropriate hazard notices are displayed or when handling hot or hazardous materials or chemicals.

4.7.6 Clothing

All employees of the Contractor shall wear suitable protective clothing when working in proximity of machinery, power tools, hazardous materials or chemicals.

4.8 Road Traffic Ordinance / Transportation Act

4.8.1 The Contractor shall ensure that drivers of motor vehicles are in possession of a driver's license, valid for the class of vehicle which they are required to drive and shall produce the license on request.

4.8.2 The Contractor shall not permit any driver to be in control of a vehicle at the Works while under the influence of alcohol or drugs.

4.8.3 All vehicles of the Contractor shall display a name board bearing the Contractor's name. Hired vehicles shall bear an identifying sticker.

4.9 Overhead Power lines

Regulations of the Electricity Supply Authority in connection with prohibition of operations in the vicinity of overhead power lines shall be observed by the Contractor at all times.

4.10 Machine Guarding

All power tools and machinery driven by belts, gears, ropes, chains, couplings and similar drives shall be adequately guarded. The Contractor shall prohibit the use of any equipment with a damaged, missing or inadequate guard.

4.11 Concrete Mixing Equipment

No Contractor shall use or cause to be used any plant for the storage, gauging and mixing of materials for concrete unless:

- a) The aggregates of different nominal size are separately stored in such a way that segregation, intermixing of different materials and contamination by foreign matter is prevented.
- b) The storage area shall be protected from unauthorized entry by an adequate barrier. A safe and tidy



approach shall be maintained to the aggregate storage area.

- c) The Contractor shall appoint operators skilled in the operation of the plant.
- d) On a weekly basis, the plant shall be inspected by a competent person. The inspections shall include a check of the calibration of all the measuring devices and shall be recorded in a logbook, which shall be made available to the Representative/Agent on request.

4.12 Ladders

4.12.1 Every ladder shall be:

- a) Of good construction, sound material and adequate strength and suitable to the purpose for which it is used (e.g. electricians shall use suitable insulated ladders)
- b) Fitted with non-skid devices at the bottom of the stiles or with hooks or similar devices at the tops of the stiles.

4.12.2 Except for extension ladders, no ladder shall be used which is longer than 4,5m and no ladder shall have its reach extended by tying together two or more ladders.

4.12.3 All ladders shall be inspected weekly and a log shall be kept of the inspections.

4.13 Scaffold Framework

4.13.1 Scaffold standards shall be firmly supported and secured against displacement and shall be kept vertical.

4.13.2 No Contractor shall use, or cause to be used, any scaffold unless it is inspected by a competent person at least once a week and after inclement weather.

5. SPECIAL REQUIREMENTS

5.1 Excavation/Shoring

5.1.1 The Contractor shall ensure that all excavation work is carried out under the supervision of a competent person who has been appointed in writing.

5.1.2 The face of an excavation shall not be undercut.

5.1.3 All excavations, irrespective of depth, shall be adequately screened off with barrier tape or some other suitable means of warning persons of a hazardous area. Where the depth of the excavation exceeds 2 m, a wooden or steel barrier shall also be erected around the excavation, particularly at the end of the working shift and at the start of weekends and holidays to prevent persons from falling into the excavations.

5.1.4 No construction materials shall be allowed to fall into an excavation. A safe and tidy approach shall be maintained around all excavations.

5.1.5 Adequate shoring, according to the recommendations of SABS 1200, Section D, 1988, shall be provided in the excavation by the Contractor when necessary. The shoring shall be approved by the Representative/Agent before excavation work continues.

5.2 Formwork and Support Work

The Contractor shall ensure that:

- a) All formwork and support work operations are carried out under the supervision of a competent person who has been appointed by the Contractor in writing for that purpose.
- b) all formwork and support work structures are adequately designed, erected, supported, braced and maintained so that they will be capable of supporting all anticipated vertical and lateral loads that may be applied to them and also that no loads are imposed onto the structure that the structure is not designed to withstand;
- c) the foundation conditions are and remain suitable to withstand the load caused by the formwork and support work structure and any imposed loads such that the formwork and support work structure are stable;
- d) all formwork and support work structures are inspected by a competent person, who has been appointed



by the Contractor in writing for that purpose, immediately before, during and after, the placement of concrete of any other imposed load and thereafter on a daily basis until the formwork and support work structure has been removed and the results have been recorded in a register and made available on the site of the Works; and

- e) upon casting concrete, the support work or formwork structure should be left in place until the concrete has acquired sufficient strength to support safely, not only its own load, but also any imposed loads, and not removed until authorization has been given by the competent person contemplated in sub-paragraph (a).

5.3 Prevention of Uncontrolled Collapse

The Contractor shall ensure that :-

- a) All reasonably practicable steps are taken to prevent the uncontrolled collapse of any new or existing structure or any part thereof, which may become unstable or is in a temporary state of weakness or instability due to the carrying of construction work; and
- b) no structure or part of a structure is loaded in a manner that would render it unsafe.

5.4 Safe Working Loads

The Contractor shall ensure that:-

- a) the safe working loads of hoists, load- bearing beams and cranes are prominently displayed at all times,
- b) the safe working loads are not exceeded under any circumstances,
- c) all lifting gear is marked with a unique identity number and recorded in a register.

5.5 Electrical Equipment and Procedures Used by the Contractor

5.5.1 All electrical equipment shall be regularly inspected by a qualified electrician, who shall be appointed by the Contractor, and the inspections shall be logged. The frequency of inspections shall be determined by the Representative/agent. A record of the inspections shall be kept and shall be made available to the Representative/agent on request.

5.5.2 The Contractor shall ensure that all his electrical equipment conforms to operational and safety requirements.

5.5.3 All earth leakage units shall be tested at intervals of not more than one month and signed for by a qualified electrician.

5.6 Commissioning Safety Precautions

The Contractor shall ensure that wherever repairs, adjustments or any other work are undertaken on any plant or machinery, the power supply is switched off, disconnected or the plant/ machinery disengaged until the work or repairs have been completed.

5.7 Toxic Materials

The Contractor shall exercise all necessary care in the handling of toxic compounds and shall be able to identify the major chemical components in the event of medical treatment being required.

5.8 Hazardous Chemicals and Materials

- a) The Contractor shall provide suitable adequate protective equipment when working in an area where hazardous chemicals and materials are being used.
- b) The Contractor shall ensure that its employees have familiarized themselves with the hazardous material data sheets applicable to the specific site as well as the location of the firefighting equipment, safety showers/ baths and other washing facilities, prior to the commencement of work.

5.9 Indemnity of Employer and his Agents

- a) The ADDENDUM to this Contract Document contain a "Mandatory Form of Authority and Agreement in terms of Section 37 (2) of the Occupational Health and Safety Act, No,85 of 1993 which agreement shall be entire into and duly signed by both the Employer and Contractor prior to commencement with work. A copy of the signed



agreement shall be included in the Contractor's health and safety plan.

- b) Any acceptance, approval, check, certificate, consent, examination, inspection, instruction, notice, observation, proposal, request, test or similar act by either the Employer, any of his agents or the representative /agent including lack of disapproval shall not relieve the Contractor from any responsibility he has under the Act and the Construction Regulations, including responsibility for errors, omissions, discrepancies and non- compliance.



ADDENDUM "A"

PRO-FORMA AGREEMENT IN TERMS OF OCCUPATIONAL HEALTH AND SAFETY ACT 1993

PRO-FORMA AGREEMENT IN TERMS OF

OCCUPATIONAL HEALTH AND SAFETY ACT 1993 – SECTION 37 (2)

NEW CONSTRUCTION SAFETY REGULATIONS

The above-mentioned regulations were promulgated in the Govt. Gazette on Friday, 18 July 2003 under the Occupational Health & Safety Act (85 of 1993) and are now in force.

The Employer and the Contractor hereby agree, in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act 1993 (Act 85 of 1993, hereinafter referred to as the Act), that the following arrangements and procedures shall apply between them to ensure compliance by the Contractor with the provisions of the Act, namely:

- (a) The Contractor undertakes to acquaint the appropriate officials and employees of the Contractor with all the relevant provisions of the Act and the regulations promulgated in terms of the Act, and the Employer's Health and Safety Specifications included in the contract documents.
- (b) The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and Regulations and the Employer's Health and Safety Specifications included in the contract documents will be complied with in all respects.
- (c) In relation to any work or activity performed by the Contractor, his workmen or any other person for whose acts or omissions the Contractor is responsible in terms of the Contract, the Contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and Regulations and expressly absolves the Employer from itself being obliged to comply with any of the aforesaid duties, obligations and prohibitions.
- (d) The Contractor agrees that any duly authorised officials of the Employer shall be entitled, although not obliged, to take such steps as may be necessary to ensure that the Contractor has complied with his undertakings as set out more fully in paragraphs (a) and (b) above, which steps may include, but will not be limited to, the right to inspect any appropriate site or premises occupied by the Contractor, or to inspect any appropriate records held by the Contractor.
- (e) The Contractor shall be obliged to report forthwith in writing to the Representative/Agent full details of any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the Act and Regulations, pursuant to work performed in terms of this Contract.
- (f) Forward "safety meeting" minutes to the representative/Agent.

For the Employer: _____

Date: _____

Witnesses: 1) : _____

2) : _____

For the Contractor: _____

Date: _____

Witnesses: 1) : _____

2) : _____



ADDENDUM “B”

NOTIFICATION OF CONSTRUCTION WORK



NOTIFICATION OF CONSTRUCTION WORK
(Regulation 3 of the Construction Regulations, 2003)

1. CONTRACTOR

1.1 Name and postal address of Contractor :

1.2 Name and telephone number of Contractor's contact person :

1.3 Contractor's compensation registration number :

1.4 Name and telephone number of Contractor's Construction Supervisor :

1.5 Physical address of the construction site or site office:

1.5 Estimated number of persons on the construction site :

1.6 Estimated number of Subcontractors on the construction site accountable to the Contractor :

2. EMPLOYER

2.1 Name and postal address of Employer :

2.2 Name and telephone number of Employer's Principal

Agent: _____

3. DESIGN CONSULTANTS

3.1 Name and postal address of design consultants:

3.1.1 Construction project managers:

3.1.2 Architects:



3.1.3 Structural engineer :

3.1.4 Electrical engineer:

3.1.5 Mechanical engineer :

3.1.6 Civil engineer :

3.1.7 Security engineer :

3.1.8 Other (if any) :

3.2 Name and telephone number of design consultant's contact person :

3.2.1 Construction project managers :

3.2.2 Architects :

3.2.3 Structural engineer :

3.2.4 Electrical engineer :

3.2.5 Mechanical engineer :

3.2.6 Civil engineer :

3.2.7 Security engineer :



3.2.8 Other (if any) :

4. THE WORKS

Nature of the works :

Commencement date :

Completion date :

Contractor: _____ Date: _____

Employer: _____ Date: _____

THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR **PRIOR TO COMMENCEMENT** OF WORK ON SITE.

ALL CONTRACTORS THAT QUALIFY TO NOTIFY MUST DO SO EVEN IF ANOTHER CONTRACTOR ON THE SITE HAD DONE SO PRIOR TO THE COMMENCEMENT OF WORK.



C3.7 Construction Environmental Management Plan

CHIEF ALBERT LUTHULI LOCAL MUNICIPALITY

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN
FOR
CONSTRUCTION OF BADPLAAS WASTE TRANSFER STATION.

ANNEXURE B

Construction Environmental Management Plan

PEM ENVIRONMENTAL MANAGEMENT PLAN
PEM.1 PURPOSE

The purpose of the EMP is to encourage good management practices through planning and commitment with respect to environmental issues, and to provide rational and practical environmental guidelines to minimise disturbance of the natural environment.

PEM.2 RESPONSIBILITIES FOR ENVIRONMENTAL MANAGEMENT

The contractor will be responsible for environmental control on site during construction and the maintenance period. The construction activities will be monitored by an independent environmental specialist and audited against the EMP.

PEM.3 TRAINING AND INDUCTION OF EMPLOYEES

The contractor has a responsibility to ensure that all those people involved in the project are aware of and familiar with the environmental requirements for the project (this includes sub-contractors, casual labour, etc.).

PEM.4 COMPLAINTS REGISTER AND ENVIRONMENTAL INCIDENT BOOK

Any complaints received by the project team from the community will be recorded. The complaint will be brought to the attention of the site manager.

All complaints received will be investigated and a response given to the complainant within 28 days.

All environmental incidents occurring on the site will also be recorded.

PEM.5 ENVIRONMENTAL SAFETY

The management of impacts associated with various categories of concern is discussed as separate topics, indicated below.

PEM.5.1 SOIL

- (a) Topsoil should be temporarily stockpiled, separately from (clay) subsoil and rocky material, when areas are cleared. If mixed with clay sub-soil the usefulness of the topsoil for rehabilitation of the site will be lost.
- (b) Stockpiled topsoil should not be compacted and should be replaced as the final soil layer. No vehicles are allowed access onto the stockpiles after they have been placed.
- (c) Stockpiled soil should be protected by erosion-control berms if exposed for a period of greater than 14 days during the wet season. The need for such measures will be indicated in the site-specific report.
- (d) Topsoil stripped from different sites must be stockpiled separately and clearly identified as such. Topsoil obtained from sites with different soil types must not be mixed.
- (e) Topsoil stockpiles must not be contaminated with oil, diesel, petrol, waste or any other foreign matter, which may inhibit the later growth of vegetation and microorganisms in the soil.
- (f) Soil must not be stockpiled on drainage lines or near watercourses without prior consent from the Project Manager.
- (g) Soil should be exposed for the minimum time possible once cleared of invasive vegetation, that is the timing of clearing and grubbing should be co-ordinated as much as possible to avoid prolonged exposure of soils to wind and water erosion. Stockpiled topsoil must be either vegetated with indigenous grasses or covered with a suitable fabric to prevent erosion and invasion by weeds.
- (h) Limited vehicular access is allowed across rocky outcrops and ridges.

- (i) All cut and fill surfaces need to be stabilized with appropriate material or measures when major civil works are complete.
- (j) Erosion and donga crossings must be dealt with as river crossings. Appropriate soil erosion and control procedures must be applied to all embankments that are disturbed and de-stabilized.
- (k) All equipment must be inspected regularly for oil or fuel leaks before it is operated. Leakages must be repaired on mobile equipment or containment trays placed underneath immobile equipment until such leakage has been repaired.
- (l) Soil contaminated with oil must be appropriately treated and disposed of at a permitted landfill site or the soil can be regenerated using bio-remediation methods.
- (m) Runoff must be reduced by channelling water into existing surface drainage system.

PEM.5.2 WATER

- (a) Adequate sedimentation control measures must be instituted at any river crossings when excavations or disturbance of a riverbanks or riverbeds takes place.
- (b) Adequate sedimentation control measures must be implemented where excavations or disturbance of drainage lines of a wetland may take place.
- (c) All fuel, chemical, oil, etc spills must be confined to areas where the drainage of water can be controlled. Use appropriate structures and methods to confine spillages such as the construction of berms and pans, or through the application of surface treatments that neutralise the toxic effects prior to the entry into a watercourse.
- (d) Oil absorbent fibres must be used to contain oil spilt in water.
- (e) During construction through a wetland, the majority of the flow of the wetland should be allowed to pass down stream.
- (f) Vehicular traffic across wetland areas must be avoided.
- (g) No dumping of foreign material in streams, rivers and/or wetland areas is allowed.
- (h) The wetland area and/or river must not be drained, filled or altered in any way including alteration of a bed and/or, banks, without prior consent from the DWAF. The necessary licenses must be obtained in terms of Section 21 and 22 of the National Water Act, 36 of 1998 from DWAF.
- (i) No fires or open flames are allowed in the vicinity of the wetland, especially during the dry season.
- (j) No swimming, washing (including vehicles and equipment), fishing or related activity is permitted in a wetland or river without written permission from the Project Manager.
- (k) Disturbances to nesting, breeding and roaming sites of animals in or adjacent to wetland areas must be minimized.

PEM.5.3 AIR

- (a) Speed limits must be implemented in all areas, including public roads and private property to limit the levels of dust pollution.
- (b) Dust must be suppressed on access roads and construction sites during dry periods by the regular application of water or a biodegradable soil stabilisation agent. Water used for this purpose must be used in quantities that must not result in the generation of run-off.
- (c) The site-specific investigation will quantify the impact of dust on nearby wetlands, rivers and dams in terms of sedimentation. Mitigation measures identified during the site specific study must be

implemented.

- (d) The Contractor must notify the Principal of all schools within 50m of the site of proposed activities. The Principal must in turn ensure that children with allergies and respiratory ailments take the necessary precautionary measures during the construction period. The Contractor must ensure that construction activities do not disturb school activities e.g. dust clouds may reduce visibility affecting sports activities.
- (e) Waste must be disposed of, as soon as possible at a municipal transfer station, skip or on a permitted landfill site. Waste must not be allowed to stand on site to decay, resulting in malodours.
- (f) Noise control measures must be implemented. All noise levels must be controlled at the source. All employees must be given the necessary ear protection gear. IAP's must be informed of the excessive noise factors.
- (g) The Contractor must inform all adjacent landowners of any after-hour construction activities and any other activity that could cause a nuisance e.g. the application of chemicals to the work surface. Normal working hours must be clearly indicated to adjacent land owners.
- (h) No loud music is allowed on site and in construction camps.
- (i) No fires are allowed if smoke from such fires will cause a nuisance to IAP's.

PEM.5.4 SOCIAL AND CULTURAL

- (a) Access by non-construction people onto any construction sites must be restricted. The Contractors activities and movement of staff must be restricted to designated construction areas only.
- (b) The Contractors crew must be easily identifiable due to clothing, identification cards or other methods.
- (c) Rapid migration of job seekers could lead to squatting and social conflict with resident communities and increase in social pathologies if not properly addressed. The Contractor must ensure that signs indicating the availability of jobs are installed.
- (d) Criteria for selection and appointment (by the Contractor) of construction labour must be established to allow for preferential employment of local communities. The Local Authority must be actively involved in the process of appointing temporary labourers. The Municipality's Labour Register will be the ONLY means of labour sourcing.
- (e) Sub-Contractors and their employees must comply with all the requirements of this document and supporting documents e.g. the Contract document that applies to the Contractor. Absence of specific reference to the sub-contractor in any specification does not imply that the sub-contractor is not bound by this document.
- (f) No member of the construction workforce is allowed to wander around private property, except within the immediate surroundings of the site.
- (g) The Contractor must provide suitable sanitation facilities for site staff. Sanitation provided during the construction phase should be managed so that it does not cause environmental health problems. The use of the surrounding fields or grounds for toilet purposes is not permitted under any circumstance.
- (h) The Contractor must arrange for all his employees and those of his sub-contractors to be informed of the findings of the environmental report before the commencement of construction to ensure:
 - A basic understanding of the key environmental features of the work site and environments, and
 - Familiarity with the requirements of this document and the site specific report.
- (i) Supervisory staff of the Contractor or his sub-contractors must not direct any person to undertake any activities which would place such person in contravention of the specifications of this document endanger his/her life or cause him/her to damage the environment.

- (j) The demand for construction materials and supplies will have an effect on the local economy. This impact can be optimised by sourcing and purchasing materials locally and regionally wherever possible, insofar as the material complies with the design specification.
- (k) The Contractor must maintain a detailed complaint register. This must be forwarded, together with solutions, to the authorities when requested.

PEM.5.5 AESTHETICS

- (a) Scenic Quality

Damage to the natural environment must be minimized.

Trees and tall woody shrubs must be protected from damage to provide a natural visual shield. Excavated material must not be placed on such plants and movement across them must not be allowed, as far as practical.

The clearing of all sites must be kept to a minimum and surrounding vegetation must, as far as possible, be left intact as a natural shield.

No painting or marking of natural features must be allowed.

- (b) All above ground structures could be treated or painted to blend in with the natural environment.
- (c) Cut and fill areas, river and stream crossings and other soil stabilisation works must be constructed to blend in with the natural environment.
- (d) Natural outcrops, rocky ridges and other natural linear features, must not be bisected. Vegetation on such features must, as far as possible, not be cut unless absolutely necessary for construction.
- (e) Excavated material must be flattened (not compacted) or removed from site. No heaps of spoil material must be left on site once the Contractor has moved off site either temporarily or permanently.
- (f) Any complaints from interest groups regarding the appearance of the construction site must be recorded and addressed promptly by the Contractor.

PEM.5.6 ARCHAEOLOGY AND CULTURAL SITES

- (a) All finds of human remains must be reported to the nearest police station.
- (b) Human remains from the graves of victims of conflict, or any burial ground or part thereof which contains such graves and any other graves that are deemed to be of cultural significance may not be destroyed, damaged, altered, exhumed or removed from their original positions without a permit from the South African Heritage and Resource Agency (SAHRA).
- (c) Work in areas where artefacts are found must cease immediately.
- (d) Under no circumstances must the Contractor, his/her employees, his/her sub-contractors or his/her sub-contractors' employees remove, destroy or interfere with archaeological artefacts. Any person who causes intentional damage to archaeological or historical sites and/or artefacts could be penalised or legally prosecuted in terms of the National Heritage Resources Act, 25 of 1999.
- (e) A fence at least 2 m outside the extremities of the site must be erected to protect archaeological sites.
- (f) All known and identified archaeological and historical sites must be left untouched.
- (g) Work in the area can only be resumed once the site has been completely investigated. The Project Manager will inform the Contractor when work can resume.

PEM.5.7 FLORA

-
- (a) All suitable and rare flora and seeds must be rescued and removed from the site. They must be suitably stored, for future use in rehabilitation.
 - (b) The felling and/or cutting of trees and clearing of bush must be minimised.
 - (c) Bush must only be cleared to provide essential access for construction purposes.
 - (d) The spread of alien vegetation must be minimized.
 - (e) Any incident of unauthorised removal of plant material, as well as accidental damage to priority plants, must be documented by the Contractor.
 - (f) Woody vegetative matter stripped during construction must either be spread randomly throughout the surrounding fields so as to provide biomass for other microorganisms and habitats for small mammals and birds, or it may be stockpiled for later redistribution over the reinstated top soiled surface. No vegetative matter must be burnt or removed for firewood other than those removed during the grubbing and clearing phase. Such vegetation can be made available to the local inhabitants to be used as firewood.
 - (g) No tree outside the footprint of the Works area must be damaged.

PEM.5.8 FAUNA

- (a) No species of animal may be poached, snared, hunted, captured or wilfully damaged or destroyed.
- (b) Snakes and other reptiles that may be encountered on the construction site must not be killed unless the animal endangers the life of an employee.
- (c) Anthills and/or termite nests that occur must not be disturbed unless it is unavoidable for construction purposes.
- (d) Disturbances to nesting sites of birds must be minimized.
- (e) The Contractor must ensure that the work site is kept clean and free from rubbish, which could attract pests.

PEM.5.9 INFRASTRUCTURE

- (a) The relevant authorities must be notified of any interruptions of services, especially the District Municipality, Local Municipality, National Road Agency, Spoornet, TELKOM and ESKOM. In addition, care must be taken to avoid damaging major and minor pipelines and other services.
- (b) The integrity of property fences must be maintained.
- (c) No telephone lines must be dropped during the construction operations, except where prior agreement by relevant parties is obtained. All crossings must be protected, raised or relocated as necessary.
- (d) All complaints and/or problems related to impacts on man-made facilities and activities must be promptly addressed by the Contractor and documented.
- (e) Storage Facilities
 - Proper storage facilities should be provided for the storage of oils, grease, fuels, chemicals and hazardous materials.
 - The Contractor must ensure that accidental spillage does not pollute soil and water resources.
 - Fuel stock reconciliation must be done on all underground tanks to ensure no loss of oil, which could pollute groundwater resources.

- Cement must be stored and mixed on an impermeable substratum.

(f) Traffic Control

All reasonable precautions must be taken during construction to avoid severely interrupting the traffic flow on existing roads, especially during peak periods.

Before any work can start the Local Traffic Department must be consulted about measures to be taken regarding pedestrian and vehicular traffic control.

--END--

C3.8 Electrical specifications

CHIEF ALBERT LUTHULI LOCAL MUNICIPALITY

ELECTRICAL SPECIFICATIONS
FOR
CONSTRUCTION OF BADPLAAS WASTE TRANSFER STATION.

ANNEXURE C

Electrical Specifications

DESIGN GUIDELINES, REGULATIONS, BYE-LAWS AND CODES OF PRACTICE

The design and technical documentation for this project has been carried out in compliance with the following guidelines, regulations, byelaws and codes of practice, with all amendments currently in force:

- SANS 10142-1: 2012 – Wiring Code for the wiring of premises (Part 1: Low voltage installations).
- SANS 10142-2: 2014 – Wiring Code for the wiring of premises (Part 2: Medium voltage installations above 1 kV (AC) but not exceeding 22 kV (AC) and up to and including 3 MVA capacity).
- SANS 10114-1: 2005 – Artificial Lighting of Interiors.
- SANS 10114-2: 2009 – Artificial Lighting of Interiors (Emergency lighting).
- SANS 10098-1 - Road Lighting.
- SANS 10139: 2012 – Fire detection and alarm systems for buildings.
- SANS 10313: 2012 – Protection against lightning.
- National Department of Public Works Specifications
- SANS 10400 – National Building Regulations
- Occupational Health and Safety Act 2004.

Further, the designs are based on our “Long Life” and “Easy Maintenance” principles.

Our “**Long life**” principle will be achieved by:

- Specifying high quality equipment and materials, both in terms of Performance and durability.
- Specifying adequate mounting, protection, sheltering and technical support of the security system equipment and other specialist installations.

Our “**Easy Maintenance**” principle will be achieved by:

- Specifying locally available materials and equipment, with good back up from local suppliers. The material and equipment specified will be durable, reasonably priced and quickly available ex-stock from the local suppliers.
- Ensuring availability of spare parts and fast locally available backup for the systems and equipment installed.

SPECIFICATION FOR GENERAL ELECTRICAL INSTALLATIONS

PART 1 - GENERAL SPECIFICATION

TABLE OF CONTENTS

<u>CLAUSE</u>	<u>DESCRIPTION</u>
1	TESTS
2	MAINTENANCE OF INSTALLATIONS
3	REGULATIONS
4	NOTICES AND FEES
5	SCHEDULE OF FITTINGS
6	QUALITY OF MATERIALS
7	CONDUIT AND ACCESSORIES
8	CONDUIT IN ROOF SPACES
9	SURFACE MOUNTED CONDUIT
10	CONDUIT IN CONCRETE SLABS
11	FLEXIBLE CONNECTIONS FOR CONNECTING UP OF STOVES, MACHINES, ETC
12	WIRING
13	SWITCHES AND SOCKET OUTLETS
14	SWITCHGEAR
15	SWITCHBOARDS
16	WORKMANSHIP AND STAFF
17	CERTIFICATE OF COMPLIANCE
18	EARTHING OF INSTALLATION
19	MOUNTING AND POSITIONING OF LUMINAIRES

GENERAL SPECIFICATION

1) TESTS

After completion of the works and before first delivery is taken, a full test will be carried out on the installation for a period of sufficient duration to determine the satisfactory working thereof. During this period the installations will be inspected and the Contractor shall make good, to the satisfaction of the Representative/Agent, any defects which may arise.

The Contractor shall provide all instruments and equipment required for testing and any water, power and fuel required for the commissioning and testing of the installations at completion.

2) MAINTENANCE OF INSTALLATIONS

With effect from the date of the First Delivery Certificate the Contractor shall at his own expense undertake the regular servicing of the installation during the maintenance period and shall make all adjustments necessary for the correct operation thereof.

If during the said period the installations is not in working order for any reason for which the Contractor is responsible, or if the installations develops defects, he shall immediately upon being notified thereof take steps to remedy the defects and make any necessary adjustments.

Should such stoppages however be so frequent as to become troublesome, or should the installations otherwise prove unsatisfactory during the said period the Contractor shall, if called upon by the Representative/Agent or the Director-General, at his own expense replace the whole of the installations or such parts thereof as the Representative/Agent or the Director-General may deem necessary with apparatus specified by the Representative/Agent or the Director-General.

3) REGULATIONS

The installation shall be erected and tested in accordance with the following Acts and regulations:

- a) The latest issue of SABS 0142: "Code of Practice for the Wiring of Premises",
- b) The Occupational Health and Safety Act, 1993 (Act 85 of 1993) as amended,
- c) The Local Government Ordinance 1939 (Ordinance 17 of 1939) as amended and the municipal by-laws and any special requirements of the local supply authority,
- d) The Fire Brigade services Act 1993 Act 99 of 1987 as amended,
- e) The National Building Regulations and Building Standards Act 1977 (Act 103 of 1977) as amended,
- f) The Post Office Act 1958 (Act 44 of 1958) as amended,
- g) The Electricity Act 1984 (Act 41 of 1984) as amended and
- h) The Regulations of the local Gas Board where applicable.

4) NOTICES AND FEES

The Contractor shall give all notices required by and pay all necessary fees, including any inspection fees, which may be due to the local Supply Authority.

On production of the official account, only the net amount of the fee charged by the Supply Authority for connection of the installation to the supply mains, will be refunded to the Contractor by the Department.

5) SCHEDULE OF FITTINGS

In all instances where schedule of light, socket outlet and power points are attached to or included on the drawings, these schedules are to be regarded as forming part of the specification.

6) QUALITY OF MATERIALS

Only materials of first-class quality shall be used and all materials shall be subject to the approval of the Department. Departmental specifications for various materials to be used on this Contract are attached to and form part of this specification.

Wherever applicable the material is to comply with the relevant South African Bureau of Standards, specifications, or to British Standard Specifications, where no SABS Specifications exist.

Materials wherever possible, must be of South African manufacture.

7) CONDUIT AND ACCESSORIES

The type of conduit and accessories required for the service, i.e. whether the conduit and accessories shall be of the screwed type, plain-end type or of the non-metallic type and whether metallic conduit shall be black enamelled or galvanised, is specified in Part 2 of this specification.

Unless other methods of installation are specified for certain circuits, the installation shall be in conduit throughout. No open wiring in roof spaces or elsewhere will be permitted.

The conduit and conduit accessories shall comply fully with the applicable SABS specifications as set out below and the conduit shall bear the mark of approval of the South African Bureau of Standards.

- a) Screwed metallic conduit and accessories: SABS 1065, parts 1 and 2.
- b) Plain-end metallic conduit and accessories: SABS 1065, parts 1 and 2.
- c) Non-metallic conduit and accessories: SABS 950

All conduit fittings except couplings, shall be of the inspection type. Where cast metal conduit accessories are used, these shall be of malleable iron. Zinc base fittings will not be allowed.

Bushes used for metallic conduit shall be brass and shall be provided in addition to locknuts at all points where the conduit terminates at switchboards, switch-boxes, draw-boxes, etc.

Draw-boxes are to be provided in accordance with the "Wiring Code" and wherever necessary to facilitate easy wiring.

For light and socket outlet circuits, the conduit used shall have an external diameter of 20mm. In all other instances the sizes of conduit shall be in accordance with the "Wiring Code" for the specified number and size of conductors, unless otherwise directed in part 2 of this specification or indicated on the drawings.

Only one manufactured type of conduit and conduit accessories will be permitted throughout the installation.

Running joints in screwed conduit are to be avoided as far as possible and all conduit systems shall be set or bent to the required angles. The use of normal bends must be kept to a minimum with exception of larger diameter conduits where the use of such bends is essential.

All metallic conduit shall be manufactured of mild steel with a minimum thickness of 1,2mm for plain-end conduit and 1,6mm in respect of screwed conduit.

Under no circumstances will conduit having a wall thickness of less than 1,6mm be allowed in screeding laid on top of concrete slabs.

Bending and setting of conduit must be done with special bending apparatus manufactured for the purpose and which are obtainable from the manufacturers of the conduit systems. Damage to conduit resulting from the use of incorrect bending apparatus or methods applied must on indication by the Department's inspectorate staff, be completely removed and rectified and any wiring already drawn into such damaged conduits must be completely renewed at the Contractor's expense.

Conduit and conduit accessories used for flame-proof or explosion proof installations and for the suspension of luminaires as well as all load bearing conduit shall in all instances be of the metallic screwed type.

All conduit and accessories used in areas within 50 km of the coast shall be galvanised to SABS 763.

Tenderers must ensure that general approval of the proposed conduit system to be used is obtained from the local electricity supply authority prior to the submission of their tender. Under no circumstances will consideration be given by the Department to any claim submitted by the Contractor which may result from a lack of knowledge in regard to the supply authority's requirements.

8) CONDUIT IN ROOF SPACES

Conduit in roof spaces shall be installed parallel or at right angles to the roof members and shall be secured at intervals not exceeding 1,5m by means of saddles screwed to the roof timbers.

Nail or crampets will not be allowed.

Where non metallic conduit has been specified for a particular service, the conduit shall be supported and fixed with saddles with a maximum spacing of 450 mm. The Contractor shall supply and install all additional supporting timbers in the roof space as required.

Under flat roofs, in false ceilings or where there is less than 0,9m of clearance, or should the ceilings be insulated with glass wool or other insulating material, the conduit shall be installed in such a manner as to allow for all wiring to be executed from below the ceilings.

Conduit runs from distribution boards shall, where possible terminate in fabricated sheet steel draw-boxes installed directly above or in close proximity to the boards.

9) SURFACE MOUNTED CONDUIT

Wherever possible, the conduit installation is to be concealed in the building work; however, where unavoidable or otherwise specified under Part 2 of the specification, conduit installed on the surface must be plumbed or levelled and only straight lengths shall be used.

The use of inspection bends is to be avoided and instead the conduit shall be set uniformly and inspection coupling used where necessary.

No threads will be permitted to show when the conduit installation is complete, except where running couplings have been employed.

Running couplings are only to be used where unavoidable, and shall be fitted with a sliced coupling as a lock-nut.

Conduit is to be run on approved spaced saddles rigidly secured to the walls.

Alternatively, fittings, tees, boxes, couplings etc., are to be cut into the surface to allow the conduit to fit flush against the surface. Conduit is to be bedded into any wall irregularities to avoid gaps between the surface and the conduit.

Crossing of conduits is to be avoided, however, should it be necessary purpose-made metal boxes are to be provided at the junction. The finish of the boxes and positioning shall be in keeping with the general layout.

Where several conduits are installed side by side, they shall be evenly spaced and grouped under one purpose-made saddle.

Distribution boards, draw-boxes, industrial switches and socket outlets etc., shall be neatly recessed into the surface to avoid double sets.

In situations where there are no ceilings the conduits are to be run along the wall plates and the beams. Painting of surface conduit shall match the colour of the adjacent wall finishes.

Only approved plugging materials such as aluminium inserts, fibre plugs, plastic plugs, etc., and round-head screws shall be used for fixing saddles, switches, socket outlets, etc., to walls, wood plugs and the plugging in joints in brick walls are not acceptable.

10) CONDUIT IN CONCRETE SLABS

In order not to delay building operations the Contractor must ensure that all conduits and other electrical equipment which are to be cast in the concrete columns and slabs are installed in good time.

The Contractor shall have a representative in attendance at all times when the casting of concrete takes place.

Draw-boxes, expansion joint boxes and round conduit boxes are to be provided where necessary. Sharp bends of any nature will not be allowed in concrete slabs.

Draw and/or inspection boxes shall be grouped under one common cover plate, and must preferably be installed in passages or male toilets.

All boxes, etc., are to be securely fixed to the shuttering to prevent displacement when concrete is cast. The conduit shall be supported and secured at regular intervals and installed as close as possible to the neutral axis of concrete slabs and/or beams.

Before any concrete slabs are cast, all conduit droppers to switchboards shall be neatly spaced and rigidly fixed.

11) FLEXIBLE CONNECTIONS FOR CONNECTING UP OF STOVES, MACHINES, ETC.

Flexible tubing connections shall be of galvanised steel construction, and in damp situations of the plastic sheathed galvanised steel type. Other types may only be used subject to the prior approval of the Department's site electrical representative.

Connectors for coupling onto the flexible tubing shall be of the gland or screw-in types, manufactured of either brass or cadmium or zinc plated mild steel, and the connectors after having been fixed onto the tubing, shall be durable and mechanically sound.

Aluminium and zinc alloy connectors will not be acceptable.

12) WIRING:

Except where otherwise specified in Part 2 of this specification, wiring shall be carried out in conduit throughout. Only one circuit per conduit will be permitted.

No wiring shall be drawn into conduit until the conduit installation has been completed and all conduit ends provided with bushes. All conduit to be clear of moisture and debris before wiring is commenced.

Unless otherwise specified in Part 2 of this specification or indicated on the service drawings, the wiring of the installation shall be carried out in accordance with the "Wiring Code". Further to the requirements concerning the installation of earth conductors to certain light points as set out in the "Wiring Code", it is a specific requirement of this document that where plain-end metallic conduit or non-metallic conduit has been used, earth conductors must be provided and drawn into the conduit with the main conductors to all points, including all luminaires and switches throughout the installation.

Wiring for lighting circuits is to be carried out with 2,5mm² conductors and a 2,5mm² earth conductor. For socket outlet circuits the wiring shall comprise 4mm² conductors and a 4mm² earth conductor. In certain instances, as will be directed in Part 2 of this specification, the sizes of the aforementioned conductors may be increased for specified circuits. Sizes of conductors to be drawn into conduit in all other instances, such as feeders to distribution boards, power points etc., shall be as specified elsewhere in this specification or indicated on the drawings. Sizes of conductors not specified must be determined in accordance with the "Wiring Code".

The loop-in system shall be followed throughout, and no joints of any description will be permitted.

The wiring shall be done in PVC insulated 600/1000 V grade cable to SABS 150.

Where cable ends connect onto switches, luminaires etc., the end strands must be neatly and tightly twisted together and firmly secured. Cutting away of wire strands of any cable will not be allowed.

13) SWITCHES AND SOCKET OUTLETS

All switches and switch-socket outlet combination units shall conform to the Department Quality Specifications which form part of this specification.

No other than 16A 3 pin sockets are to be used, unless other special purpose types are distinctly specified or shown on the drawings.

All light switches shall be installed at 1,4m above finished floor level and all socket outlets as directed in the Schedule of Fittings which forms part of this specification or alternatively the height of socket outlets maybe indicated on the drawings.

14) SWITCHGEAR

Switchgear, which includes circuit breakers, iron-clad switches, interlocked switch-socket outlet units, contactors, time switches, etc., is to be in accordance with the Departmental Quality Specifications which form part of this specification and shall be equal and similar in quality to such brands as may be specified.

For uniform appearance of switchboards, only one approved make of each of the different classes of switchgear mentioned in the Quality Specifications shall be used throughout the installations.

15) SWITCHBOARDS

All boards shall be in accordance with the types as specified, be constructed according to the detail or type drawings and must be approved by the Department before installation.

In all instances where provision is to be made on boards for the supply authority's main switch and/or metering equipment the contractor must ensure that all requirements of the authorities concerned in this respect are met.

Any construction or standard type aboard proposed as an alternative to that specified, must have the prior approval of the Department.

All busbars, wiring, terminals, etc., are to be adequately insulated and all wiring is to enter the switchgear from the back of the board. The switchgear shall be mounted within the boards to give a flush front panel. Cable and boxes and other ancillary equipment must be provided where required.

Clearly engraved labels are to be mounted on or below every switch. The working of the labels in English and Afrikaans, is to be according to the lay-out drawings or as directed by the Department's representative and must be confirmed on site. Flush mounted boards to be installed with the top of the board 2,0m above the finished floor level.

16) WORKMANSHIP AND STAFF

Except in the case of electrical installations supplied by a single phase electricity supply at the point of supply, an accredited person shall exercise general control over all electrical installation work being carried out.

The workmanship shall be of the highest grade and to the satisfaction of the Department.

All inferior work shall, on indication by the Department's inspecting officers, immediately be removed and rectified by and at the expense of the Contractor.

17) CERTIFICATE OF COMPLIANCE

On completion of the service, a certificate of compliance must be issued to the Department's Representative/Agent in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993).

18) EARTHING OF INSTALLATION

Main earthing

The type of main earthing must be as required by the supply authority if other than the Departments, and in any event as directed by the Department's representative, who may require additional earthing to meet test standards.

Where required an earth mat shall be provided, the minimum size, unless otherwise specified, being 1,0m x1,0m and consisting of 4mm diameter hard-drawn bare copper wires at 250mm centres, brazed at all intersections.

Alternatively or additionally earth rods or trench earths may be required as specified or directed by the Department's authorised representative.

Installations shall be effectively earthed in accordance with the "Wiring Code" and to the requirements of the supply authority. All earth conductors shall be stranded copper with or without green PVC installation.

Connection from the main earth bar on the main board must be made to the cold water main, the incoming service earth conductor, if any and the earth mat or other local electrode by means of 12mm x 1,60 mm solid copper strapping or 16 mm² stranded (not solid) bare copper wire or such conductor as the Department's representative may direct. Main earth copper strapping where installed below 3m from ground level, must be run in 20 mm diameter conduit securely fixed to the walls.

All other hot and cold water pipes shall be connected with 12mm x 0,8mm perforated or solid copper strapping (not conductors) to the nearest switchboard. The strapping shall be fixed to the pipework with brass nuts and bolts and against walls with brass screws at 150 mm centres. In all cases where metal water pipes, down pipes, flues, etc., are positioned within 1,6m of switchboards an earth connection consisting of copper strapping shall be installed between the pipework and the board. In vertical building ducts accommodating both metal water pipes and electrical cables, all the pipes shall be earthed at each distribution board.

Roofs, gutters and down pipes

Where service connections consist of overhead conductors, all metal parts of roofs, gutters and down pipes shall be earthed. One bare 10mm² copper conductor shall be installed over the full length of the ceiling void, fixed to the top purlin and connected to the main earth conductor and each switchboard. The roof and gutters shall be connected at 15m intervals to this conductor by means of 12mm X 0,8mm copper strapping(not conductors) and galvanised bolts and nuts. Self-tapping screws are not acceptable. Where service connections consist of underground supplies, the above requirements are not applicable.

Sub-distribution boards

A separate earth connection shall be supplied between the earth busbar in each sub-distribution board and the earth busbar in the Main Switchboard. These connections shall consist of a bare or insulated stranded copper conductors installed along the same routes as the supply cables or in the same conduit as the supply conductors. Alternatively armoured cables with earth continuity conductors included in the armouring may be utilised where specified or approved.

Sub-circuits

The earth conductors of all sub-circuits shall be connected to the earth busbar in the supply board in accordance with SABS 0142.

Ring Mains

Common earth conductors may be used where various circuits are installed in the same wire way in accordance with SABS 0142. In such instances the sizes of earth conductors shall be equivalent to that of the largest current carrying conductor installed in the wire way, alternatively the size of the conductor shall be as directed by the Engineer. Earth conductors for individual circuits branching from the ring main shall be connected to the common earth conductor with T-ferrules or soldered. The common earth shall not be broken.

Non-metallic Conduit

Where non-metallic conduit is specified or allowed, the installation shall comply with the Department's standard quality specification for "conduit and conduit accessories".

Standard copper earth conductors shall be installed in the conduits and fixed securely to all metal appliances and equipment, including metal switch boxes, socket-outlet boxes, draw-boxes, switchboards, luminaires, etc. The securing of earth conductors by means of self-threading screws will not be permitted.

Flexible Conduit

An earth conductor shall be installed in all non-metal flexible conduit. This earth conductor shall not be installed externally to the flexible conduit but within the conduit with the other conductors. The earth conductor shall be connected to the earth terminals at both ends of the circuit.

Connection

Under no circumstances shall any connection points, bolts, screws, etc., used for earthing be utilised for any other purpose. It will be the responsibility of the Contractor to supply and fit earth terminals or clamps on equipment and materials that must be earthed where these are not provided.

Unless earth conductors are connected to proper terminals, the end shall be tinned and lugged.

19) MOUNTING AND POSITIONING OF LUMINAIRES

The Contractor is to note that in the case of board and acoustic tile ceilings, i.e. as opposed to concrete slabs, close co-operation with the building contractor is necessary to ensure that as far as possible the luminaires are symmetrically positioned with regard to the ceiling pattern.

The layout of the luminaires as indicated on the drawings must be adhered to as far as possible and must be confirmed with the Client's representative.

Luminaires installed against concrete ceilings shall be screwed to the outlet boxes and in addition 2 x 6mm expansion or other approved type fixing bolts are to be provided. The bolts are to be $\frac{3}{4}$ of the length of the luminaires apart.

Luminaires to be mounted on board ceilings shall be secured by means of two 40mm x No. 10 round head screws and washers. The luminaires shall also be bonded to the circuit conduit by means of locknuts and brass bushes. The fixing screws are to be placed $\frac{3}{4}$ of the length of the fitting apart.

Earth conductors must be drawn in with the circuit wiring and connected to the earthing terminal of all fluorescent luminaires as well as other luminaires exposed to the weather in accordance with the "Wiring Code".

SPECIFICATION FOR GENERAL ELECTRICAL INSTALLATIONS

PART 2 - INSTALLATION DETAILS

CONTENTS

<u>CLAUSE</u>	<u>DESCRIPTION</u>
1	CABLE SLEEVE PIPES
2	NOTICES
3	ELECTRICAL EQUIPMENT
4	DRAWINGS
5	BALANCING OF LOAD
6	SERVICE CONDITIONS
7	SWITCHES AND SOCKET OUTLETS
8	LIGHT FITTINGS AND LAMPS
9	EARTHING AND BONDING
10	MAINTENANCE OF ELECTRICAL SUPPLY
11	EXTENT OF WORK
12	SUPPLY AND CONNECTION
13	CONDUIT AND WIRING
14	POWER POINTS
15	CABLES
16	DISTRIBUTION BOARDS
17	SCHEDULE OF LIGHT FITTINGS

INSTALLATION DETAILS

1) CABLE SLEEVE PIPES

Where cables cross under roadways, other services and where cables enter buildings, the cables shall be installed in asbestos-cement pipes, earthenware or high density polyethylene pipes.

The ends of all sleeves shall be sealed with a non-hardening watertight compound after the installation of cables. All sleeves intended for future use shall likewise be sealed.

2) NOTICES

The Contractor shall issue all notices and make the necessary arrangements with Supply Authorities, the Postmaster-General, S.A. Transport Services, Provincial or National Road Authorities and other authorities as may be required with respect to the installation.

3) ELECTRICAL EQUIPMENT

All equipment and fittings supplied must be in accordance with the attached quality specification (Part 3 of this document), suitable for the relevant supply voltage, and frequency and must be approved by the Department's representative / Engineer.

4) DRAWINGS

The drawings generally show the scope and extent of the proposed work and shall not be held as showing every minute detail of the work to be executed.

The position of power points, switches and light points that may be influenced by built-in furniture must be established on site, prior to these items being built in.

5) BALANCING OF LOAD

The Contractor is required to balance the load as equally as possible over the multi-phase supply.

6) SERVICE CONDITIONS

All plant shall be designed for the climatic conditions appertaining to the service.

7) SWITCHES AND SOCKET OUTLETS

The installation of switches and socket outlets must conform to clause 13 of Part 1 of this specification.

8) LIGHT FITTINGS AND LAMPS

The installation and mounting of luminaires must conform with clause 19 of Part 1 of this specification.

All fittings to be supplied by the Contractor shall have the approval of the Department and shall conform to the relevant quality specification as laid down by the Department. Luminaires with incandescent lamps shall not be accepted.

The light fittings must be of the type specified in the Schedule of Light Fittings.

9) EARTHING AND BONDING

The Contractor will be responsible for all earthing and bonding of the building and installation. The earthing and bonding is to be carried out strictly as described in clause 18 of Part 1 of this specification and to the satisfaction of the Department's representative.

10) MAINTENANCE OF ELECTRICAL SUPPLY

All interruptions of the electrical supply that may be necessary for the execution of the work, shall be subject to prior arrangement between the Contractor and the user Client and the Client's representative / Engineer.

11) EXTENT OF WORK

The work covered by this contract comprises the complete electrical installation, in working order, as shown on the drawings and specification, including the supply and installation of all fittings and also the installation of such equipment supplied by the client.

12) SUPPLY AND CONNECTION

The supply will be 400/230 volts, 50Hz.

The power supply will be from the existing LOW VOLTAGE PANEL, located in the main switchgear room next to the Allied Services Building.

13) CONDUIT AND WIRING

Conduit and conduit accessories shall be black enameled/galvanised screwed conduit or black enameled/galvanised plain end conduit in accordance with SABS 162, 763 and 1007 respectively. **No PVC conduits will be allowed.**

All conduits shall be flush mounted installed, the contractor shall liaise with the main contractor to ensure that all conduits are installed before any painting of walls take place to ensure that the conduits are painted the same as the walls.

All conduit, regardless of the system employed, shall be installed strictly as described in the applicable paragraphs of clauses 4 to 8 of Part 1 of the specification. Wiring of the installation shall be carried out as directed in clause 9 of part 1 of this specification.

Where plain end conduit is offered all switches and light fittings must be supplied with a permanent earth terminal for the connection of the earth wire.

Lugs held by switch fixing screws or self tapping screws will not be acceptable.

13.1) Telephone Installation

The Contractor shall allow for the complete installation of all conduits, outlet boxes, sleeve pipes, etc., required for the telephone system as shown on the drawings.

The size of all telephone conduits are indicated on the drawings and must be installed in the wall / floorslab. Galvanised steel draw-wires shall be installed in all conduits.

End boxes must consist of a 50mm x 100 mm x 100mm outlet box fitted with suitable blank cover plates, flush mounted 0,4m above floor level.

13.2) Power Skirting Trunking

The Contractor shall be responsible for the supply and installation of three compartment three cover power skirting trunking complete with corner pieces, end pieces, junction pieces, supply conduits, cover plates and power outlets as specified and indicated on the drawings.

The power trunking must comply with SABS 1197. The Contractor must ensure that the power trunking is installed to the satisfaction of the Department's representative before commencing with the wiring of the power trunking.

- **The top compartment shall be used for power wiring and switched socket outlets, whilst the bottom compartments shall be used for telephone and other light current services.**

13.3) Wiring Channels

The Contractor shall supply and install all hangers, supports or fixings for the channels. Channel runs shall be carefully planned to avoid clashes with other services and to ensure that all covers can be removed after completion of the installation. Channels shall be supported with purpose made clamps, hangers, etc. as required. Channels shall be supported and fixed to the trusses in a sound manner to the satisfaction of the Client / Engineer.

All channels shall be supplied with metal snap in cover plates and shall be installed over the full length of the channel.

Adjoining lengths of channels shall be aligned and joined with connecting pieces that are pop-riveted to both adjoining sections, covers shall fit tightly over the joints.

Bends and T-joints shall be constructed with smooth edges and with the allowable bending radii specified in SABS 0142.

14) POWER POINTS

The Contractor shall allow for the installation of power points and the associated equipment as listed in the schedule, indicated on the drawings and described below:

- 1.1 GEYSERS
- 1.2 HAND DRIERS
- 1.3 Other equipment

15) CABLES

The Contractor shall supply and completely install all distribution cables as indicated on the drawings and listed in the Schedule of Cables.

The storage, transportation, handling and laying of the cables shall be according to first class practice, and the contractor shall have adequate and suitable equipment and labour to ensure that no damage is done to cables during such operations.

The cable-trenches shall be excavated to a depth of 0,6m deep below ground level and shall be 450mm wide for one to three cables, and the width shall be increased where more than three cables are laid together so that the cables may be placed at least two cable diameters apart throughout the run. The bottom of the trench shall be level and clean and the bottom and sides free from rocks or stones liable to cause damage to the cable.

The Contractor must take all necessary precautions to prevent the trenching work being in any way a hazard to the personnel and public and to safeguard all structures, roads, sewage works or other property on the site from any risk of subsidence and damage.

In the trenches the cables shall be laid on a 100mm thick bed of earth and be covered with a 150 mm layer of earth before the trench is filled in.

All joints in underground cables and terminations shall be made either by means of compound filled boxes according to the best established practice by competent cable jointers using first class materials or by means of approved epoxy-resin pressure type jointing kits such as "Scotchcast". Epoxy-resin joints must be made entirely in accordance with the manufacturer's instructions and with materials stipulated in such instructions. Low tension PVCA cables are to be made off with sealing glands and materials designed for this purpose which must be of an approved make. Where cables are cut and not immediately made off, the ends are to be sealed without delay.

The laying of cables shall not be commenced until the trenches have been inspected and approved. The cable shall be removed from the drum in such a way that no twisting, tension or mechanical damage is caused and must be adequately supported at intervals during the whole operation.

Particular care must be exercised where it is necessary to draw cables through pipes and ducts to avoid abrasion, elongation or distortion of any kind. The ends of such pipes and ducts shall be sealed to approval after drawing in of the cables.

Backfilling (after bedding) of the trenches is to be carried out with a proper grading of the material to ensure settling without voids, and the material is to be tamped down after the addition of every 150mm. The surface is to be made good as required.

On each completed section of the laid and jointed cable, the insulation resistance shall be tested to approval with an approved "Megger" type instrument of not less than 500 V for low tension cables.

Earth continuity conductors are to be run with all underground cables constituting part of a low-tension distribution system. Such continuity conductors are to be stranded bare copper of a cross-sectional area equal to at least half that of one live conductor of the cable, but shall not be less than 4mm² or more than 70mm². A single earth wire may be used as earth continuity conductor for two or more cables run together, branch earth wires being brazed on where required.

15.1) LAYING, JOINTING AND MAKING OFF OF ELECTRICAL CABLES

1. The use of the term "Inspector", includes the engineer or inspector of the Department or an empowered person of the concerned supervising consulting engineer's firm.
2. No cable is to be laid before the cable trench is approved and the soil qualification of the excavation is agreed upon by the Contractor and inspector.
3. After the cable has been laid and before the cable trench is back-filled the inspector must ensure that the cable is properly bedded and that there is no undesirable material included in the bedding layer.
4. No cable joints shall be accepted.
5. Termination of cables shall be with the correct size cable gland and be carried out by suitably experienced artisans.
6. All cable termination lugs shall be of tinned copper and of sufficient size.

16) DISTRIBUTION BOARDS

In addition to clause 14 and clause 15 of Part 1 of this specification the following shall also be applicable to switchboards required for this service.

The Contractor shall supply and install the distribution boards as indicated on the drawings and listed in the distribution Board Schedule. All distribution boards shall comply with the quality specification in Part 3 of this specification, and be approved by the Department's representative / Engineer.

17) SCHEDULE OF LIGHT FITTINGS

All light fittings and accessories shall be according to the quality specifications in Part 3 and shall be approved by the Department / Engineer.

Supply and install the luminaires schematically indicated on the drawings.

The required luminaire types are specified on the drawings and tie up with the types indicated on the layouts. Samples of all luminaires must be approved by the Inspector of the Department / Engineer before any order is placed.

All control gear within luminaires, shall bear the stamp of approval by the SABS.

The installation of luminaires must be done in accordance with the relevant clauses in parts 1 and 3 of this

specification.

All luminaires must be complete with lamps and where necessary, control gear. Starters of fluorescent luminaires may not be accessible from outside the luminaire. Openings in the luminaire for starters must be covered to the approval of the Department/Engineer.

The following luminaires are indicated on the respective drawings and must conform to the quality specifications Parts 1, 2 and 3 which form part of this contract.

- **NOTE: All luminaires must be approved by the Engineer and Architect prior to the installation of or any order being placed. They must carry the SABS mark of approval.**

--END--

PART C4: SITE INFORMATION

C4.1 General Information

This section describes the site at the time of tender to enable the tenderer to price his tender and to decide upon his method of working and programming and risks.

C4.1.1 Site Location

The proposed project area is located approximately 1.5 kilometres away from Road R38, east of Badplaas Resort. It is located along Road R541 (D225) provincial road linking Badplaas to Elukwatini. Access to the site will be off the R541 road. The geographical coordinates of the site are Longitude: (E): **30°35'22.70"** and Latitude (S): **25°57'38.29"** as per the general layout drawing.

C4.1.2 Access to Site and Restrictions

The construction will happen in an access-controlled area with restricted access to the site and all work will take place within the Chief albert Luthuli local Municipality at the Badplaas Landfill Site.

C4.1.3 Existing Services, Servitudes and Wayleaves

Known services:

All known service providers have services within the area of construction.

Use of detection equipment for the location of underground services:

Services must be detected using hand excavation and with the use of metal detectors.

Damage to services:

The contractor is responsible for damages to all services known and unknown. The contractor must, before commencing with any earthworks, ensure that he is aware of all the existing services are, if any. These services are to be properly exposed and protected during the period of construction. The client reserves the right to, should there be any claims with regard to services damaged by the contractor through negligence

Wayleaves will be supplied to the contractor by the Employer's Agent where applicable.

C4.1.4 Security

The Contractor shall be responsible for the security of his personnel, materials, and equipment and construction plant on and around the site of the Works and for the security of his camp. The Employer in this regard will consider no claims.

C4.1.5 Nature of Ground and Subsoil Conditions

There is no need for the geotechnical report, however if there is need for one, it shall be made available on request.

C4.2 Drawings

The following drawings have been attached to this tender document. The drawings are for tender purposes only.

List of Drawings:

Drawing No	Title	Discipline
PRJ 026 001_01a	Site Layout Details Option 1	Civil Engineering
PRJ 026 002	Drop Off Platform Building Layout	Civil Engineering
PRJ 026 003	Proposed Recycling Building	Civil Engineering
PRJ 026 004	Drop Off Platform Building Section Elevation	Civil Engineering
PRJ 026 005	Weighbridge Control Room	Civil Engineering