



public works
& infrastructure

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF LABOUR

TENDER DOCUMENT FOR BUILDING WORKS FOR STANDERTON LABOUR CENTRE

TENDER NO: NST21/003

MAY 2021

ISSUED BY:



DEPARTMENT OF PUBLIC WORKS

Private Bag X11280

Nelspruit

1200

Contact person:

Mr Cyreal Sekatane (Project manager)

Tel: 013 753 6377

NAME OF BIDDER:

TENDER DOCUMENT FOR BUILDING WORKS FOR STANDERTON LABOUR CENTRE

EMPLOYER

Department of Public Works

Private Bag X11280

NELSPRUIT

1200

Tel number: +27 13 753 6377

E-mail:

ARCHITECTS

Tiki Architects

No 23 on 37 Mulbarton Road

BERVERLY

2191

Tel number: +27 11 402 1936

E-mail: gerald@tikiarchitects.com

PRINCIPAL AGENTS

Tiki Architects

No 23 on 37 Mulbarton Road

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2191

Tel number: +27 11 402 1936

E-mail: gerald@tikiarchitects.com

STRUCTURAL AND CIVIL ENGINEERS

Tlou Integrated Tech

9 Ivy Street

SUNNYSIDE

0002

Tel number: +27 12 343 7120

E-mail: kekanasl@tlouintegratedtech.co.za

QUANTITY SURVEYORS

Department of Public Works

Private bag X11280

NELSPRUIT

1200

Tel number: +27 13 753 6335

E-mail: Diye.africa@dpw.gov.za

MECHANICAL ELECTRICAL ENGINEERS

Tsekwane Investment

MIDRAND

Tel number:

E-mail: enestolz@gmail.com

ELECTRICAL ENGINEERS

MMT Consulting Engineers (Pty) Ltd

Block A, Wedgefield Office Park

17 Muswell Road

BRYANSTON

2021

Tel number: +27 11 540 0121

E-mail: febion@mmtce.co.za

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VOLUME 1
TENDERING PROCEDURES

T1.1

TENDER NOTICE AND INVITATION TO TENDER

PA-04 (EC): NOTICE AND INVITATION TO TENDER

THE DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE INVITES TENDERS FOR:

Project title:	Mpumalanga: Standerton Labour Centre - Construction of a new labour centre		
Reference no:			
Tender no:	NST21/003		
Advertising date:	2021/05/05	Closing date:	2021/06/07
Closing time:	11:00	Validity period:	56days

It is estimated that tenderers should have a CIDB contractor grading designation of **select tender value range select class of construction works** or **select tender value rangeselect class of construction works*** or higher.
** Delete "or select tender value range select class of construction works" where only one class of construction works is applicable*

It is estimated that potentially emerging enterprises should have a CIDB contractor grading designation of **select tender value rangeselect class of construction worksPE** or **select tender value rangeselect class of construction worksPE*** or higher.
** Delete "or select tender value range select class of construction works PE" where only one class of construction works is applicable*

Only tenderers who are responsive to the following responsiveness criteria are eligible to submit tenders. Failure to comply with the criteria stated hereunder shall result in the tender offer being disqualified from further consideration:

<input checked="" type="checkbox"/>	Only those tenderers who satisfy the eligibility criteria stated in the Tender Data may submit tenders.
<input checked="" type="checkbox"/>	Tender offer must be properly received on the tender closing date and time specified on the invitation, fully completed either electronically (if issued in electronic format), or by writing legibly in non-erasable ink. (All as per Standard Conditions of Tender).
<input checked="" type="checkbox"/>	All parts of tender documents submitted must be fully completed and signed where required.
<input type="checkbox"/>	Submission of (DPW-07 EC): Form of Offer and Acceptance.
<input checked="" type="checkbox"/>	Submission of (PA-11): Declaration of Interest and Tenderer's Past Supply Chain Management Practices.
<input checked="" type="checkbox"/>	Submission of applicable (PA-15.1, PA-15.2, PA-15.3): Resolution by the legal entity, or consortium / joint venture, authorising a dedicated person(s) to sign documents on behalf of the firm / consortium / joint venture.
<input checked="" type="checkbox"/>	Submission of (PA-29): Certificate of Independent Bid Determination.
<input checked="" type="checkbox"/>	The tenderer will be required to submit his fully priced Bills of Quantities / Lump Sum Document (complete document inclusive of all parts) together with his tender.
<input checked="" type="checkbox"/>	Submission of (DPW-16 EC): Site Inspection Meeting Certificate as proof of attendance of compulsory site inspection meeting. insert motivation why the site inspection meeting is declared compulsory
<input checked="" type="checkbox"/>	Use of correction fluid is prohibited.
<input checked="" type="checkbox"/>	Registration on National Treasury's Central Supplier Database (CSD).
<input checked="" type="checkbox"/>	Compliance with Pre-qualification criteria for Preferential Procurement as indicated below.
<input checked="" type="checkbox"/>	Submission of proof of registration on National Treasury's Central Supplier Database (CSD) for all sub-contractors for 30% compulsory sub-contracting (attach CSD print out).
<input checked="" type="checkbox"/>	Submission of PA 36 and Annexure C as proof of Compliance to Local Production and Content requirements.

<input checked="" type="checkbox"/>	Submission of (DPW-09EC): Particulars of Tenderer's Projects.
<input type="checkbox"/>	Specify other responsiveness criteria
<input type="checkbox"/>	Specify other responsiveness criteria

Tenderer must comply with the Pre-qualification criteria for Preferential Procurement listed below

<input checked="" type="checkbox"/>	A tenderer having stipulated minimum B-BBEE status level of contributor: <input checked="" type="checkbox"/> Level 1 or <input checked="" type="checkbox"/> Level 2 or <input checked="" type="checkbox"/> Level 3
<input type="checkbox"/>	An EME or QSE
<input checked="" type="checkbox"/>	A tenderer subcontracting a minimum of 30% to: <input checked="" type="checkbox"/> An EME or QSE which is at least 51% owned by black people <input checked="" type="checkbox"/> An EME or QSE which is at least 51% owned by black people who are youth <input checked="" type="checkbox"/> An EME or QSE which is at least 51% owned by black people who are women <input checked="" type="checkbox"/> An EME or QSE which is at least 51% owned by black people with disabilities <input checked="" type="checkbox"/> An EME or QSE which is at least 51% owned by black people living in rural or underdeveloped areas or townships <input checked="" type="checkbox"/> A co-operative which is at least 51% owned by black people <input checked="" type="checkbox"/> An EME or QSE which is at least 51% owned by black people who are Military veterans <input checked="" type="checkbox"/> An EME or QSE;

This bid will be evaluated according to the preferential procurement model in the PPPFA: *(Tick applicable preference point scoring system)*

<input checked="" type="checkbox"/> 80/20 Preference points scoring system	<input type="checkbox"/> 90/10 Preference points scoring system	<input type="checkbox"/> Either 80/20 or 90/10 Preference points scoring system
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In case where below/above R 50 000 000 is selected, the lowest acceptable tender will be used to determine the applicable preference point system. (To be used in instances where the estimate cannot be reasonably determined or when one is unsure as to what the market price may be).

Note: *Functionality will be applied as a prequalification criterion. Such criteria are used to establish minimum requirements where after bids will be evaluated solely on the basis of price and preference.*

Minimum functionality score to qualify for further evaluation:	
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Functionality criteria:	Weighting factor:
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<p>WORKFORCE = 25</p> <p>WORKFORCE 1 = 3 POINTS: The Contractor must provide proof of workforce or ability to provide workforce to execute the project. Contractor to provide a certificate and ID of bricklayer . Original certified copies</p> <p>Bricklayers</p> <p>3 and more = 5 POINTS 2 = 3 POINTS 1 = 2 POINTS 0 or no information = 0 POINTS</p> <p>WORKFORCE 2 = 5 POINTS The Contractor must provide proof of workforce or ability to provide workforce to execute the project. Contractor to provide a certificate and ID for Tiler. Original certified copies</p> <p>Tilers</p> <p>2 or more = 5 POINTS 1 = 3 POINTS 0 or no information = 0 POINTS</p> <p>WORKFORCE 3 = 5 POINTS The Contractor must provide proof of workforce or ability to provide workforce to execute the project. Contractor to provide a certificate and ID for Plumber. Original certified copies</p> <p>Plumbers</p> <p>2 or more = 5 POINTS 1 = 3 POINTS 0 or no information = 0 POINTS</p> <p>WORKFORCE 4 = 3 POINTS The Contractor must provide proof of workforce or ability to provide workforce to execute the project. Contractor to provide a certificate and ID for electrician. Original certified copies.</p> <p>Electricians</p> <p>1 or more = 5 POINTS 0 or no information = 0 POINTS</p> <p>WORKFORCE 5 = 4 POINTS The Contractor must provide proof of workforce or ability to provide workforce to execute the project. Contractor to provide a certificate and ID for HVAC Technian. Original certified copies</p> <p>HVAC</p> <p>3 and more = 5 POINTS 2 = 3 POINTS 1 = 2 POINTS 0 or no information = 0 POINTS</p> <p>WORKFORCE 6 = 5 POINTS The Contractor must provide proof of workforce or ability to provide workforce to execute the project. Contractor to provide a certificate and ID for Painter. Original certified copies</p> <p>Painters</p> <p>3 and more = 5 POINTS 2 = 3 POINTS 1 = 2 POINTS 0 or no information = 0 POINTS</p> <p>Work force</p>	<p>25</p>
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<p>MANAGEMENT 1 - (Current projects) = 25</p> <p>Contractor to provide appointment letters and a fully completed DPW 09 (EC) attached in the Tender Document</p> <p>Completed projects</p> <p>Contractor to provide completion certificate and appointment letters of a similar project and fully completed DPW 09 (EC) attached in the Tender Document</p> <ul style="list-style-type: none"> <input type="checkbox"/> 5 Projects and more with = 5 POINTS <input type="checkbox"/> 4 Projects = 4 POINTS <input type="checkbox"/> 3 Projects = 3 POINTS <input type="checkbox"/> 2 Projects = 2 POINTS <input type="checkbox"/> 1 Project = 1 POINTS <input type="checkbox"/> No project = 0 POINTS 	<p>25</p>
<p>MANAGEMENT 2 - (SITE FOREMAN/AGENT,) = 15 The bidder must attach CV and Qualification of either one of the following disciplines under built environment (Civil, Structural, Mechanical, Electrical, Quantity Surveyor, Construction Project Manager and Architect.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Relevant qualification and more than 8 experience =5 POINTS <input type="checkbox"/> Relevant qualification and 6-7 years' experience =4 POINTS <input type="checkbox"/> Relevant qualification and 4-5 Years' experience =3 POINTS <input type="checkbox"/> Relevant qualification and 2-3 Years' experience =2 POINTS <input type="checkbox"/> Relevant qualification and 1 year experience =1 POINTS <input type="checkbox"/> Relevant qualification and 0 – 11 months Years' experience =0 	<p>15</p>

<p>EQUIPMENT AND PLANT = 10 - Evidence of Plant, equipment and utility vehicle retained by the bidder to execute the project</p> <p>Bidder must attach proof of ownership or confirmation of hire as evidence for the utility vehicles, plant and equipment such as concrete mixers, scaffolding, compactor.</p> <p>Points for ownership</p> <p>CONCRETE MIXER = 2</p> <p>1 Concrete mixer = 5 POINTS 0 Concrete mixer = 0 POINT</p> <p>SCAFFOLDING = 3</p> <p>1 Scaffolding = 5 POINTS 0 Scaffolding = 0 POINT</p> <p>COMPACTOR = 2</p> <p>1 Compactor = 5 POINTS 0 Compactor = 0 POINT</p> <p>UTILITY VEHICLES = 3</p> <p>3 Utility vehicles = 5 POINTS 2 Utility vehicles = 4 POINTS 1 Utility vehicle = 3 POINT 0 Utility vehicle = 0 POINT</p> <p>Points for Hiring</p> <p>CONCRETE MIXER = 2</p> <p>1 Concrete mixer = 3 POINTS 0 Concrete mixer = 0 POINT</p> <p>SCAFFOLDING = 3</p> <p>1 Scaffolding = 3 POINTS 0 Scaffolding = 0 POINT</p> <p>COMPACTOR = 2</p> <p>1 Compactor = 3 POINTS 0 Compactor = 0 POINT</p> <p>UTILITY VEHICLES = 3</p> <p>3 Utility vehicles = 3 POINTS 2 Utility vehicles = 2 POINTS 1 Utility vehicle = 1 POINT 0 Utility vehicle = 0 POINT</p>	<p>10</p>
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FINANCIAL CREDIBILITY = 25 - Provide Bank rating letter from banking institution to justify Credit risk	
<input type="checkbox"/> Grade A = 5 Points <input type="checkbox"/> Grade B = 4 Points <input type="checkbox"/> Grade C = 3 Points <input type="checkbox"/> Grade D = 2 Points <input type="checkbox"/> Grade E = 1 Point or Proof of banking details with No rating Provided	25
Total	100 Points

Collection of tender documents

- Bid documents are available for free download on e-Tender portal www.etenders.gov.za
- Alternatively; Bid documents may be collected during working hours at the following address **Department of Public Works, 9th Floor, Nedbank Centre, Brown Street, Nelspruit, CBD.** A non-refundable bid deposit of R 700 is payable (cash only) on collection of the bid documents.

Site inspection meeting

A pre-tender site inspection meeting will **be** held in respect of this tender.
Attendance of said pre- tender site inspection meeting is **compulsory**

The particulars for said pre- tender site inspection meeting are:

Venue: Standerton Labour Centre

Date: 18/05/2021

Starting time: 11:00

inquiries related to tender documents may be addressed to:

DPW Project Manager:	Mr C Sekatane	Telephone no:	013 753 6312
Cell no:		Fax no:	013 753 1705
E-mail:	cyreal.sekatane@dpw.go.za		

Deposit / return of tender documents

Telegraphic, telephonic, telex, facsimile, electronic and / or late tenders will not be accepted.

Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

All tenders must be completed in non-erasable ink and submitted on the official forms – (forms not to be re-typed).

Notice and Invitation to Tender: PA-04 (EC)

<p>Tender documents may be posted to:</p> <p>The Director-General Department of Public Works and Infrastructure Private Bag X11280 Nelspruit 1200</p> <p>Attention: Procurement section: Room</p>	<p>OR</p>	<p>Deposited in the tender box at:</p> <p>Department of Public Works and Infrastructure Nedbank Centre 30 Brown Street 9th floor</p>
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Compiled by:

Name of Project Manager	Signature	Date

T1.2
TENDER DATA

DPW-03 (EC): TENDER DATA

Project title:	<i>Mpumalanga: Standerton Labour Centre - Construction of a new labour centre</i>
Reference no:	

Tender no:	<i>NST21/003</i>	Closing date:	<i>2021/06/07</i>
Closing time:	<i>11:00</i>	Validity period:	<i>56 days</i>

Clause number:	
	<p>The conditions of tender are the Standard Conditions of Tender as contained in Annex C of the CIDB Standard for Uniformity in Construction Procurement as per Government Notice No. 423 published in Government Gazette No. 42622 of 8 August 2019 and as amended from time to time. (see www.cidb.org.za).</p> <p>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.</p> <p>Each item of data given below is cross-referenced to the clause marked "C" in the above mentioned Standard Conditions of Tender.</p>
C.1.1	The employer is the Government of the Republic of South Africa in its Department of Public Works and Infrastructure.
C.1.2	<p>For this contract the three volume approach is adopted.</p> <p>This procurement document has been formatted and compiled under the headings as contained in the CIDB's "Standard for Uniformity in Construction Procurement."</p> <p>The three volume procurement document issued by the employer comprises the following:</p> <p>Volume 1: Tendering procedures T1.1 - Notice and invitation to tender (PA-04 EC) T1.2 - Tender data (DPW-03 EC)</p> <p>Volume 2: Returnable documents T2.1 - List of returnable documents (PA-09 EC) C1.1 - Form of offer and acceptance (DPW-07 EC) C2.2 - Bills of Quantities / Lump sum document (if a returnable document) T2.2 - Returnable schedules</p> <p>Volume 3: Contract Part C1: Agreement and contract data C1.2 - Contract data (DPW-04 EC or DPW-05 EC) C1.3 - Form of guarantee (DPW-10.1 EC / DPW-10.3EC or DPW-10.2 EC/DPW-10.4 EC)</p> <p>Part C2: Pricing data C2.1 - Pricing instructions (PG-02.2 EC or PG-02.1EC) C2.2 - Bills of Quantities / Lump sum document (if not a returnable document)</p> <p>Part C3: Scope of work C3 - Scope of work (PG-01.2 EC or PG-01.1EC)</p> <p>Part C4: Site information C4 - Site information (PG-03.2 EC or PG03.1EC)</p>

Tender no:

C.1.4	The Employer's agent is:									
	Name:	Mr C Sekatane								
	Capacity:	Departmental Project Manager								
	Address:	Private bag X11280, Nelspruit 1200								
	Tel:	013 753 6312								
	Fax:	013 753 1705								
	E-mail:	cyreal.sekatane@dpw.gov.za								
C.2.1 C.3.11	<p>A. <u>ELIGIBILITY IN RESPECT OF CIDB REGISTRATION:</u></p> <p>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 (* tenderers who are capable of being so registered, or who have applied for registration but have not yet received confirmation of such registration, must provide, <u>with this tender</u>, acceptable documentary proof thereof):</p> <p>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 a select class of construction works or select class of construction works** class of construction work; and</p> <p>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</p> <p>Joint ventures are eligible to submit tenders provided that:</p> <ol style="list-style-type: none"> every member of the joint venture is registered with the CIDB; the lead partner has a contractor grading designation in the select class of construction works or select class of construction works** class of construction work; and 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, or a value determined in accordance with Regulation 25 (1B) or 25 (7A) of the Construction Industry Development Regulations for a select class of construction works or select class of construction works** class of construction work <p>** Delete "or select tender value range select class of construction works" where only one class of construction works is applicable</p> <p>A contract will be entered into with a tenderer who has in his employ management and supervisory staff satisfying the requirements of the scope of work for labour intensive competencies for supervisory and management staff. - select</p> <p>B. <u>INDICATE THE FUNCTIONALITY WEIGHTING APPLICABLE TO THIS BID:</u></p> <p>Note: Functionality will only be applied as a prequalification criterion. Such criteria are used to establish minimum requirements where after bids will be evaluated solely on the basis of price and preference.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Functionality Criteria</th> <th style="text-align: left;">Weighting Factor</th> </tr> </thead> <tbody> <tr> <td>WORKFORCE = 25</td> <td>25</td> </tr> <tr> <td>WORKFORCE 1 = 3 POINTS: The Contractor must provide proof of workforce or ability to provide workforce to execute the project. Contractor to provide a certificate and ID of bricklayer . Original certified copies</td> <td></td> </tr> <tr> <td>Bricklayers</td> <td></td> </tr> </tbody> </table>		Functionality Criteria	Weighting Factor	WORKFORCE = 25	25	WORKFORCE 1 = 3 POINTS: The Contractor must provide proof of workforce or ability to provide workforce to execute the project. Contractor to provide a certificate and ID of bricklayer . Original certified copies		Bricklayers	
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	<p>MANAGEMENT 1 - (Current projects) = 25</p> <p>Contractor to provide appointment letters and a fully completed DPW 09 (EC) attached in the Tender Document</p> <p>Completed projects</p>	<p>25</p>



<p>Contractor to provide completion certificate and appointment letters of a similar project and fully completed DPW 09 (EC) attached in the Tender Document</p> <ul style="list-style-type: none"> <input type="checkbox"/> 5 Projects and more with = 5 POINTS <input type="checkbox"/> 4 Projects = 4 POINTS <input type="checkbox"/> 3 Projects = 3 POINTS <input type="checkbox"/> 2 Projects = 2 POINTS <input type="checkbox"/> 1 Project = 1 POINTS <input type="checkbox"/> No project = 0 POINTS 	
<p>MANAGEMENT 2 - (SITE FOREMAN/AGENT,) = 15 The bidder must attach CV and Qualification of either one of the following disciplines under built environment (Civil, Structural, Mechanical, Electrical, Quantity Surveyor, Construction Project Manager and Architect.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Relevant qualification and more than 8 experience =5 POINTS <input type="checkbox"/> Relevant qualification and 6-7 years' experience =4 POINTS <input type="checkbox"/> Relevant qualification and 4-5 Years' experience =3 POINTS <input type="checkbox"/> Relevant qualification and 2-3 Years' experience =2 POINTS <input type="checkbox"/> Relevant qualification and 1 year experience =1 POINTS <input type="checkbox"/> Relevant qualification and 0 – 11 months Years' experience =0 	15
<p>EQUIPMENT AND PLANT = 10 - Evidence of Plant, equipment and utility vehicle retained by the bidder to execute the project</p> <p>Bidder must attach proof of ownership or confirmation of hire as evidence for the utility vehicles, plant and equipment such as concrete mixers, scaffolding, compactor.</p> <p>Points for ownership</p> <p>CONCRETE MIXER = 2</p> <ul style="list-style-type: none"> 1 Concrete mixer = 5 POINTS 0 Concrete mixer = 0 PONIT <p>SCAFFOLDING = 3</p> <ul style="list-style-type: none"> 1 Scaffolding = 5 POINTS 0 Scaffolding = 0 POINT <p>COMPACTOR = 2</p> <ul style="list-style-type: none"> 1 Compactor = 5 POINTS 0 Compactor = 0 POINT <p>UTILITY VEHICLES = 3</p> <ul style="list-style-type: none"> 3 Utility vehicles = 5 POINTS 2 Utility vehicles = 4 POINTS 1 Utility vehicle = 3 POINT 0 Utility vehicle = 0 POINT 	10



<p>Points for Hiring</p> <p>CONCRETE MIXER = 2</p> <p>1 Concrete mixer = 3 POINTS 0 Concrete mixer = 0 POINT</p> <p>SCAFFOLDING = 3</p> <p>1 Scaffolding = 3 POINTS 0 Scaffolding = 0 POINT</p> <p>COMPACTOR = 2</p> <p>1 Compactor = 3 POINTS 0 Compactor = 0 POINT</p> <p>UTILITY VEHICLES = 3</p> <p>3 Utility vehicles = 3 POINTS 2 Utility vehicles = 2 POINTS 1 Utility vehicle = 1 POINT 0 Utility vehicle = 0 POINT</p>	
<p>FINANCIAL CREDIBILITY = 25 - Provide Bank rating letter from banking institution to justify Credit risk</p> <p><input type="checkbox"/> Grade A = 5 Points <input type="checkbox"/> Grade B = 4 Points <input type="checkbox"/> Grade C = 3 Points <input type="checkbox"/> Grade D = 2 Points <input type="checkbox"/> Grade E = 1 Point or Proof of banking details with No rating Provided</p>	<p>25</p>
<p>Total</p>	<p>100 Points</p>
<p><i>(Weightings will be multiplied by the scores allocated during the evaluation process to arrive at the total functionality points)</i></p>	
<p>Minimum functionality score to qualify for further evaluation:</p>	
<p><i>(Total minimum qualifying score for functionality is 50 Percent).</i></p>	
<p><u>C ELIGIBILITY IN RESPECT OF RISK TO EMPLOYER:</u></p>	
<p>Provisions applicable to Evaluation Method 1 and 2:</p>	
<p>Tender offers will be evaluated by an Evaluation Committee based on the technical and commercial risk criteria listed hereunder. Each criterion carries the same weight / importance and will be evaluated individually based on reports presented to the Evaluation Committee by the Professional Team appointed on the project. A tender offer will be declared non-responsive and removed from any further evaluation if any one criterion is found to present an unacceptable risk to the Employer.</p>	
<p>In order for the evaluation reports to be prepared by the Professional Team, the Tenderer is obliged to provide comprehensive information on form DPW-09 (EC). Failure to complete the said form will cause the tender to be declared non-responsive and removed from any further consideration. The Employer reserves the right to request additional information over and above that which is provided by the Tenderer on said form. The information must be provided by the Tenderer within the stipulated time as determined by the Project Manager, failing which the tender offer will <i>mutatis mutandis</i> be declared non-responsive.</p>	
<p>C.1. Technical risks:</p>	
<p>C.1.1 Criterion 1: Quality of current and previous work</p>	
<p>Quality of current and previous work performed by the Tenderer in the class of construction work stated above as per the evaluation report prepared by the Professional Team, based on its research and</p>	

	<p>inspection of a representative sample of the Tenderer's current and previous work as reflected on form DPW-09 (EC), as well as, if necessary, of any additional work executed by the Tenderer, not reflected on form DPW-09 (EC).</p> <p>C.1.2 Criterion 2: Contractual commitment Adherence to contractual commitments, demonstrated by the Tenderer in the performance on current and previous work, evaluated in terms of:</p> <p>a) the level of progress on current projects in relation to the project programme or, if such is not available/applicable, to the contractual construction period in general;</p> <p>b) the degree to which previous projects have been completed within the contractual completion periods and/or extensions thereto; and</p> <p>c) general contract administration, i.e. compliance with contractual aspects such as laws and regulations, insurances, security, written contract instructions, subcontractors, time delay claims, etc as can generally be expected in standard/normal conditions of contract.</p> <p>C.2 Commercial risks:</p> <p>The level to which agreement with the Tenderer is reached in respect of the adjustment of rates which are considered to be imbalanced or unreasonable and to eliminate errors or discrepancies, without changing the tendered total price, over and above the correction of arithmetical errors as provided for in C.3.9.</p>
C.2.7	For particulars regarding a pre-tender site inspection meeting, see Notice and Invitation to Tender T1.1
C.2.12	<p>If a tenderer wishes to submit an alternative tender offer, the only criteria permitted for such alternative tender offer is that it demonstrably satisfies the Employer's standards and requirements. A tenderer may submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted. Provided that the tenderer's main tender offer is according to specification and would under normal circumstances be recommended for acceptance, his alternative tender offer may also be considered for the purpose of the award of the contract.</p> <p>Calculations, drawings and all other pertinent technical information and characteristics as well as modified or proposed Pricing Data must be submitted with the alternative tender offer to enable the Employer to evaluate the efficacy of the alternative and its principal elements, to take a view on the degree to which the alternative complies with the Employer's standards and requirements and to evaluate the acceptability of the pricing proposals. Calculations must be set out in a clear and logical sequence and must clearly reflect all design assumptions. Pricing Data must reflect all assumptions in the development of the pricing proposal.</p> <p>Acceptance of an alternative tender offer will mean acceptance in principle of the offer. It will be an obligation of the contract for the tenderer, in the event that the alternative is accepted, to accept full responsibility and liability that the alternative offer complies in all respects with the Employer's standards and requirements.</p> <p>The modified Pricing Data must include an amount equal to 5% of the amount tendered for the alternative offer to cover the Employer's costs of confirming the acceptability of the detailed design before it is constructed.</p> <p>Alternative tender offer permitted: Yes <input type="checkbox"/> No <input type="checkbox"/></p>
C.2.13.2	The list of Returnable Documents identifies which of the documents a tenderer must complete when submitting a tender offer. The tenderer must submit his tender offer by completing the Returnable Documents, signing the "Offer" section in the "Form of Offer and Acceptance" and delivering the Returnable Documents back to the Department.
C.2.13.5	The Employer's address for delivery of tender offers and identification details to be shown on each tender offer package are as per Notice and Invitation to Tender T1.1.
C.2.13.6 C.3.5	A two-envelope procedure will not be followed.
C.2.15	The closing time for submission of tender offers is as per Notice and Invitation to Tender T1.1.
C.2.16	The tender offer validity period is as per Notice and Invitation to Tender T1.1.
C2.16.3	Omit the wording of the last sentence for those projects which are subject to CPAP
C.2.18	The tenderer will be required to submit his fully priced Bills of Quantities / Lump Sum Document (complete document inclusive of all parts):

	<input type="checkbox"/> Together with his tender; or <input type="checkbox"/> Within fourteen (14) calendar days of the date on which he has been requested to do so prior to the award of the contract.
C.2.19	Access shall be provided for inspections, tests and analysis as may be required by the Employer.
C.3.4.1 C.3.4.2	The location for opening of the tender offers, immediately after the closing time thereof shall be at: <i>Insert location</i>
C.3.8	The words “responsive tender” and “acceptable tender” shall be construed to have the same meaning.
C.3.9.3	Omit the wording and replace with the following: “Notify the tenderer of all errors, omissions and/or rate imbalances that are identified in the tender offer and request the tenderer to, within a stipulated time, accept the total of prices as corrected in accordance with C.3.9.4.”
C.3.9.4	Omit the wording of the first sentence and replace with the following: “In cases where tender offers contain errors, omissions and/or rate imbalances, these are to be corrected as follows:”
C.3.9.4	Add sub paragraph c) to C.3.9.4, as follows: “c) If the tenderer does not accept the corrected tender offer, or cannot reach consensus with the Employer on a corrected tender offer, the tender is to be classified as not acceptable/non responsive and removed from further contention.”
C.3.11.1	The procedure for the evaluation of responsive tenders is Method 2: Financial Offer and Preference.
C.3.13	Add the following to sub paragraph a), as follows: 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, 2004 (Act No. 12 of 2004) as a person prohibited from doing business with the public sector;
C.3.17	Provide to the successful tenderer one copy of the signed contract document.

VOLUME 2
RETURNABLE DOCUMENTS

T2.1

LIST OF RETURNABLE DOCUMENTS

PA-09 (EC): LIST OF RETURNABLE DOCUMENTS

Project title:	<i>Mpumalanga: Standerton Labour Centre - Construction of a new labour centre</i>		
Tender / Quote no:	NST21/003	Reference no:	
Receipt Number:			

1. RETURNABLE DOCUMENTS REQUIRED FOR TENDER EVALUATION PURPOSES

Note: Failure to submit the applicable documents will result in the tender offer being disqualified from further consideration.

Tender document name	Number of pages issued	Returnable document
Form of Offer and Acceptance (DPW-07 EC)	4 Pages	Yes
Declaration of Interest and Tenderer's Past Supply Chain Management Practices (PA-11)	4 Pages	Yes
Submission of (PA-29): Certificate of Independent Bid Determination	4 Pages	Yes
Resolution of Board of Directors (PA-15.1) (<i>if applicable</i>)	1 Page	Yes
Resolution of Board of Directors to enter into Consortia or JV's (PA-15.2) (<i>if applicable</i>)	2 Pages	Yes
Special Resolution of Consortia or JV's (PA-15.3) (<i>if applicable</i>)	3 Pages	Yes
Site Inspection Meeting Certificate (DPW-16 EC) (<i>if applicable</i>)	1 Page	Yes
Particulars of Tenderer's Projects (DPW-09 EC)		
BBBEE Certificate: only sworn affidavit certificate signed by the commissioner of oath, SANAS and DTI verification certificate will be accepted.		Yes

2. ADDITIONAL RETURNABLE DOCUMENTS REQUIRED FOR TENDER EVALUATION PURPOSES

Note: Failure to submit the applicable documents will result in the Tenderer having to submit same upon request within a stipulated time and if not complied with, will result in the tender offer being disqualified from further consideration. [See also F.2.18 of the Standard Conditions of Tender]

Tender document name	Number of pages issued	Returnable document
Any <u>additional</u> information required to complete a risk assessment (<i>if applicable</i>)	-	Yes

3. RETURNABLE DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT

Note: Failure to submit the applicable documents will result in the Tenderer having to submit same upon request within a stipulated time and if not complied with, will result in the tender offer being disqualified from further consideration. [See also F.2.18 of the Standard Conditions of Tender]

Tender document name	Number of pages issued	Returnable document
Record of Addenda to tender documents (DPW-21 EC) (<i>if applicable</i>)	1 Page	Yes
Schedule of proposed sub-contractors (DPW-15 EC) (<i>if applicable</i>)	1 Page	Yes
Particulars of Electrical Contractor (DPW-22 EC) (<i>if applicable</i>)	1 Page	Yes

Mechanical / Electrical / Security Work material and equipment schedules (if applicable)	Pages	Yes
Schedule for Imported Materials and Equipment (DPW-23 EC) (if applicable)	1 Page	Yes

4. OTHER DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT

(Insert a tick in the "Returnable document" column to indicate which documents must be returned with the tender)

Note: Failure to submit the applicable documents will result in the tender offer being disqualified from further consideration.

Tender document name	Number of pages issued	Returnable document
Priced Bills of Quantities / Lump Sum Document (complete document inclusive of all parts)	Pages	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
BBBEE Certificate: only sworn affidavit certificate by the commissioner of oath, SANAS and DTI verification certificate will be accepted.	Pages	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>insert document name</i>	Pages	<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>insert document name</i>	Pages	<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>insert document name</i>	Pages	<input type="checkbox"/> Yes <input type="checkbox"/> No

5. ADDITIONAL INFORMATION THAT MAY BE REQUIRED FOR TENDER EVALUATION PURPOSES

Legal Status of Tendering Entity: If the Tendering Entity is:	Documentation to be submitted with the tender, or which may be required during the tender evaluation:
a. A close corporation, incorporated prior to 1 May 2011 under the Close Corporations Act, 1984 (Act 69 of 1984, as amended)	Copies of the Founding Statement – CK1
b. A profit company duly registered as a private company. [including a profit company that meets the criteria for a private company, whose Memorandum of Incorporation states that the company is a personal liability company in terms of Section 8(2)(c) of the Companies Act, 2008 (Act 71 of 2008, as amended)].	Copies of: i. Certificate of Incorporation – CM1; ii. Shareholding Certificates of all Shareholders of the company, plus a signed statement of the company's Auditor, certifying each Shareholder's ownership / shareholding percentage relative to the total; and/or iii. Memorandum of Incorporation in the case of a personal liability company.
c. A profit company duly registered as a private company in which any, or all, shares are held by one or more other close corporation(s) or company(ies) duly registered as profit or non-profit company(ies).	Copies of documents referred to in a. and/or b. above in respect of all such close corporation(s) and/or company(ies).
d. A profit company duly registered as a public company.	Copy of Certificate of Incorporation – CM1, and a signed statement of the company's Secretary or Auditor confirming that the company is a public company.

<p>e. A non-profit company, incorporated in terms of Section 10 and Schedule 1 of the Companies Act, 2008 (Act 71 of 2008, as amended).</p>	<p>Copies of: i the Founding Statement – CK1; and ii the Memorandum of Incorporation setting out the object of the company, indicating the public benefit, cultural or social activity, or communal or group interest.</p>
<p>f. A natural person, sole proprietor or a Partnership</p>	<p>Copy(ies) of the Identity Document(s) of: i. such natural person/ sole proprietor, or each of the Partners to the Partnership.</p>
<p>g. A Trust</p>	<p>Deed of Trust duly indicating names of the Trustee(s) and Beneficiary (ies) as well as the purpose of the Trust and the mandate of the Trustees.</p>

Signed by the Tenderer

Name of representative	Signature	Date

CI.1

FORM OF OFFER AND ACCEPTANCE

DPW-07 (EC): FORM OF OFFER AND ACCEPTANCE

Project title:	<i>Mpumalanga: Standerton Labour Centre - Construction of a new labour centre</i>		
Tender no:	NST21/003	Reference no:	

OFFER

The Employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of:

Insert broad description of the works.

The Tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the Tenderer, deemed to be duly authorized, signing this part of this form of offer and acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the contract data.

THE TOTAL OFFER INCLUSIVE OF ALL APPLICABLE TAXES (All applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies) IS :

Rand (in words):	
Rand in figures:	R

The award of the tender may be subjected to further price negotiation with the preferred tenderer(s). The negotiated and agreed price will be considered for acceptance as **a firm and final offer.**

This offer may be accepted by the Employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the tender data, whereupon the Tenderer becomes the party named as the Contractor in the conditions of contract identified in the contract data.

THIS OFFER IS MADE BY THE FOLLOWING LEGAL ENTITY: (cross out block which is not applicable)

Company or Close Corporation: And: Whose Registration Number is: And: Whose Income Tax Reference Number is: CSD supplier number:.....	OR	Natural Person or Partnership: Whose Identity Number(s) is/are: Whose Income Tax Reference Number is/are: CSD supplier number:.....
--	-----------	--

AND WHO IS (if applicable):

Trading under the name and style of:
--

AND WHO IS:

*Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

**Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention"
 For Internal & External Use

Represented herein, and who is duly authorised to do so, by: Mr/Mrs/Ms: In his/her capacity as:	Note: A Resolution / Power of Attorney, signed by all the Directors / Members / Partners of the Legal Entity must accompany this Offer, authorising the Representative to make this offer.
---	---

Tender no:

SIGNED FOR THE TENDERER:

Name of representative	Signature	Date

WITNESSED BY:

Name of witness	Signature	Date

This Offer is in respect of: (Please indicate with an "X" in the appropriate block)

- The official documents
- The official alternative

Own alternative (only if documentation makes provision therefore) ..

SECURITY OFFERED:

- (a) the Tenderer accepts that in respect of contracts up to R1 million, a payment reduction** of 5% of the contact value (excluding VAT) will be applicable and will be deducted by the Employer in terms of the applicable conditions of contract
- (b) in respect of contracts above R1 million, the Tenderer offers to provide security as indicated below:
- (1) cash deposit of 10 % of the Contract Sum (excluding VAT) Yes No
 - (2) variable construction guarantee of 10 % of the Contract Sum (excluding VAT) Yes No
select
 - (3) payment reduction of 10% of the value certified in the payment certificate (excluding VAT) Yes No
 - (4) cash deposit of 5% of the Contract Sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT) Yes No
 - (5) fixed construction guarantee of 5% of the Contract Sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT) Yes No
select

NB. Guarantees submitted must be issued by either an insurance company duly registered in terms of the Short-Term Insurance Act, 1998 (Act 35 of 1998) or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.

The Tenderer elects as its *domicilium citandi et executandi* in the Republic of South Africa, where any and all legal notices may be served, as (physical address):

.....

Other Contact Details of the Tenderer are:

Telephone No..... Cellular Phone No.

*Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

**Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention" Page 2 of 4
 For Internal & External Use

Fax No

Postal address

Banker Branch.....

Registration No of Tenderer at Department of Labour

CIDB Registration Number:

Tender no:

ACCEPTANCE

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
 Part 3 Scope of work.
 Part 4 Site information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 4 above.

Deviations from and 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.

The terms of the contract, are contained in:

- Part 1 Agreement and contract data, (which includes this agreement)
- Part 2 Pricing data

amendments to the documents listed in the tender data and any addenda thereto as listed in the tender schedules 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.

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, if delivered by hand on the day of delivery, or if delivered by courier within two working days after submission by the Employer to the courier services for a door-to-door delivery to the Tenderer, 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 cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

For the Employer:

Name of signatory	Signature	Date

Name of Organisation:	Department of Public Works
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*Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

**Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention"
 For Internal & External Use

Address of Organisation:	
---------------------------------	--

WITNESSED BY:

Name of witness	Signature	Date

Tender no:

Schedule of Deviations

1.1.1. Subject:	
Detail:	
1.1.2. Subject:	
Detail:	
1.1.3. Subject:	
Detail:	
1.1.4. Subject:	
Detail:	
1.1.5. Subject:	
Detail:	
1.1.6. Subject:	
Detail:	

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 tender 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.

*Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

**Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention"
 For Internal & External Use

T2.2

RETURNABLE DOCUMENTS REQUIRED FOR TENDER

T2.2.1

DECLARATION OF INTEREST AND BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

¹ "State" means –

- (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- (b) any municipality or municipal entity;
- (c) provincial legislature;
- (d) national Assembly or the national Council of provinces; or
- (e) Parliament.

² "Shareholder" means –

- (a) a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercise control over the enterprise

3.7 Are you or any person connected with the bidder presently employed by the state? YES NO

3.7.1 If so, furnish the following particulars:

Name of person / director /trustees/shareholder/ member:.....

Name of state institution at which you or the person is connected to the bidder is employed

Position occupied in the state institution:.....

Any other particulars:

3.8 Did you or your spouse, or any of the company's directors / trustees/shareholders / members or their spouses conduct business with the state in the previous twelve months? YES NO

3.8.1 If so, furnish particulars:.....

3.9 Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid? YES NO

3.9.1 If so, furnish particulars.

3.10 Are you, or any person connected with the bidder, aware of any relationship (family, friend, other) between the bidder and any person employed by the state who may be involved with the

evaluation and or adjudication of this bid? YES NO

3.10.1 If so, furnish particulars.

.....

3.11 Do you or any of the directors /trustees/shareholders/ members of the company have any interest in any other related companies whether or not they are bidding for this contract? YES NO

3.11.1 If so, furnish particulars:

.....

4. Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	Personal Tax Reference Number	State Employee Number / Pernal Number

5. DECLARATION OF TENDERER / BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

5.1	<i>Is the tenderer / bidder or any of its directors listed on the National Treasury's database as companies or persons prohibited from doing business with the public sector?</i> (Companies or persons who are listed on this database were informed in writing of this restriction by the National Treasury after the audi alteram partem rule was applied).	<input type="checkbox"/> Yes	<input type="checkbox"/> No
5.2	If so, furnish particulars:		

5.3	<p><i>Is the tenderer / 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)?</i></p> <p>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.</p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
5.4	<i>If so, furnish particulars:</i>		
5.5	<p><i>Was the tenderer / bidder or any of its directors convicted by a court of law (including a court outside of the Republic of South Africa) for fraud or corruption during the past five years?</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
5.6	<i>If so, furnish particulars:</i>		
5.7	<p><i>Was any contract between the tenderer / bidder and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?</i></p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
5.8	<i>If so, furnish particulars:</i>		

6. CERTIFICATION

I the undersigned (full name) _____ certify that the information furnished on this declaration form is 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.

Name of Tenderer / bidder	Signature	Date	Position

This form has been aligned with SBD4 and SBD 8

T2.2.2

**CERTIFICATION OF INDEPENDENT BID
DETERMINATION**

PA- 29: CERTIFICATION OF INDEPENDENT BID DETERMINATION

Project title:	Mpumalanga: Standerton Labour Centre - Construction of a new labour centre		
Bid no:	NST21/003	Reference no:	

INTRODUCTION

1. This PA-29 [Certificate of Independent Bid Determination] 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. Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
 - a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
 - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
4. This form (PA-29) 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 (PA-29) 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:

(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.

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

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.

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.

Name of Bidder	Signature	Date	Position

T2.2.3

RESOLUTION OF BOARD DIRECTORS

PA-15.1: RESOLUTION OF BOARD OF DIRECTORS

RESOLUTION of a meeting of the Board of *Directors / Members / Partners of:

_____ (legally correct full name and registration number, if applicable, of the Enterprise)

Held at _____ (place)

on _____ (date)

RESOLVED that:

- The Enterprise submits a Bid / Tender to the Department of Public Works in respect of the following project:

_____ (project description as per Bid / Tender Document)

Bid / Tender Number: _____ (Bid / Tender Number as per Bid / Tender Document)

- *Mr/Mrs/Ms: _____

in *his/her Capacity as: _____ (Position in the Enterprise)

and who will sign as follows: _____

be, and is hereby, authorised to sign the Bid / Tender, and any and all other documents and/or correspondence in connection with and relating to the Bid / Tender, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid / Tender to the Enterprise mentioned above.

	Name	Capacity	Signature
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

15			
16			
17			
18			
19			
20			

The bidding enterprise hereby absolves the Department of Public Works from any liability whatsoever that may arise as a result of this document being signed.

Note:

- * Delete which is not applicable.
- NB:** This resolution must, where possible, be signed by all the Directors / Members / Partners of the Bidding Enterprise.
- In the event that paragraph 2 cannot be complied with, the resolution must be signed by Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (attach proof of shareholding / ownership hereto).
- Directors / Members / Partners of the Bidding Enterprise may alternatively appoint a person to sign this document on behalf of the Bidding Enterprise, which person must be so authorized by way of a duly completed power of attorney, signed by the Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (proof of shareholding / ownership and power of attorney are to be attached hereto).
- Should the number of Directors / Members / Partners exceed the space available above, additional names and signatures must be supplied on a separate page.

ENTERPRISE STAMP

T2.2.4

RESOLUTION OF BOARD OF DIRECTORS TO ENTER INTO CONSORTIA OR JOINT VENTURES

PA-15.2: RESOLUTION OF BOARD OF DIRECTORS TO ENTER INTO CONSORTIA OR JOINT VENTURES

RESOLUTION of a meeting of the Board of *Directors / Members / Partners of:

(Legally correct full name and registration number, if applicable, of the Enterprise)

Held at _____ *(place)*

on _____ *(date)*

RESOLVED that:

1. The Enterprise submits a Bid /Tender, in consortium/Joint Venture with the following Enterprises:

(List all the legally correct full names and registration numbers, if applicable, of the Enterprises forming the Consortium/Joint Venture)

to the Department of Public Works in respect of the following project:

(Project description as per Bid /Tender Document)

Bid / Tender Number: _____ *(Bid / Tender Number as per Bid / Tender Document)*

2. *Mr/Mrs/Ms: _____

in *his/her Capacity as: _____ *(Position in the Enterprise)*

and who will sign as follows: _____

be, and is hereby, authorised to sign a consortium/joint venture agreement with the parties listed under item 1 above, and any and all other documents and/or correspondence in connection with and relating to the consortium/joint venture, in respect of the project described under item 1 above.

3. The Enterprise accepts joint and several liability with the parties listed under item 1 above for the due fulfilment of the obligations of the joint venture deriving from, and in any way connected with, the Contract to be entered into with the Department in respect of the project described under item 1 above.
4. The Enterprise chooses as its *domicilium citandi et executandi* for all purposes arising from this joint venture agreement and the Contract with the Department in respect of the project under item 1 above:

Physical address: _____

_____ (code)

Postal Address: _____

 _____ (code)

Telephone number: _____

Fax number: _____

	Name	Capacity	Signature
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

The bidding enterprise hereby absolves the Department of Public Works from any liability whatsoever that may arise as a result of this document being signed

Note:

- * Delete which is not applicable.
- NB:** This resolution must, where possible, be signed by all the Directors / Members / Partners of the Bidding Enterprise.
- In the event that paragraph 2 cannot be complied with, the resolution must be signed by Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (attach proof of shareholding / ownership hereto).
- Directors / Members / Partners of the Bidding Enterprise may alternatively appoint a person to sign this document on behalf of the Bidding Enterprise, which person must be so authorized by way of a duly completed power of attorney, signed by the Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (proof of shareholding / ownership and power of attorney are to be attached hereto).
- Should the number of Directors / Members / Partners exceed the space available above, additional names and signatures must be supplied on a separate page.

ENTERPRISE STAMP

T2.2.5

SPECIAL RESOLUTION OF CONSORTIA OR JOINT VENTURES

PA-15.3: SPECIAL RESOLUTION OF CONSORTIA OR JOINT VENTURES

RESOLUTION of a meeting of the duly authorised representatives of the following legal entities who have entered into a consortium/joint venture to jointly bid for the project mentioned below: *(legally correct full names and registration numbers, if applicable, of the Enterprises forming a Consortium/Joint Venture)*

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

Held at _____ *(place)*

on _____ *(date)*

RESOLVED that:

RESOLVED that:

- A. The above-mentioned Enterprises submit a Bid in Consortium/Joint Venture to the Department of Public Works in respect of the following project:

(Project description as per Bid /Tender Document)

Bid / Tender Number: _____ *(Bid / Tender Number as per Bid /Tender Document)*

B. *Mr/Mrs/Ms: _____

in *his/her Capacity as: _____ (Position in the Enterprise)

and who will sign as follows: _____

be, and is hereby, authorised to sign the Bid, and any and all other documents and/or correspondence in connection with and relating to the Bid, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid to the Enterprises in Consortium/Joint Venture mentioned above.

C. The Enterprises constituting the Consortium/Joint Venture, notwithstanding its composition, shall conduct all business under the name and style of:

D. The Enterprises to the Consortium/Joint Venture accept joint and several liability for the due fulfilment of the obligations of the Consortium/Joint Venture deriving from, and in any way connected with, the Contract entered into with the Department in respect of the project described under item A above.

E. Any of the Enterprises to the Consortium/Joint Venture intending to terminate the consortium/joint venture agreement, for whatever reason, shall give the Department 30 days written notice of such intention. Notwithstanding such decision to terminate, the Enterprises shall remain jointly and severally liable to the Department for the due fulfilment of the obligations of the Consortium/Joint Venture as mentioned under item D above.

F. No Enterprise to the Consortium/Joint Venture shall, without the prior written consent of the other Enterprises to the Consortium/Joint Venture and of the Department, cede any of its rights or assign any of its obligations under the consortium/joint venture agreement in relation to the Contract with the Department referred to herein.

G. The Enterprises choose as the *domicilium citandi et executandi* of the Consortium/Joint Venture for all purposes arising from the consortium/joint venture agreement and the Contract with the Department in respect of the project under item A above:

Physical address: _____

_____ (code)

Postal Address: _____

_____ (code)

Telephone number: _____

Fax number: _____

	Name	Capacity	Signature
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

The bidding enterprise hereby absolves the Department of Public Works from any liability whatsoever that may arise as a result of this document being signed.

Note:

1. * Delete which is not applicable.
2. **NB:** This resolution must be signed by all the Duly Authorised Representatives of the Legal Entities to the consortium/joint venture submitting this tender, as named in item 2 of Resolution PA-15.2.
3. Should the number of the Duly Authorised Representatives of the Legal Entities joining forces in this tender exceed the space available above, additional names, capacity and signatures must be supplied on a separate page.
4. Resolution PA-15.2, duly completed and signed, from the separate Enterprises who participate in this consortium/joint venture, must be attached to this Special Resolution (PA-15.3).

T2.2.6

SITE INSPECTION CERTIFICATE

DPW-16 (EC): SITE INSPECTION MEETING CERTIFICATE

Project title:	<i>Mpumalanga: Standerton Labour Centre - Construction of a new labour centre</i>		
Tender no:	<i>NST21/003</i>	Reference no:	
Closing date:	<i>2021/06/07</i>		

This is to certify that I, _____ representing
 _____ in the company of
 _____ visited the site on: ***insert date***

I have made myself familiar with all local conditions likely to influence the work and the cost thereof. I further certify that I am satisfied with the description of the work and explanations given at the site inspection meeting and that I understand perfectly the work to be done, as specified and implied, in the execution of this contract.

Name of Tenderer	Signature	Date

Name of DPW Representative	Signature	Date

T2.2.7

**PREFERENCE POINTS CLAIM FORM IN TERMS OF
THE PREFERENTIAL PROCUREMENT
REGULATIONS 2011**

**PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL
 PROCUREMENT REGULATIONS 2017**

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

1. GENERAL CONDITIONS

1.1. The following preference point systems are applicable to all bids:

- 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.

- a) The value of this bid is estimated to **exceed/not exceed** R50 000 000 (all applicable taxes included) and therefore the preference point system shall be applicable; or
- b) Either the 80/20 or 90/10 preference point system will be applicable to this tender (*delete whichever is not applicable for this tender*).

1.3. Points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contributor.

1.4. The maximum points for this bid are allocated as follows:

	POINTS
PRICE	
B-BBEE STATUS LEVEL OF CONTRIBUTOR	
Total points for Price and B-BBEE must not exceed	100

1.5. Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.6. The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

1.1. In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

5. BID DECLARATION

1.1. Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

1.1. B-BBEE Status Level of Contributor: . =(maximum of 10 or 20 points)
(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

7. SUB-CONTRACTING

1.1. Will any portion of the contract be sub-contracted?

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

7.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted.....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....
- iv) Whether the sub-contractor is an EME or QSE

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations, 2017:

Designated Group: An EME or QSE which is at least 51% owned by:	EME √	QSE √
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

8. DECLARATION WITH REGARD TO COMPANY/FIRM

1.1. Name of company/firm:.....

1.2. VAT registration number:.....

1.3. Company registration number:.....

1.4. TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One person business/sole propriety
- Close corporation
- Company
- (Pty) Limited

[TICK APPLICABLE BOX]

1.5. DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

.....

.....

1.6. COMPANY CLASSIFICATION

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

1.7. Total number of years the company/firm has been in business:.....

1.8. I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in

paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we 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 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
 - (a) disqualify the person from the bidding 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 bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury 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.

WITNESSES

.....

T2.2.8

PARTICULARS OF TENDERERS PROJECTS

DPW-09 (EC): PARTICULARS OF TENDERER'S PROJECTS

Project title:	Mpumalanga: Standerton Labour Centre - Construction of a new labour centre		
Tender / quotation no:	NST21/003	Closing date:	2021/06/07
Advertising date:	2021/05/05	Validity period:	56 days

1. PARTICULARS OF THE TENDERER'S CURRENT AND PREVIOUS COMMITMENTS

1.1. Current projects

Projects currently engaged in	Name of Employer or Representative of Employer	Contact tel. no.	Contract sum	Contractual commencement date	Contractual completion date	Current percentage progress
1						
2						
3						
4						
5						
6						
7						
8						

1.2. Completed projects

Projects completed in the previous 5 (five) years	Name of Employer or Representative of Employer	Contact tel. no.	Contract sum	Contractual commencement date	Contractual completion date	Date of Certificate of Practical Completion
1						
2						
3						
4						
5						
6						
7						
8						
9						

Name of Tenderer	Signature	Date

T2.2.9

**DECLARATION CERTIFICATE FOR LOCAL
PRODUCTION AND CONTENT FOR DESIGNATED
SECTORS**

PA36: Declaration Certificate for Local Production and Content for Designated Sectors.

(This form has been aligned with NT - SBD 6.2)

PA-36: DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

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) on the date of advertisement of the bid as indicated in paragraph 3.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp at no cost.



PA36: Declaration Certificate for Local Production and Content for Designated Sectors.

(This form has been aligned with NT - SBD 6.2)

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>
_____	_____ %
_____	_____ %
_____	_____ %

3. Does any portion of the goods or services offered have any imported content?

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

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 on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on www.resbank.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.

4. 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
(REFER TO ANNEX B OF SATS 1286:2011)



PA36: Declaration Certificate for Local Production and Content for Designated Sectors.

(This form has been aligned with NT - SBD 6.2)

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.NST21/003

ISSUED BY: (Procurement Authority / Name of Institution):
.....

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.thedti.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 bidder
entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that:
 - (i) 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 3.1 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.



PA36: Declaration Certificate for Local Production and Content for Designated Sectors.

(This form has been aligned with NT - SBD 6.2)

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 3.1 above and the information contained in Declaration D and E.

(d) I accept that the Procurement Authority / Institution 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 bid 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 / Institution 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: _____

WITNESS No. 1 _____

DATE: _____

WITNESS No. 2 _____

DATE: _____

T2.2.10

MANDATORY SUBCONTRACTING



Private Bag X11280, Nelspruit, 1200 Website www.publicworks.gov.za

SPECIAL CONDITIONS OF THE TENDER

TENDER: NST21/003: STANDERTON LABOR CENTRE: CONSTRUCTION OF LABOR CENTRE (APPOINTMENT OF A CONTRACTOR)

1. Tenders will be pre-qualified based on meeting the subcontracting condition of tender for 30% subcontracting of the value of the contract.
2. Tenderers are required to sub-contract a minimum of 30% of the value of the contract to subcontractors selected from a list provided on the Central Supplier Database (CSD) (www.csd.gov.za)
3. In order to find a list of subcontractors published on Central Supplier Database (CSD), go to www.csd.gov.za then log on using your company credentials, once logged on, select search (next to home tab) insert the following reference number:

Note: All sub-contractors on the CSD link are registered on the CIDB for grade 1-6 and tenderers may select as many sub-contractors as possible from any grading but must ensure that it adds up to 30% of the value of the contract.

**3324 NST21/003 GRADE 1
3325 NST21/003 GRADE 2
3326 NST21/003 GRADE 3
3327 NST21/003 GRADE 4
3328 NST21/003 GRADE 5
3329 NST21/003 GRADE 6**

4. Tenderers must ensure that sub-contractors are allocated work within their CIDB grading, capacity, and capability as per the CIDB regulations.
5. It is the responsibility of the tenderer to ensure that the selected sub-contractors comply with all the tendering requirements (i.e. CSD compliant, tax status and none of the directors are government employees or have been restricted)
6. Tenderers are responsible for conducting all due diligence on their sub-contractors they have selected from the provided list.
7. Failure to select the sub-contractors from the link provided by the Department on the CSD link will result in the tenderer being administratively non responsive.
8. The CSD reports for all intended sub-contractors should be attached



ANNEXURE B: MANDATORY SUBCONTRACTING

NOTE 1: FAILURE TO COMPLETE THIS FORM IN FULL WILL RESULT IN DISQUALIFICATION

NOTE 2: BIDDERS ARE NOT ALLOWED TO REPLICATE THIS ANNEXURE B

NO	COMPANY NAME (SUB-CONTRACTOR)	AMOUNT TO BE SUB- CONTRACTED	PERCENTAGE TO BE SUB-CONTRACTED	CIDB GRADING OF THE SUB- CONTRACTOR	SCOPE OF WORK TO BE SUB-CONTRACTED
1.					
2.					
3.					
4.					
5.					
6.					

NO	COMPANY NAME	AMOUNT TO BE SUBCONTRACTED	PERCENTAGE TO BE SUBCONTRACTED	CIDB GRADING OF THE SUB-CONTRACTOR	SCOPE OF WORK TO BE SUB-CONTRACTED
7.					
8.					
9					
10.					
11.					
12.					
13.					
14.					

NO	COMPANY NAME	AMOUNT TO BE SUBCONTRACTED	PERCENTAGE TO BE SUBCONTRACTED	CIDB GRADING OF THE SUB-CONTRACTOR	SCOPE OF WORK TO BE SUB-CONTRACTED
15.					
16.					
17.					
18.					
19.					
20.					
		TOTAL SUBCONTRACTING AMOUNT	TOTAL SUBCONTRACTING PERCENTAGE		

NAME OF REPRESENTATIVE:	SIGNATURE:	DATE:
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T2.3

RETURNABLE DOCUMENTS : OTHER THAN DOCUMENTS THAT WILL BE INCOPORATED INTO THE CONTRACT

T2.3.1

DECLARATION OF DESIGNATED GROUPS FOR PREFERENTIAL PROCUREMENT

PA- 40: DECLARATION OF DESIGNATED GROUPS FOR PREFERENTIAL PROCUREMENT

Name of Tenderer

EME¹ QSE² Non EME/QSE (tick applicable box)

1. LIST ALL PROPRIETORS, MEMBERS OR SHAREHOLDERS BY NAME, IDENTITY NUMBER, CITIZENSHIP AND DESIGNATED GROUPS.

Name and Surname #	Identity/ Passport number and Citizenship##	Percentage owned	Black	Indicate if youth	Indicate if woman	Indicate if person with disability	Indicate if living in Rural (R) / Under Developed Area (UD) / Township (T) / Urban (U).	Indicate if military veteran
1.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
5.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
7.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
8.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
9.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
11.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
12.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No

Where Owners are themselves a Company, Close Corporation, Partnership etc, identify the ownership of the Holding Company, together with Registration number

State date of South African citizenship obtained (not applicable to persons born in South Africa)

¹ EME: Exempted Micro Enterprise

² QSE: Qualifying Small Business Enterprise

PA- 40: DECLARATION OF DESIGNATED GROUPS FOR PREFERENTIAL PROCUREMENT

2. DECLARATION:

The undersigned, who warrants that he/she is duly authorized to do so on behalf of the Tenderer, hereby confirms that:

- 1 The information and particulars contained in this Affidavit are true and correct in all respects;
- 2 The Broad-based Black Economic Empowerment Act, 2003 (Act 53 of 2003), Preferential Procurement Policy Framework Act, 2000 (Act 5 of 2000), the Preferential Procurement Regulations, 2017, National Small Business Act 102 of 1996 as amended and all documents pertaining to this Tender were studied and understood and that the above form was completed according to the definitions and information contained in said documents;
- 3 The Tenderer understands that any intentional misrepresentation or fraudulent information provided herein shall disqualify the Tenderer's offer herein, as well as any other tender offer(s) of the Tenderer simultaneously being evaluated, or will entitle the Employer to cancel any Contract resulting from the Tenderer's offer herein;
- 4 The Tenderer accepts that the Employer may exercise any other remedy it may have in law and in the Contract, including a claim for damages for having to accept a less favourable tender as a result of any such disqualification due to misrepresentation or fraudulent information provided herein;
- 5 Any further documentary proof required by the Employer regarding the information provided herein, will be submitted to the Employer within the time period as may be set by the latter;

Signed by the Tenderer

Name of representative	Signature	Date

T2.3.2

RECORD OF ADDENDA TO TENDER DOCUMENTS

DPW-21 (EC): RECORD OF ADDENDA TO TENDER DOCUMENTS

Project title:	<i>Mpumalanga: Standerton Labour Centre - Construction of a new labour centre</i>		
Tender no:	<i>NST21/003</i>	Reference no:	

1. I / We confirm that the following communications received from the Department of Public Works before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer: *(Attach additional pages if more space is required)*

	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		

Name of Tenderer	Signature	Date

2. I / We confirm that no communications were received from the Department of Public Works before the submission of this tender offer, amending the tender documents.

Name of Tenderer	Signature	Date

T2.3.3

SCHEDULE OF PROPOSED SUBCONTRACTORS

DPW-15 (EC): SCHEDULE OF PROPOSED SUBCONTRACTORS

Project title:	<i>Mpumalanga: Standerton Labour Centre - Construction of a new labour centre</i>		
Tender no:	NST21/003	Reference no:	

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

We confirm that all subcontractors who are contracted to construct a house are registered as home builders with the National Home Builders Registration Council.

	Name and address of proposed Subcontractor	Nature and extent of work	Previous experience with Subcontractor
1			
2			
3			
4			
5			

Name of representative	Signature	Capacity	Date

Name of organisation:	
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T2.3.4

PARTICULARS OF ELECTRICAL CONTRACTOR

DPW-22 (EC): PARTICULARS OF ELECTRICAL CONTRACTOR

Project title:	<i>Mpumalanga: Standerton Labour Centre - Construction of a new labour centre</i>		
Tender no:	NST21/003	Reference no:	

Name of Electrical Contractor:	
Address:	
Electrical Contractor registration number at the Electrical Contracting Board of S.A.:	

Name of Tenderer	Signature	Date

T2.3.5

MECHANICAL/ELECTRICAL/SECURITY WORK MATERIAL AND EQUIPMENT SCHEDULES

T2.3.6

SCHEDULE OF IMPORTED MATERIALS AND EQUIPMENT

DPW-23 (EC): SCHEDULE FOR IMPORTED MATERIALS AND EQUIPMENT

Project title:	<i>Mpumalanga: Standerton Labour Centre - Construction of a new labour centre</i>		
Tender no:	<i>NST21/003</i>	Reference no:	

This schedule should be completed by the tenderer. *(Attach additional pages if more space is required)*

Item	Material / Equipment	Rand (R) (Excluding VAT)
1.		R
2.		R
3.		R
4.		R
5.		R
6.		R

The Contractor shall list imported items, materials and/or equipment which shall be excluded from the Contract Price Adjustment Provisions (if applicable) and shall be adjusted in terms of currency fluctuations only. Copies of the supplier's quotations for the items, materials or equipment (provided that such costs shall not be higher than the relevant contract rate as listed above) should be lodged with the Principal Agent / Engineer of the Department of Public Works within 60 (sixty) days from the date of acceptance of the tender. No adjustment of the local VAT amount, nor the contractor's profit, discount, mark-up, handling costs, etc. shall be allowed.

These net amounts will be adjusted as follows:

FORMULA:

The net amount to be added to or deducted from the contract sum:

$$A = V \left(\frac{Z}{Y} - 1 \right)$$

A = the amount (R) of adjustment

V = the net amount (supplier's quotation) (R) of the imported item

Y = exchange rate at the closing date of tender submission

Z = exchange rate on the date of payment.

Name of Tenderer	Signature	Date

T2.4

RETURNABLE DOCUMENTS : OTHER THAN DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT

VOLUME 3
CONTRACT

PART C1
AGREEMENT AND CONTRACT DATA

C1.1

JBCC PRINCIPAL BUILDING AGREEMENT (to form an
integral part of the contract document)

C1.2

CONTRACT DATA

DPW-04 (EC): CONTRACT DATA: JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 4.1 of March 2005)

Project title:	<i>Mpumalanga: Standerton Labour Centre - Construction of a new labour centre</i>		
Tender no:	<i>NST21/003</i>	Reference no:	

	<p>The Conditions of Contract are clauses 1 to 41 of the JBCC Series 2000 Principal Building Agreement (Edition 4.1 of March 2005) prepared by the Joint Building Contracts Committee.</p> <p>Copies of these conditions of contract may be obtained through most regional offices of the Association of South African Quantity Surveyors, Master Builders Association, South African Association of Consulting Engineers, South African Institute of Architects, Association of Construction Project Managers, Building Industries Federation South Africa, South African Property Owners Association or Specialist Engineering Contractors Committee.</p>
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	<p>CONTRACT VARIABLES</p> <p>THE SCHEDULE</p> <p>The schedule contains all variables referred to in this document and is divided into part 1: contract data completed by the employer and part 2: contract data completed by the contractor. Part 1 must be completed in full and included in the tender documents. Both the part 1 and part 2 form part of this agreement</p> <p>Spaces requiring information must be filled in, shown as 'not applicable' or deleted but not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross referenced to the applicable clause of the schedule. Key cross reference clauses are italicised in [] brackets</p>
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42.0	Part 1: Contract Data completed by the Employer:
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42.1	CONTRACTING AND OTHER PARTIES
42.1.1	<p>Employer:</p> <p>Government of the Republic of South Africa in its Department of Public Works</p> <p>Postal address: <i>Department of Public Works and infrastructure</i> <i>Private bag x 11280</i> <i>Nelspruit</i> <i>1200</i></p> <p>Tel: <i>013-753 6312no</i> Fax: <i>N/A</i></p> <p>[1.2] Physical address: <i>30 Brown Street, Nedbank building</i> <i>Nelspruit</i> <i>1201</i></p>

Tender no:

<p>42.1.2 [1.1, 5.1]</p>	<p>Principal Agent: Tiki Architects</p> <p>Postal address: 23 Villa La Tana Ground 63 Mulbarton Road Beverly Ext 6 Johannesburg</p> <p>Tel: 011- 402 1936 Fax: 086 381 7895</p>
<p>[1.1]</p>	<p>Representative of the Employer: Cyreal Sekatane and Kurhula Mkansi</p> <p>Postal address: Private Bag X11280 Nelspruit 1200</p> <p>Tel: 013-753 6312 / 6351 Fax: N/A</p>
<p>42.1.3 [1.1, 5.2]</p>	<p>Agent (1) Department of Public Works and Infrastructure</p> <p>Agent's service: Quantity Surveyor</p> <p>Postal address: Private Bag X11280 Nelspruit 1200</p> <p>Tel: 013-753 6335 Fax: N/A</p>
<p>42.1.4 [1.1, 5.2]</p>	<p>Agent (2) Tlou Intergrated Tech</p> <p>Agent's service: Civil Engineer</p> <p>Postal address: 9 Ivy Street Sunnyside Pretoria</p> <p>Tel: 012 343 7120 Fax: N/A</p>
<p>42.1.5 [1.1, 5.2]</p>	<p>Agent (3) Tlou Intergrated Tech</p> <p>Agent's service: Structural Engineer</p> <p>Postal address:</p>

	<p>9 Ivy Street Sunnyside Pretoria</p> <p>Tel: 012 343 7120 Fax: N/A</p>
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Tender no:

<p>42.1.6 [1.1, 5.2]</p>	<p>Agent (4) MMT Consulting Engineers (Pty) Ltd</p> <p>Agent's service: Electrical Engineer</p> <p>Postal address: Block A, Wedgefield Business Park 17 Muswell Road Bryanston</p> <p>Tel: 011 540 0121 Fax: N/A</p>
<p>42.1.7 [1.1, 5.2]</p>	<p>Agent (5) Tsekwane Investments Consulting Engineers and Project Manager</p> <p>Agent's service: Mechanical Engineer</p> <p>Postal address: B17 Lone Creek, Bekker Rd, Waterfall P.O. Box 10013 Centurion 00466</p> <p>Tel: 010 285 0831 Fax: N/A</p>
<p>42.1.8 [1.1, 5.2]</p>	<p>Agent (6) insert name</p> <p>Agent's service: insert service</p> <p>Postal address: insert postal address insert town insert postal code</p> <p>Tel: insert tel no Fax: insert fax no</p>
<p>42.1.9 [1.1, 5.2]</p>	<p>Agent (7) insert name</p> <p>Agent's service: insert service</p> <p>Postal address: insert postal address insert town insert postal code</p> <p>Tel: insert tel no Fax: insert fax no</p>

42.2	CONTRACT DETAILS
42.2.1 [1.1]	Works description: Refer to document C3 – Scope of Work.
42.2.2 [1.1]	Site description: Refer to document C4 – Site Information.
42.2.4 [41.0]	Specific options that are applicable to a State organ only Where so :

Tender no:

[1.1 #] [31.11.2 #] [31.12.2#]	1) Interest rate legislation: The interest rate applicable will be as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999)
[11.2.#]	2) Lateral support insurance to be effected by the contractor: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
[31.4.2 #]	3) Payment will be made for materials and goods Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
[40.2.2.#] [26.1.2 #]	4) Dispute resolution of any dispute shall be conducted in the following chronologically order with litigation being last resort: 4.1 Negotiation 4.2 Mediation 4.3 Adjudication 4.4 Arbitration 4.5 litigation 5) Extended defects liability period applicable to the following elements: state elements and extended defects liability periods
42.2.6 [15.3]	Period for the commencement of the works after the contractor takes possession of the site : Ten (10) working days .
42.2.7 [24.3.1] [30.1]	For the works as a whole: The date for practical completion shall be 18 months from the commencement date and the penalty per calendar day shall be R insert penalty amount .
42.2.8 [24.3.1] [28.1]	For the works in sections : The date for practical completion from the commencement date and the penalty per calendar day : Section 1: insert description as may be applicable insert penalty amount Section 2: insert description as may be applicable insert penalty amount Section 3: insert description as may be applicable insert penalty amount Section 4:

	<p>insert description as may be applicable</p> <p>insert penalty amount</p> <p>Section 5: insert description as may be applicable</p> <p>insert penalty amount</p> <p>Section 6: insert description as may be applicable</p> <p>insert penalty amount</p>
42.2.9 [1.2]	The law applicable to this agreement shall be that of the: Republic of South Africa

Tender no:

42.3	INSURANCES
42.3.1 [10.1 #, 10.2 # 12.1 #]	<p>Contract works insurance to be effected by the contractor</p> <p><input checked="" type="checkbox"/> To the minimum value of the contract sum plus 10% With a deductible not exceeding 5% of each and every claim Or <input type="checkbox"/> For the minimum sum of R insert amount (insert amount in words) With a deductible not exceeding 5% of each and every claim</p>
42.3.2 [10.1 #, 10.2 #, 12.1 #]	<p>Supplementary insurance is required: Yes</p> <p>To the minimum value of the contract sum plus 10 %</p>
42.3.3 [11.1 #, 12.1 #]	<p>Public liability insurance to be effected by the contractor</p> <p><input checked="" type="checkbox"/> For the sum of R 5 million With a deductible not exceeding 5% of each and every claim Or <input type="checkbox"/> For the sum of R insert amount (insert amount in words) With a deductible not exceeding 5% of each and every claim</p>
42.3.4 [11.2 #, 12.1 #]	<p>Support insurance to be effected by the contractor</p> <p>For the sum of R insert amount (insert amount in words) With a deductible of R insert amount (insert amount in words)</p>

42.4	DOCUMENTS
42.4.2 [3.7]	Three (3) copies of the construction documents will be supplied to the contractor free of charge
42.4.3	<p>Bills of quantities / Lump sum document schedule of rates drawn up in accordance with:</p> <p><input checked="" type="checkbox"/> Standard System of Measuring Building Work (sixth edition as amended) Or</p>

Contract Data: JBCC 2000 Principal Building Agreement
(Edition 4.1 of March 2005): DPW-04 (EC)

	<input type="checkbox"/> Standard System of Measuring Building Work for Small or Simple Buildings 1999 Or <input type="checkbox"/> Other (<i>specify</i>)
42.4.5 [3.4]	JBCC Engineering General Conditions are to be included in the contract documents: No

<p>42.4.6 [31.5.3] [32.13]</p>	<p>The contract value is to be adjusted using CPAP indices: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Where CPAP is applicable, the contract sum will be adjusted in accordance with the JBCC Contract Price Adjustment Provisions (CPAP) as set out in the CPAP Indices Application Manual as prepared by the JBCC Series 2000, code 2118, dated May 2005 and any amendments thereto:</p> <ol style="list-style-type: none"> 1) Glass etc. measured in specialist section Metalwork, will be adjusted in terms of the index for that work group unless specifically stated otherwise in the bills of quantities 2) All electrical installations in buildings and power distribution systems shall be adjusted in terms of the index for Work Group 160 Electrical Installation. In case of uninterruptible power supplies, elevators, escalators and hoists, generating sets, motor-alternator sets and intercommunication systems shall be in accordance with Work Group 170 3) With reference to Work Group 190 a proportion of the value related preliminaries pro rata to the amount of work excluded from adjustment, shall be excluded from Contract Price Adjustment Provisions, if Option A has been selected for the adjustment of preliminaries 4) Further to clause 3.4.4 of the CPAP Indices Application Manual, the listing of additional items for exclusion by tenderers, will not be permitted 5) Where V results in a negative amount after application of the formula in clause 8.3 of the CPAP Indices Application Manual the factor of 0,55 shall be substituted by 1,45 <p>Alternative Indices: Not Applicable</p>
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<p>42.4.7 [3.10]</p>	<p>Details of changes made to the provisions of JBCC standard documentation</p> <p>Clause</p> <p>1.1 COMMENCEMENT DATE – means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect</p> <p>CONSTRUCTION GUARANTEE – means a guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer’s construction guarantee form as selected in the schedule</p> <p>CONSTRUCTION PERIOD – means the period commencing on the commencement date and ending on the date of practical completion</p> <p>CORRUPT PRACTICE – means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution</p> <p>FRAUDULENT PRACTICE – means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer, and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition</p> <p>INTEREST – the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999)</p> <p>PRINCIPAL AGENT – means the person or entity appointed by the employer and named in the schedule. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by a representative of the employer as named in the schedule</p>
	<p>SECURITY – means the form of security provided by the employer or contractor, as stated in the schedule, from which the contractor or employer may recover expense or loss</p> <p>1.6 Any notice given may be delivered by hand, sent by prepaid registered post or telefax. Notice shall be presumed to have been duly given when:</p> <p>1.6.4 No clause</p> <p>3.2.1 A construction guarantee in terms of 14.0, where so elected in his tender</p> <p>3.7 Add at the end thereof:</p> <p>The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times.</p> <p>3.10 Replace the second reference to “principal agent” with the word “employer”</p> <p>4.3 No clause</p> <p>5.1.2 under clause 41- Include reference to 32.6.3; 34.3; 34.4 and 38.5.8 in terms of which the employer has retained its authority and has not given a mandate to the principal agent and in terms of which the employer shall sign all documents</p> <p>10.5 Add the following as 10.5</p>

Damage to the works

- (1) Without in any way limiting the **contractor's** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary
- (2) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**
- (3) The **employer** shall carry the risk of damage to or destruction of the **works** and materials paid for by the **employer** that is the result of the excepted risks as set out in 10.6
- (4) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

10.6 Add the following as 10.6

Injury to Persons or loss of or damage to Properties

- (1) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable
- (2) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable
- (3) The **contractor** shall upon receiving a **contract instruction** from the **principal agent** cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**
- (4) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**
- (5) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor**, shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed
- (6) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property

	<p>and to execute the works</p> <p>10.7 Add the following as 10.7</p> <p>HIGH RISK INSURANCE</p> <p>In the event of the project being executed in a geological area classified as a “High Risk Area”, that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:</p> <p>10.7.1 Damage to the works</p> <p>The contractor shall, from the commencement date of the works until the date of the certificate of practical completion, bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary</p> <p>When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor’s own costs</p> <p>10.7.2 Injury to persons or loss of or damage to property</p> <p>The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above</p> <p>The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract</p> <p>10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor’s obligations in terms of the contract, the contractor shall, within twenty one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so</p> <p>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor’s default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole</p> <p>14.0 Replace the entire clause 14.0 with the following:</p> <p>14.0 SECURITY</p> <p>14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT)</p>
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	<p>14.1.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor</p> <p>14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have been selected.</p> <p>14.3 Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:</p> <p>14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor</p> <p>14.3.3 Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor</p> <p>14.3.4 On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor</p> <p>14.3.5 The employer shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor</p>
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Tender no:

	<p>14.3.6 The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party</p> <p>14.4 Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:</p> <p>14.4.1 The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.4.2 The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender</p> <p>14.4.3 The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring</p> <p>14.4.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall issue a written demand in terms of the variable construction guarantee</p>
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	<p>14.5 Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.5.1 The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT)</p> <p>14.5.2 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion</p> <p>14.5.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring</p> <p>14.5.4 The payment reduction of the value certified in a payment certificate shall be in terms of 31.8(A) and 34.8</p> <p>14.5.5 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both</p> <p>14.6 Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.6.1 The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.6.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor</p> <p>14.6.3 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>14.6.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both</p> <p>14.7 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.7.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(B)</p> <p>14.7.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the contractor</p> <p>14.8 Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement</p> <p>14.9 Should the contractor fail to furnish the security in terms of 14.2 the employer, in his sole discretion, and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT), whereafter 14.7 shall be applicable</p> <p>15.1.1 No clause</p>
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15.1.2 The **security** selected in terms of 14.0

15.1.4 Add 15.1.4 as follows:

An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) **calendar days of commencement date**

15.2.1 Under 41: Amend to read as follows:

“Give the **contractor** possession of the **site** within ten (10) **working days** of the **contractor** complying with the terms of 15.1.4

17.1.11 Delete the words “and the appointment of **nominated** and **selected subcontractors**”

20.1.3 No clause

21.0 No clause

26.1.2 Add # next to 26.1.2

29.2.5 No clause

31.5.2 Security adjustments in terms of 14.0 or 31.8

31.8 Amend as follows:

31.8(A) Where a **security** is selected in terms of 14.1; 14.5 or 14.6, the value of the **works** in terms of 31.4.1 and of the **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(A).1 Ninety-five per cent (95%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(A).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(A).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(A).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**.

31.8(B) Where security is a payment reduction in term of 14.7 has been selected the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(B).1 Ninety per cent (90%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(B).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

	<p>31.8(B).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(B).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p> <p>31.12 Delete the following: "Payment shall be subject to the employer giving the contractor a tax invoice for the amount due."</p> <p>32.5.1 Add the following to the end of each of these clauses: "...due to no fault of the 32.5.4 contractor" and 32.5.7</p> <p>34.1 Remove #</p> <p>34.2 Add # next to 34.2</p> <p>34.8 The principal agent shall certify one hundred per cent (100%) of the amount of the final account in the final payment certificate</p> <p>34.13 Replace "seven (7) calendar days" with "twenty one (21) calendar days" and delete the words: "subject to the employer giving the contractor a tax invoice for the amount due"</p> <p>36.1 Add the following clauses 36.1.3 to 36.1.5. under 36.1 to read as follows:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated; liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>36.3 Remove reference to "No clause", and replace "principal agent" with "employer"</p> <p>36.7 Add the following: "Notwithstanding any clause to the contrary, on cancellation of this 37.5 agreement either by the employer or the contractor; or for any reason whatsoever, and the contractor shall on written instruction, discontinue with the works on a date stated 38.7 and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever"</p> <p>37.3.5 Replace "ninety (90)" with "one hundred and twenty (120) and 38.5.4</p> <p>39.3.5 Add the following words at the end thereof: "within one hundred and twenty (120) working days of completion of such a report"</p> <p>40.2.2 under clause 41 – Replace "one (1) year" with "three (3) years"</p> <p>40.6 under clause 41 – Remove reference to no clause</p> <p>40.7.1 Change "(10)" to "(15)"</p> <p>Add the following to the end thereof:</p>
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	Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs.
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42.0	Part 2: Contract Data provided by the Contractor:
42.5	CONTRACT DETAILS
42.5.1	<p>Contractor:</p> <p>_____</p> <p>Postal address:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Tel: _____ Fax: _____</p> <p>TAX / VAT Registration No: _____</p> <p>Physical address:</p> <p>_____</p> <p>_____</p> <p>_____</p>
42.5.2	<p>The accepted contract sum inclusive of tax is R _____</p> <p>Amount in words: _____</p>
42.5.3 [31.3]	The latest day of the month for the issue of an interim payment certificate : _____
42.5.4 [32.12]	The preliminaries amounts shall be paid in terms of: Alternative A <input type="checkbox"/> Alternative B <input type="checkbox"/>
42.5.5 [32.12]	The preliminaries amounts shall be adjusted in terms of: Alternative A <input type="checkbox"/> Alternative B <input type="checkbox"/>

Tender no:

<p>42.5.7 [14]</p>	<p>The security to be provided by the contractor:</p> <p>(a) in respect of contracts up to R1 million, the contractor will provide security in terms of 14.1</p> <p>(b) in respect of contracts above R1 million, the contractor will provide, as security, one of the following:</p> <p>(1) cash deposit of 10 % of the contract sum (excluding VAT) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(2) variable construction guarantee of 10 % of the contract sum (excluding VAT) (DPW-10.3 EC) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(3) payment reduction of 10% of the value certified in the payment certificate (excluding VAT) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>(4) cash deposit of 5% of the contract sum (excluding. VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding. VAT) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(5) fixed construction guarantee of 5% of the contract sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT) (DPW-10.1 EC) Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>NB. Guarantees submitted must be issued by either an insurance company duly registered in terms of the Short-Term Insurance Act, 1998 (Act 53 of 1998) or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.</p>
<p>42.5.8 [29.7.2]</p>	<p>The annual building holiday period after the commencement of the construction period:</p> <p>From: _____ to _____</p>

<p>42.6</p> <p>42.6.1</p>	<p>DOCUMENTS</p> <p>Contract documents marked and annexed hereto:</p> <p>Priced bills of quantities: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Document marked as: _____</p> <p>Lump sum document: : Yes <input type="checkbox"/> No <input type="checkbox"/> Document marked as: _____</p> <p>Guarantees: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Document marked as: _____</p> <p>Contract drawings: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Document marked as: _____</p> <p>Other documents: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (<i>Attach additional pages if more space is required</i>)</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
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C1.3

FORM OF GUARANTEE

DPW-10.3 (EC): VARIABLE CONSTRUCTION GUARANTEE - JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 4.1 of March 2005)

Director-General
 Department of Public Works
 Government of the Republic of South Africa

To: **Cyreal Sekatane**
 Private Bag **X11280**
Nelspruit
1200

Sir,

VARIABLE CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT IN TERMS OF JBCC 2000 (4.1 EDITION MARCH 2005)

1. With reference to the contract between _____
 _____ (hereinafter referred to as the “**contractor**”) and the Government of the Republic of South Africa, in its Department of Public Works, (hereinafter referred to as the “**employer**”), Contract/Tender No: **insert NST21/003**, for the **Mpumalanga: Standerton Labour Centre - Construction of a new labour centre** (hereinafter referred to as the “**contract**” in the amount of R **insert amount, (insert amount in words)** (hereinafter referred as the **contract sum**),
 I / We, _____
 in my/our capacity as _____ and hereby
 representing _____ (hereinafter referred to as the “**guarantor**”) advise that the **guarantor** holds at the **employer’s** disposal the sum of R **insert amount, (insert amount in words)** being 10% of the **contract sum** (excluding VAT), for the due fulfillment of the contract.
2. I / We advise that the **guarantor’s** liability in terms of this guarantee shall be as follows:
 - (a) From and including the date on which this guarantee is issued and up to and including the date of payment of the amount in the last final **payment certificate**, the **guarantor** will be liable in terms of this guarantee to the maximum amount of 10% of the **contract sum** (excluding VAT);
 - (b) The **guarantor’s** liability shall reduce to 3 % of the **contract value** (excluding VAT) as determined at the date of the last **certificate of practical completion**, subject to such amount not exceeding 10% of the **contract sum** (excluding VAT).
 - (c) The **guarantor’s** liability shall reduce to 1 % of the **contract value** (excluding VAT) as determined at the date of the last **certificate of final completion**, subject to such amount not exceeding 10 % of the **contract sum** (excluding VAT).
 - (d) This guarantee shall expire on the date of the last **final payment certificate**.
 - (e) The **practical completion certificate** and the **final completion certificate** referred to in this guarantee shall mean the certificates issued in terms of the contract.
3. The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis; and de duobus vel pluribus reis debendi* which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves to be conversant, and undertake to pay the **employer** the amount guaranteed on receipt of a written demand from the **employer** to do so, stating that the **employer** has a right of recovery against the **contractor** in terms of 33.0 of the contract.
4. Subject to the above, but without in any way detracting from the **employer’s** rights to adopt any of the procedures provided for in the contract, the said demand can be made by the **employer** at any stage prior to the expiry of this guarantee.

5. The amount paid by the **guarantor** in terms of this guarantee may be retained by the **employer** on condition that upon the issue of the last **final payment certificate**, the **employer** shall account to the **guarantor** showing how this amount has been expended and refund any balance due to the **guarantor**.
6. The **employer** shall have the absolute right to arrange his affairs with the **contractor** in any manner which the **employer** deems fit and the **guarantor** shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the **guarantor**. Without derogating from the foregoing, any compromise, extension of the construction period, indulgence, release or variation of the **contractor's** obligation shall not affect the validity of this guarantee.
7. The **guarantor** reserves the right to withdraw from this guarantee at any time by depositing the amount guaranteed with the **employer**, whereupon the **guarantor's** liability ceases.
8. This guarantee is neither negotiable nor transferable, and
 - (a) must be surrendered to the **guarantor** at the time when the **employer** accounts to the **guarantor** in terms of clause 5 above, or
 - (b) shall lapse in accordance with clause 2(d) above.
9. This guarantee shall not be interpreted as extending the **guarantor's** liability to anything more than the payment of the amount guaranteed.

SIGNED AT _____ ON THIS _____ DAY OF _____ 200__

AS WITNESS

1. _____
2. _____

By and on behalf of

 (insert the name and physical address of the guarantor)

NAME: _____

CAPACITY: _____
 (duly authorised thereto by resolution attached marked Annexure A)

DATE: _____

- A. No alterations and/or additions of the wording of this form will be accepted.
- B. The physical address of the guarantor must be clearly indicated and will be regarded as the guarantor's *domicilium citandi et executandi*, for all purposes arising from this guarantee.
- C. This guarantee must be returned to: _____

DPW-10.1 (EC): FIXED CONSTRUCTION GUARANTEE - JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 4.1 of March 2005)

Director-General
Department of Public Works
Government of the Republic of South Africa

To: Cyreal Sekatane
Private Bag X11280
Nelspruit
1200

Sir,

FIXED CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT IN TERMS OF JBCC 2000 (4.1 EDITION MARCH 2005)

1. With reference to the contract between _____
_____ (hereinafter referred to as the “**contractor**”) and the Government of the Republic of South Africa in its Department of Public Works (hereinafter referred to as the “**employer**”), Contract/Tender No: NST21/003, for the Mpumalanga: Standerton Labour Centre - Construction of a new labour centre (hereinafter referred to as the “**contract**”) in the amount of R *insert amount, (insert amount in words)*, (hereinafter referred to as the **contract sum**),

I / We, _____

in my/our capacity as _____ and hereby

representing _____ (hereinafter referred to as the “**guarantor**”) advise that the **guarantor** holds at the **employer’s** disposal the sum of R *insert amount, (insert amount in words)* being 5% of the **contract sum** (excluding VAT), for the due fulfillment of the contract.

2. The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis; and de duobus vel pluribus reis debendi* which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves to be conversant, and undertake to pay the **employer** the amount guaranteed, on receipt of a written demand from the **employer** to do so, stating that the **employer** has a right of recovery against the **contractor** in terms of 33.0 of the contract.
3. Subject to the above, but without in any way detracting from the **employer’s** rights to adopt any of the procedures provided for in the contract, the said demand can be made by the **employer**, at any stage prior to the expiry of this guarantee.
4. The amount paid by the **guarantor** in terms of this guarantee may be retained by the **employer** on condition that upon the issue of the last final **payment certificate**, the **employer** shall account to the **guarantor** showing how this amount has been expended and refund any balance due to the **guarantor**.
5. The **employer** shall have the absolute right to arrange his affairs with the **contractor** in any manner which the **employer** deems fit and the **guarantor** shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the **guarantor**. Without derogating from the foregoing, any compromise, extension of the **construction period**, indulgence, release or variation of the **contractor’s** obligation shall not affect the validity of this guarantee.

DPW-10.1 (EC): Fixed Construction Guarantee – JBCC 2000

6. The **guarantor** reserves the right to withdraw from this guarantee at any time by depositing the guaranteed amount with the **employer**, whereupon the guarantor's liability ceases.
7. This guarantee is neither negotiable nor transferable, and
 - (a) must be surrendered to the **guarantor** at the time when the **employer** accounts to the **guarantor** in terms of clause 4 above, or
 - (b) shall lapse on the date of the last **certificate of practical completion**.
8. This guarantee shall not be interpreted as extending the **guarantor's** liability to anything more than payment of the amount guaranteed.

SIGNED AT _____ ON THIS _____ DAY OF _____ 200__

AS WITNESS

1. _____
2. _____

By and on behalf of

(insert the name and physical address of the guarantor)

NAME: _____

CAPACITY: _____
(duly authorised thereto by resolution attached marked Annexure A)

DATE: _____

- A. No alterations and/or additions of the wording of this form will be accepted.
- B. The physical address of the guarantor must be clearly indicated and will be regarded as the guarantor's *domicilium citandi et executandi*, for all purposes arising from this guarantee.
- C. This GUARANTEE must be returned to: _____

PART C2
PRICING DATA

C2.1

PRICING INSTRUCTIONS, PRICING SCHEDULES

PG-02.2 (EC) PRICING INSTRUCTIONS - JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 4.1 of March 2005)

Project title:	Mpumalanga: Standerton Labour Centre - Construction of a new labour centre		
Tender no:	NST21/003	Reference no:	

C2.1 Pricing Instructions

1. **GENERAL (Note to departmental project manager/consultant(s): This item serves as a guideline only and must be deleted)**

- (a) *The Standard for Uniformity in Construction Procurement published in terms of the Construction Industry Development Board (CIDB) Act, 2000 (Act no. 38 of 2000), the Standardized Construction Procurement Documents for Engineering and Construction Works as issued by the CIDB and any other relevant documentation pertaining thereto must be studied and all principles in this regard must be applied to all procurement documentation, practices and procedures.*
- (b) *The consultant(s)/project manager must acquaint themselves fully with all relevant matters pertaining to this section in order to enable prospective tenderers to price for all eventualities.*

2. *The following items must be included in the Pricing Instructions. Any additional items deemed necessary must be included herein. (Delete this instruction and re-number the items as required)*

(a) **BILLS OF QUANTITIES / LUMP SUM DOCUMENT**

The **bills of quantities / lump sum document** forms part of and must be read and priced in conjunction with all the other documents forming part of the **contract documents**, the Standard Conditions of Tender, Conditions of Contract, Specifications, Drawings and all other relevant documentation.

(b) **VALUE ADDED TAX**

The **contract sum** must include for Value Added Tax (VAT). All rates, provisional sums, etc. in the **bills of quantities / lump sum document** must however be net (exclusive of VAT) with VAT calculated and added to the total value thereof in the Final Summary.

(c) **FIXED PRICE CONTRACT**

Should the bills of quantities / lump sum document be a fixed price contract, the following clause must be inserted in the Pricing Instructions. (Delete this instruction if a fixed price contract is applicable, or delete item in total if not a fixed price contract)

Tenderers are to take note that contract price adjustments are not applicable to this contract. Tenderers should therefore make provision in the **contract sum**, schedule of rates, etc., for possible price increases during the contract period, as no claims in this regard shall be entertained.

(c) **LABOUR-INTENSIVE WORKS**

Should labour-intensive works be applicable to the contract the following clause must be inserted in the Pricing Instructions. (Delete item in total if labour-intensive works are not applicable to the contract)

Those parts of the works to be constructed using labour-intensive methods are marked in the **bills of quantities / lump sum document** with the letters LI either in a separate column or as a prefix or suffix against every item so designated. The works, or parts of the 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 work, is a deviation from the contract. The items marked with the letters LI are not necessarily an exhaustive list of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the generic labour-intensive specification in the Scope of Works.

Where minimum labour intensity is specified by the design the **contractor** is expected to use their initiative to identify additional activities that can be done labour-intensively in order to comply with the set minimum labour intensity target.

Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour-intensive methods. Any unauthorised 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.



PA-30.1: **PRICING SCHEDULE - FIRM PRICES**

NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name of bidder.....	Bid number...NST21/003
Closing Time 11:00 on 2021/06/07	

OFFER TO BE VALID FOR 56 DAYS FROM THE CLOSING DATE OF BID.

ITEM NO.	QUANTITY	DESCRIPTION	BID PRICE IN RSA CURRENCY (INCLUDING VAT)
-	Required by:	.....
-	At:	.....
-	Brand and model	.....
-	Country of origin	.....
-	Does offer comply with specification?		*YES/NO
-	If not to specification, indicate deviation(s)	.....
-	Period required for delivery	.....	*Delivery: Firm/not firm
-	Delivery basis (all delivery costs must be included in the bid price)	.....

Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.

***Delete if not applicable**

THIS FORM IS ALIGNED WITH SBD 3.1

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

Pricing schedule – Non-firm prices: PA-30.2

**PA- 30.2: PRICING SCHEDULE – NON-FIRM PRICES
 (PURCHASES)**

NOTE: PRICE ADJUSTMENTS WILL BE ALLOWED AT THE PERIODS AND TIMES SPECIFIED IN THE BIDDING DOCUMENTS.

IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name of Bidder.....Bid number NST21/003

Closing Time 11:00 on 2021/06/07

OFFER TO BE VALID FOR 56 DAYS FROM THE CLOSING DATE OF BID.

ITEM NO. (INCLUDING VAT)	QUANTITY	DESCRIPTION	BID PRICE IN RSA CURRENCY
--------------------------	----------	-------------	---------------------------

- Required by:df.....
- At:.....
- Brand and model
 -
 - Country of origin
- Does offer comply with specification? *YES/NO
- If not to specification, indicate deviation(s)
- Period required for delivery
- Delivery: *Firm/not firm

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".
 For Internal Use Effective date September 2011 Version: 1.0

PRICE ADJUSTMENTS

A NON-FIRM PRICES SUBJECT TO ESCALATION

1. IN CASES OF PERIOD CONTRACTS, NON FIRM PRICES WILL BE ADJUSTED (LOADED) WITH THE ASSESSED CONTRACT PRICE ADJUSTMENTS IMPLICIT IN NON FIRM PRICES WHEN CALCULATING THE COMPARATIVE PRICES
2. IN THIS CATEGORY PRICE ESCALATIONS WILL ONLY BE CONSIDERED IN TERMS OF THE FOLLOWING FORMULA:

$$Pa = (1 - V)Pt \left(D1 \frac{R1t}{R1o} + D2 \frac{R2t}{R2o} + D3 \frac{R3t}{R3o} + D4 \frac{D4t}{D4o} \right) + VPt$$

Where:

- Pa = The new escalated price to be calculated.
- (1-V)Pt = 85% of the original bid price. **Note that Pt must always be the original bid price and not an escalated price.**
- D1, D2.. = Each factor of the bid price eg. labour, transport, clothing, footwear, etc. The total of the various factors D1,D2...etc. must add up to 100%.
- R1t, R2t..... = Index figure obtained from new index (depends on the number of factors used).
- R1o, R2o = Index figure at time of bidding.
- VPt = 15% of the original bid price. This portion of the bid price remains firm i.e. it is not subject to any price escalations.

3. The following index/indices must be used to calculate your bid price:

Index..... Dated..... Index..... Dated..... Index..... Dated.....
 Index..... Dated..... Index..... Dated..... Index..... Dated.....

4. FURNISH A BREAKDOWN OF YOUR PRICE IN TERMS OF ABOVE-MENTIONED FORMULA. THE TOTAL OF THE VARIOUS FACTORS MUST ADD UP TO 100%.

FACTOR (D1, D2 etc. eg. Labour, transport etc.)	PERCENTAGE OF BID PRICE

B PRICES SUBJECT TO RATE OF EXCHANGE VARIATIONS

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

1. Please furnish full particulars of your financial institution, state the currencies used in the conversion of the prices of the items to South African currency, which portion of the price is subject to rate of exchange variations and the amounts remitted abroad.

PARTICULARS OF FINANCIAL INSTITUTION	ITEM NO	PRICE	CURRENCY	RATE	PORTION OF PRICE SUBJECT TO ROE	AMOUNT IN FOREIGN CURRENCY REMITTED ABROAD
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		

2. Adjustments for rate of exchange variations during the contract period will be calculated by using the average monthly exchange rates as issued by your commercial bank for the periods indicated hereunder: (Proof from bank required)

AVERAGE MONTHLY EXCHANGE RATES FOR THE PERIOD:	DATE DOCUMENTATION MUST BE SUBMITTED TO THIS OFFICE	DATE FROM WHICH NEW CALCULATED PRICES WILL BECOME EFFECTIVE	DATE UNTIL WHICH NEW CALCULATED PRICE WILL BE EFFECTIVE
	f		

THIS FORM IS ALIGNED WITH SBD 3.2

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

For Internal Use

Effective date September 2011

Version: 1.0

PA – 30.3: PRICING SCHEDULE
(Professional Services)

NAME OF BIDDER: BID NO.: NST21/003
 CLOSING TIME 11:00 ON 2021/06/07

OFFER TO BE VALID FOR DAYS FROM THE CLOSING DATE OF BID.

ITEM NO	DESCRIPTION	BID PRICE IN RSA CURRENCY INCLUSIVE OF <u>VALUE ADDED TAX</u>
---------	-------------	---

1. The accompanying information must be used for the formulation of proposals.
2. Bidders are required to indicate a ceiling price based on the total estimated time for completion of all phases and including all expenses inclusive of VAT for the project. R.....

3. PERSONS WHO WILL BE INVOLVED IN THE PROJECT AND RATES APPLICABLE (CERTIFIED INVOICES MUST BE RENDERED IN TERMS HEREOF)

4. PERSON AND POSITION	HOURLY RATE	DAILY RATE
.....	R.....	.....
.....	R.....	.....
.....	R.....	.....
.....	R.....	.....
.....	R.....	.....

5. PHASES ACCORDING TO WHICH THE PROJECT WILL BE COMPLETED, COST PER PHASE AND MAN-DAYS TO BE SPENT

.....	R.....	..... days
.....	R.....	..... days
.....	R.....	..... days
.....	R.....	..... days

5.1 Travel expenses (specify, for example rate/km and total km, class of airtravel, etc). Only actual costs are recoverable. Proof of the expenses incurred must accompany certified invoices.

DESCRIPTION OF EXPENSE TO BE INCURRED	RATE	QUANTITY	AMOUNT
.....	R.....
.....	R.....
.....	R.....
.....	R.....

Name of Bidder:

TOTAL: R.....

5.2 Other expenses, for example accommodation (specify, eg. Three star hotel, bed and breakfast, telephone cost, reproduction cost, etc.). On basis of these particulars, certified invoices will be checked for correctness. Proof of the expenses must accompany invoices.

DESCRIPTION OF EXPENSE TO BE INCURRED	RATE	QUANTITY	AMOUNT
.....	R.....
.....	R.....
.....	R.....
.....	R.....

TOTAL: R.....

- 6. Period required for commencement with project after acceptance of bid
.....
- 7. Estimated man-days for completion of project
.....
- 8. Are the rates quoted firm for the full period of contract?
.....
- 9. If not firm for the full period, provide details of the basis on which adjustments will be applied for, for example consumer price index.
.....
.....
.....

Any enquiries regarding bidding procedures may be directed to the –

(INSERT NAME AND ADDRESS OF DEPARTMENT/ENTITY)

Tel:

Or for technical information –

(INSERT NAME OF CONTACT PERSON)

Tel:

THIS FORM IS ALIGNED WITH SBD 3.3

C2.2

BILLS OF QUANTITIES/LUMP SUM DOCUMENT (IF NOT A RETURNABLE DOCUMENT)

C2.2.1

PRELIMINARIES

C2.2.2

BUILDING WORK

Item No	Quantity	Rate	Amount
<p>SECTION 1</p>			
<p>BILL NO 1</p>			
<p>PRELIMINARIES</p>			
<p>MEANING OF TERMS "TENDER/TENDERER"</p>			
<p>Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"</p>			
<p>PRELIMINARIES</p>			
<p>The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable"</p>			
<p>PRICING OF PRELIMINARIES</p>			
<p>Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item</p>			
<p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities</p>			
<p>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</p>			
<p>Definitions and Interpretation (A1-A7)</p>			
<p>1 Clause 1.0 - Definitions and interpretation</p>			
<p>Carried Forward</p>			
<p>Section No 1 Bill No 1 Preliminaries</p>			
		R	

Brought Forward

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Clause 1.1 Definition of "commencement date" is added

"COMMENCEMENT DATE" means the date that the **agreement**, made in terms of the Form of Offer and Acceptance, comes into effect

Clause 1.1 Definition of "**construction guarantee**" is amended by replacing the following:

"CONSTRUCTION GUARANTEE" means a guarantee at call obtained by the **contractor** from an institution approved by the **employer** in terms of the **employer's** construction guarantee form as selected in the **schedule**

Clause 1.1 Definition of "**Construction Period**" is amended by replacing it with the following:

"CONSTRUCTION PERIOD" means the period commencing on the **commencement date** and ending on the date of **practical completion**

Clause 1.1 Definition of "**Corrupt Practice**" is added:

"CORRUPT PRACTICE" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution

Clause 1.1 Definition of "**Fraudulent Practice**" is added:

"FRAUDULENT PRACTICE" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition

Clause 1.1 Definition of "Interest" is added:

"INTEREST" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999)

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<p>Clause 1.1 Definition of “Principal Agent” is amended by replacing it with the following:</p> <p>“PRINCIPAL AGENT” means the person or entity appointed by the employer and named in the schedule. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by a representative of the employer as named in the schedule</p> <p>Clause 1.1 Definition of “Security” is amended by replacing it with the following:</p> <p>“SECURITY” means the form of security provided by the employer or contractor, as stated in the schedule, from which the contractor or employer may recover expense or loss</p> <p>Clause 1.6 is amended by replacing the words “prepaid registered post, telefax or e-mail” with “prepaid registered post or telefax”</p> <p>Clause 1.6.4 is amended by replacing it with the following:</p> <p>F:..... V:..... T:.....</p>		
2	<p>Clause 2.0 - Offer, acceptance and performance</p> <p>F:..... V:..... T:..... ..</p>	Item
3	<p>Clause 3.0 - Documents</p> <p>Clause 3.2.1 is amended by replacing "14.1" with 14.0</p> <p>Clause 3.7 is amended by the addition of the following:</p> <p>The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times</p> <p>F:..... V:..... T:.....</p>	Item
Carried Forward		R
<p>Section No 1 Bill No 1 Preliminaries</p>		

Brought Forward		R
4	<p>Clause 4.0 - Design responsibility</p> <p>Clause 4.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>F:..... V:..... T:.....</p>	Item
5	<p>Clause 5.0 - Employer's agents</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item
6	<p>Clause 6.0 - Site representative</p>	
7	<p>Clause 7.0 - Compliance with regulations</p> <p>Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification</p> <p>F:..... V:..... T:.....</p> <p>..</p> <p>Insurance and security (A8-A14)</p>	Item
8	<p>Clause 8.0 - Works risk</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item
9	<p>Clause 9.0 - Indemnities</p> <p>F:..... V:..... T:.....</p>	Item
10	<p>Clause 10.0 - Works insurances</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p> <p>10.5 Damage to the Works</p>	
Carried Forward		R
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- (a) Without in any way limiting the **contractor's** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary
- (b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**
- (c) The **employer** shall carry the risk of damage to or destruction of the **works** and materials paid for by the **employer** that is the result of the excepted risks as set out in 10.6
- (d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

10.6 Injury to Persons or loss of or damage to Properties

- (a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable

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- (b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable

- (c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**

- (d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**

- (e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed

- (f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

10.7 High risk insurance

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In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

10.7.1 Damage to the works

The **contractor** shall, from the **commencement date** of the **works** until the date of the **certificate of practical completion** bear the full risk of and hereby indemnifies and holds harmless the **employer** against any damage to and/or destruction of the **works** consequent upon a catastrophic ground movement as mentioned above. The **contractor** shall take such precautions and security measures and other steps for the protection of the **works** as he may deem necessary

When so instructed to do so by the **principal agent**, the **contractor** shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**, at the **contractor's** own costs

10.7.2 Injury to persons or loss of or damage to property

The **contractor** shall be liable for and hereby indemnifies and holds harmless the **employer** against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of, or caused by a catastrophic ground movement as mentioned above

The **contractor** shall be liable for and hereby indemnifies the **employer** against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

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10.7.3 It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the **contractor's** obligations in terms of the contract, the **contractor** shall, within twenty-one (21) **calendar days** of the **commencement date** but before commencement of the **works**, submit to the **employer** proof of such insurance policy, if requested to do so

10.7.4 The **employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the **contractor's** default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the **contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered one indivisible whole

F:..... V:.....
T:.....

Item

11 Clause 11.0 - Liability insurances

F:..... V:.....
T:.....

Item

12 Clause 12.0 - **Effecting insurances**

F:..... V:.....
T:.....

Item

13 Clause 13.0 - **No clause**

14 Clause 14.0 - **Security**

Clauses 14.1 - 14.8 are amended by replacing them with the following:

14.1 In respect of contracts with a **contract sum** up to R1 million, the **security** to be provided by the **contractor** to the **employer** will be a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT)

14.1.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)

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14.1.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction **security** or portions thereof to the **contractor**

14.2 In respect of contracts with a **contract sum** above R1 million, the **contractor** shall have the right to select the **security** to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the **schedule**. Such **security** shall be provided to the **employer** within twenty-one (21) **calendar days** from **commencement date**. Should the **contractor** fail to select the **security** to be provided or should the **contractor** fail to provide the **employer** with the selected **security** within twenty-one (21) **calendar days** from **commencement date**, the **security** in terms of 14.7 shall be deemed to have been selected

14.3 Where **security** as a cash deposit of ten per cent (10%) of the **contract sum** (excluding VAT) has been selected:

14.3.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.3.2 Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to three per cent (3%) of the **contract value** (excluding VAT), and refund the balance to the **contractor**

14.3.3 Within twenty-one (21) **calendar days** of the date of **final completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to one per cent (1%) of the **contract value** (excluding VAT) and refund the balance to the **contractor**

14.3.4 On the date of payment of the amount in the final **payment certificate**, the **employer** shall refund the remainder of the cash deposit to the **contractor**

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<p>14.3.5 The employer shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor</p>	
<p>14.3.6 The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party</p>	
<p>14.4 Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:</p>	
<p>14.4.1 The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p>	
<p>14.4.2 The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender</p>	
<p>14.4.3 The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring</p>	
<p>14.4.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall issue a written demand in terms of the variable construction guarantee</p>	
<p>14.5 Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:</p>	
<p>Carried Forward</p> <p>Section No 1 Bill No 1 Preliminaries</p>	<p>R</p>

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- 14.5.1 The **contractor** shall furnish a fixed **construction guarantee** to the **employer** equal in value to five per cent (5%) of the **contract sum** (excluding VAT)
- 14.5.2 The fixed **construction guarantee** shall come into force on the date of issue and shall expire on the date of the last certificate of **practical completion**
- 14.5.3 The **employer** shall return the fixed **construction guarantee** to the **contractor** within fourteen (14) **calendar days** of it expiring
- 14.5.4 The payment reduction of the value certified in a **payment certificate** shall be in terms of 31.8 (A) and 34.8
- 14.5.5 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall be entitled to issue a written demand in terms of the fixed **construction guarantee** or may recover from the payment reduction or may do both
- 14.6 Where **security** as a cash deposit of five per cent (5%) of the **contract sum** (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT) has been selected:
- 14.6.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to five per cent (5%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**
- 14.6.2 Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall refund the cash deposit in total to the **contractor**
- 14.6.3 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)

Carried Forward

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Preliminaries

Brought Forward		R
<p>14.6.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both</p> <p>14.7 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.7.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(B)</p> <p>14.7.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the contractor</p> <p>14.8 Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement</p> <p>14.9 Should the contractor fail to furnish the security in terms of 14.2, the employer, in his sole discretion and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT), whereafter 14.7 shall be applicable</p> <p>F:..... V:..... T:.....</p> <p>Execution (A15 - A21)</p> <p>15 Clause 15.0 - Preparation for and execution of the works</p> <p>Clause 15.1.1 is amended by replacing it with:</p> <p>No clause</p>	Item	
Carried Forward		R
<p>Section No 1 Bill No 1 Preliminaries</p>		

Brought Forward		R
<p>Clause 15.1.2 is amended by replacing it with:</p> <p>The security selected in terms of 14.0</p> <p>Clause 15.1 is amended by the addition of the following clause:</p> <p>15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) calendar days of commencement date</p> <p>Clause 15.2.1 is amended by replacing it with the following clause:</p> <p>Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>	
<p>16 Clause 16.0 - Access to the works</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>	
<p>17 Clause 17.0 - Contract instructions</p> <p>Acceleration</p> <p>Clause 17.1.11 is amended by deleting the words “and the appointment of nominated and selected subcontractors”</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>	
<p>18 Clause 18.0 - Setting out of the works</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>	
<p>19 Clause 19.0 - Assignment</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>	
<p>20 Clause 20.0 - Nominated subcontractors</p>		
Carried Forward		R
<p>Section No 1 Bill No 1 Preliminaries</p>		

Brought Forward		R
	<p>Clause 20.1.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p> <p>F:..... V:..... T:.....</p>	Item
21	<p>Clause 21.0 - Selected subcontractor</p> <p>Clause 21 is amended by replacing it with:</p> <p>No clause</p> <p>F:..... V:..... T:.....</p>	Item
22	<p>Clause 22.0 - Employer's direct contractors</p> <p>F:..... V:..... T:.....</p>	Item
23	<p>Clause 23.0 - Contractor's direct contractors</p> <p>F:..... V:..... T:.....</p>	Item
Completion (A24 - A30)		
24	<p>Clause 24.0 - Practical completion</p> <p>F:..... V:..... T:.....</p>	Item
25	<p>Clause 25.0 - Works completion</p> <p>F:..... V:..... T:.....</p>	Item
26	<p>Clause 26.0 - Final completion</p> <p>Clause 26.1.2 is amended by inserting "#" next to 26.1.2</p>	
Carried Forward		R
<p>Section No 1 Bill No 1 Preliminaries</p>		

Brought Forward		R
	F:..... V:..... T:.....	Item
27	Clause 27.0 - Latent defects liability period	
	F:..... V:..... T:.....	Item
28	Clause 28.0 - Sectional completion	
	F:..... V:..... T:.....	Item
29	Clause 29.0 - Revision of date for practical completion	
	Clause 29.2.5 is amended by replacing it with: No clause	
	F:..... V:..... T:.....	Item
30	Clause 30.0 - Penalty for late or non-completion	
	F:..... V:..... T:.....	Item
	Payment (A31 - A35)	
31	Clause 31.0 - Interim payment to the contractor	
	Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"	
	Clause 31.8 is amended by replacing it with the following two alternative clauses	
	Alternative A	
	31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:	
	Carried Forward	R
	Section No 1 Bill No 1 Preliminaries	

Brought Forward	R
<p>31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion</p>	
<p>31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p>	
<p>31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p>	
<p>31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p>	
<p>Alternative B</p>	
<p>31.8(B) Where security as a payment reduction in terms of 14.7 has been selected, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p>	
<p>31.8(B).1 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion</p>	
<p>31.8(B).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p>	
<p>31.8(B).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p>	
Carried Forward	R
<p>Section No 1 Bill No 1 Preliminaries</p>	

Brought Forward		R
<p>31.8(B).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p> <p>Clause 31.12 is amended by deleting the following:</p> <p>Payment shall be subject to the employer giving the contractor a tax invoice for the amount due</p> <p>F:..... V:..... T:.....</p>		
<p>32 Clause 32.0 - Adjustment of the contract value and final account</p> <p>Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:</p> <p>"due to no fault of the contractor"</p> <p>F:..... V:..... T:.....</p>	<p>Item</p> <p>Item</p>	
<p>33 Clause 33.0 - Recovery of expense and/or loss</p> <p>F:..... V:..... T:.....</p>	<p>Item</p> <p>Item</p>	
<p>34 Clause 34.0 - Final account final payment</p> <p>Clause 34.1 is amended by removing “#” next to 34.1</p> <p>Clause 34.2 is amended by inserting “#” next to 34.2</p> <p>Clause 34.8 is amended by deleting the words “where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1”</p> <p>Clause 34.13 is amended by replacing “seven (7) calendar days” with “twenty-one (21) calendar days” and deleting the words “subject to the employer giving the contractor a tax invoice for the amount due”</p>	<p>Item</p>	
Carried Forward		R
<p>Section No 1 Bill No 1 Preliminaries</p>		

Brought Forward		R
	F:..... V:..... T:.....	Item
35	Clause 35 - Payment to other parties	
	F:..... V:..... T:.....	Item
Cancellation (A36 - A39)		
36	Clause 36.0 - Cancellation by employer - contractor's default	Item
	Clause 36.1 is amended by the addition of the following clauses:	
	36.1.3 refuses or neglects to comply strictly with any of the conditions of contract	
	36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa	
	36.1.5 in the judgement of the employer , has engaged in corrupt or fraudulent practices in competing for or in executing the contract	
	Clause 36.3 is amended by removing the reference to "No clause" and replacing the words " principal agent " with " employer "	
	36.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor ; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site . The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever	
	F:..... V:..... T:.....	Item
37	Clause 37.0 - Cancellation by employer - loss of damage	
	Clause 37.3.5 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"	
Carried Forward		R
Section No 1 Bill No 1 Preliminaries		

Brought Forward

R

Clause 37.0 is amended by the addition of the following clause:

37.5 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

F:..... V:.....
T:.....

Item

38 Clause 38.0 - Cancellation by **contractor - employer's** default

Clause 38.5.4 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"

Clause 38.0 is amended by the addition of the following clause:

38.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

F:..... V:.....
T:.....

Item

39 Clause 39.0 - Cessation of the **works**

Clause 39.3.5 is amended by the addition of the following at the end of the sentence:

"within one hundred and twenty (120) **working days** of completion of such a report"

F:.....V:.....T:.....
..

Item

Carried Forward

R

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Brought Forward

R

Dispute (A40)

40 Clause 40.0 - Dispute settlement

Clause 40.2.2 is amended by replacing “one (1) year” with “three (3) years”

Clause 40.6 is amended by removing the reference to:

No clause

Clause 40.7.1 is amended by replacing “(10)” with “(15)” and by the addition of the following:

Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the **mediator** and related costs

F:..... V:.....
T:.....

Item

41 Clause 41.0 - State clauses

F:..... V:.....
T:.....

Item

Contact variables (A42)

42 Clause 42.0 - The schedule (DPW-04EC)

Tenderers are referred to the Contract Data DPW-04(EC) for variables pertaining to this contract

F:..... V:.....
T:.....

Item

SECTION B: JBCC PRELIMINARIES

Definitions and interpretation (B1)

43 See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section

F:..... V:.....
T:.....

Item

Carried Forward

R

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Brought Forward		R
Documents (B2)		
44	Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item
45	Clause 2.2 - Provisional bills of quantities F:..... V:..... T:.....	Item
46	Clause 2.3 - Availability of construction information F:..... V:..... T:.....	Item
47	Clause 2.4 - Interest of agents F:..... V:..... T:.....	Item
48	Clause 2.5 - Priced documents F:..... V:..... T:.....	Item
49	Clause 2.6 - Tender submission Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)" F:..... V:..... T:.....	Item
The site (B3)		
50	Clause 3.1 - Define works area F:..... V:..... T:.....	Item
51	Clause 3.2 - Geotechnical investigation F:..... V:..... T:.....	Item
Carried Forward		R
Section No 1 Bill No 1 Preliminaries		

Brought Forward			R
52	Clause 3.3 - Inspection of the site F:..... V:..... T:.....	Item	
53	Clause 3.4 - Existing premises occupied F:..... V:..... T:.....	Item	
54	Clause 3.5 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item	
55	Clause 3.6 - Previous work - defects F:..... V:..... T:.....	Item	
56	Clause 3.7 - Services - known F:..... V:..... T:.....	Item	
57	Clause 3.8 - Services - unknown F:..... V:..... T:.....	Item	
58	Clause 3.9 - Protection of trees F:..... V:..... T:.....	Item	
59	Clause 3.10 - Articles of value F:..... V:..... T:.....	Item	
60	Clause 3.11 - Inspection of adjoining protection F:..... V:..... T:.....	Item	
Carried Forward			R
Section No 1 Bill No 1 Preliminaries			

Brought Forward			R
Management of contract (B4)			
61	Clause 4.1 - Management of the works F:..... V:..... T:.....	Item	
62	Clause 4.2 - Programme for the works F:..... V:..... T:.....	Item	
63	Clause 4.3 - Progress meetings F:..... V:..... T:.....	Item	
64	Clause 4.4 - Technical meetings F:..... V:..... T:.....	Item	
65	Clause 4.5 - Labour and plant records F:..... V:..... T:.....	Item	
Samples, shop drawings and manufacturer's instructions (B5)			
66	Clause 5.1 - Samples of materials F:..... V:..... T:.....	Item	
67	Clause 5.2 - Workmanship samples F:..... V:..... T:.....	Item	
68	Clause 5.3 - Shop drawings F:..... V:..... T:.....	Item	
69	Clause 5.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item	
Carried Forward			R
Section No 1 Bill No 1 Preliminaries			

Brought Forward

R

Temporary works and plant (B6)

70 Clause 6.1 - Deposits and fees
 F:..... V:.....
 T:.....

Item

71 Clause 6.2 - Enclosure of the works
 F:..... V:.....
 T:.....

Item

72 Clause 6.3 - Advertising
 F:..... V:.....
 T:.....

Item

73 Clause 6.4 - Plant equipment, sheds and offices
 F:..... V:.....
 T:.....

Item

74 Clause 6.5 - Main notice board
 F:..... V:.....
 T:.....

Item

75 Clause 6.6 - Subcontractors' notice board
 F:..... V:.....
 T:.....

Item

Temporary services (B7)

76 Clause 7.1 - Location
 F:..... V:.....
 T:.....

Item

77 Clause 7.2 - Water
 F:..... V:.....
 T:.....

Item

78 Clause 7.3 - Electricity
 F:..... V:.....
 T:.....

Item

Carried Forward

R

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Brought Forward		R
79	Clause 7.4 - Telecommunication facilities F:..... V:..... T:.....	Item
80	Clause 7.5 - Ablution facilities F:..... V:..... T:.....	Item
Prime cost amounts (B8)		
81	Clause 8.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	Item
Attendance on N/S Subcontractors (B9)		
82	Clause 9.1 - General attendance F:..... V:..... T:.....	Item
83	Clause 9.2 - Special attendance F:..... V:..... T:.....	Item
84	Clause 9.3 - Commissioning - fuel, water and electricity F:..... V:..... T:.....	Item
Financial aspects (B10)		
85	Clause 10.1 - Statutory taxes, duties and levies F:..... V:..... T:.....	Item
86	Clause 10.2 - Payment for preliminaries F:..... V:..... T:.....	Item
87	Clause 10.3 - Adjustment of preliminaries F:..... V:..... T:.....	Item
Carried Forward		R
Section No 1 Bill No 1 Preliminaries		

Brought Forward		R
88	Clause 10.4 - Payment certificate cash flow F:..... V:..... T:.....	Item
General (B11)		
89	Clause 11.1 - Protection of the works F:..... V:..... T:.....	Item
90	Clause 11.2 - Protection / isolation of existing / sectionally occupied works F:..... V:..... T:.....	Item
91	Clause 11.3 - Security of the works F:..... V:..... T:.....	Item
92	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	Item
93	Clause 11.5 - Disturbance F:..... V:..... T:.....	Item
94	Clause 11.6 - Environmental disturbance F:..... V:..... T:.....	Item
95	Clause 11.7 - Works cleaning and clearing F:..... V:..... T:.....	Item
96	Clause 11.8 - Vermin F:..... V:..... T:.....	Item
Carried Forward		R
Section No 1 Bill No 1 Preliminaries		

Brought Forward		R
97	<p>Clause 11.9 - Overhand work</p> <p>F:..... V:..... T:.....</p>	Item
98	<p>Clause 11.10 - Instruction manuals and guarantees</p> <p>F:..... V:..... T:.....</p>	Item
99	<p>Clause 11.11 - As built information</p> <p>F:..... V:..... T:.....</p>	Item
100	<p>Clause 11.12 - Tenant installations</p> <p>F:..... V:..... T:.....</p>	Item
Schedule of variables (B12)		
101	<p>Clause 12.1 - Schedule of variables</p> <p>F:..... V:..... T:.....</p> <p>This schedule contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries</p> <p>Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule. Key cross reference clauses are italicised in [] brackets</p> <p><u>12.1 Pre-tender information</u></p> <p>12.1.1 - Provisional bills of quantities [2.2]</p> <p style="padding-left: 40px;">The quantities are provisional Yes</p>	Item
Carried Forward		
<p>Section No 1 Bill No 1 Preliminaries</p>		R

Brought Forward	R
<p>12.1.2 - Availability of construction information [2.3]</p> <p style="padding-left: 40px;">Construction documentation is complete No</p>	
<p>12.1.3 - Interests of agents [2.4] Details:</p>	
<p>12.1.4 - Defined works area [3.1] Details:</p>	
<p>12.1.5 - Geotechnical investigation [3.2] Details:</p>	
<p>12.1.6 - Existing premises occupied [3.4] Details:</p>	
<p>12.1.7 - Previous work - dimensional accuracy [3.5] Details:</p>	
<p>12.1.8 - Previous work - defects [3.6] Details:</p>	
<p>12.1.9 - Services - known [3.7] Details:</p>	
<p>12.1.10 - Protection of trees [3.9] Details:</p>	
<p>12.1.11 - Inspection of adjoining properties [3.11] Details:</p>	
<p>12.1.12 - Enclosure of the works [6.2] Details:</p>	
<p>12.1.13 - Offices [6.4.3]</p>	
<p style="padding-left: 40px;">Specific requirements:</p> <p style="padding-left: 40px;">The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times</p>	
<p>Carried Forward</p>	<p>R</p>
<p>Section No 1 Bill No 1 Preliminaries</p>	

Brought Forward

R

12.1.14 - Main notice boards [6.5]

Specific requirements:

The **contractor** shall provide, erect where directed, maintain and remove on completion of the **works** a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering

12.1.15 - Subcontractor's notice board [6.6]

A notice board is required	Yes
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12.1.16 - Water [7.2]

Option A (by contractor)	No
Option B (by employer - free of charge)	No
Option C (by employer - metered)	Yes

12.1.15 - Electricity [7.3]

Option A (by contractor)	No
Option B (by employer - free of charge)	No
Option C (by employer - metered)	Yes

12.1.18 - Telecommunications [7.4]

Telephone	Yes
Facsimile	Yes
E-mail	Yes

Carried Forward

R

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Brought Forward	R
12.1.19 - Ablution facilities [7.5]	
Option A (by contractor)	Yes
Option B (by employer)	No
12.1.20 - Protection of existing/sectionally occupied works [11.2]	
Protection is required	No
12.1.21 - Special attendance [9.2]	
Not applicable	
12.1.22 - Protection of the works [11.1]	
Specific requirements	
12.1.23 - Disturbance [11.5]	
Specific requirements:	
The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent	
12.1.24 - Environmental disturbance [11.6]	
Specific requirements: No specific requirements	
<u>12.2 Post-tender information</u>	
12.2.1 - Payment of preliminaries [10.2]	
Option A (prorated)	No
Option B (calculated)	Yes
12.2.2 - Adjustment of preliminaries [10.3]	
Option A (three categories)	Yes
Option B (detailed breakdown)	No
12.2.3 - Additional agreed preliminaries [10.2]	
Details:	
F:..... V:.....	
T:.....	
Carried Forward	R
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Preliminaries	

Item

Brought Forward

R

SECTION C: SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

102 C1.0 Contract drawings

* The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

F:..... V:.....
T:.....

Item

103 C2.0 Preambles

The document "Construction Works: Specifications: General Specification (PW371-A) Edition 2.0" is obtainable on the Department's website (<http://www.publicworks.gov.za/> under "Consultants Guidelines"), and shall be read in conjunction with the **bills of quantities / lump sum document** and be referred to for the full descriptions of work to be done and materials to be used

The document "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.0" is issued together with the drawings and shall be read in conjunction with the drawings and the **bills of quantities / lump sum document**

F:..... V:.....
T:.....

Item

104 C3.0 Trades names

Carried Forward

R

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Brought Forward		R
	<p>Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>F:..... V:..... T:.....</p>	
105	<p>C4.0 Imported materials and equipment</p> <p>Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer)</p> <p>Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)</p> <p>F:..... V:..... T:.....</p>	Item
106	<p>C5.0 Viewing the site in security areas</p> <p>The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes</p> <p>F:..... V:..... T:.....</p>	Item
107	<p>C6.0 Commencement of works in security areas</p>	Item
Carried Forward		R
<p>Section No 1 Bill No 1 Preliminaries</p>		

Brought Forward

R

As the **works** falls within a security area the **contractor** must give the unit commander or other responsible officer notice before commencement of the **works**. Should the **contractor** fail to make such arrangements, admission to the **site** may be refused and any additional costs will be for the **contractor's** accountg

F:..... V:.....
T:.....

Item

108 C7.0 Entrance permits to security areas

As the **works** falls within a security area the **contractor** shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer

F:..... V:.....
T:.....

Item

109 C8.0 Security check of personnel

The **principal agent** may require the **contractor** to have his personnel and workmen, or a certain number of them, security classified

In the event of the **principal agent** requesting the removal of a person or persons from the **works** for security reasons, the **contractor** shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the **works** and the **site** and/or to any document or information relating to the **works**

F:..... V:.....
T:.....

Item

110 C9.0 Prohibition on taking of photographs

Carried Forward

R

Section No 1
Bill No 1
Preliminaries

Brought Forward

In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister

The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959

F:..... V:.....
T:.....

Item

111 C10.0 HIV/AIDS awareness

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

C10.1 Awareness champion

Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification

F:..... V:.....
T:.....

Item

Carried Forward

Section No 1
Bill No 1
Preliminaries

R

R

Brought Forward		R
<p>C10.2 Awareness workshops</p> <p>Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</p> <p>F:..... V:..... T:.....</p>	Item	
<p>C10.3 Posters, booklets, videos, etc</p> <p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p> <p>F:..... V:..... T:.....</p>	Item	
<p>C10.4 Access to condoms</p> <p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p> <p>F:..... V:..... T:.....</p>	Item	
<p>C10.5 Monitoring</p> <p>Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification</p> <p>F:..... V:..... T:.....</p>	Item	
<p>112 C11.0 Occupational health and safety act</p>		
Carried Forward		R
<p>Section No 1 Bill No 1 Preliminaries</p>		

Brought Forward

R

The **contractor** shall comply with all the requirements as set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)

It is required of the **contractor** to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**

The **contractor** must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained

F:..... V:.....
T:.....

Item

113 C12.0 Employment and training of youth workers on the Expanded Public Works Programme (EPWP) infrastructure projects: National Youth Service (NYS)

Carried Forward

R

Section No 1
Bill No 1
Preliminaries

Brought Forward

R

The **contractor** shall comply with all the requirements as set out in the "Additional Specification SL: Employment and Training of Youth Workers on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service (NYS)" as attached to these **bills of quantities**

The **contractor** shall identify a minimum number of youth workers from a priority list, and shall employ them at the statutory labour rates for a minimum period and train them, all as per the aforementioned specification and as elsewhere measured in these **bills of quantities**

The **contractor** shall liaise and co-ordinate with the **employer** and the EPWP Training Service Provider with regard to the priority list, the selection of youth workers, and the employment and training of the identified youth workers

The **contractor** shall avail the services of an adequately qualified foreman specifically for the EPWP-NYS youth workers, to act as their construction supervisor. The foreman will be responsible for continually monitoring the progress of the youth workers and for addressing questions and issues that may arise from the youth workers

Separate items which will be subject to remeasurement have been included elsewhere in these **bills of quantities** to cover the direct costs associated with the employment and training of the youth workers. Any additional requirements in respect of the aforementioned specification are deemed to be priced hereunder and no additional claims in this regard shall be entertained

F:..... V:.....
T:.....

Item

114 C13.0 Implementation of labour-intensive infrastructure projects under the Expanded Public Works Programme (EPWP)

Carried Forward

R

Section No 1
Bill No 1
Preliminaries

Brought Forward

R

The **contractor** shall comply with all the requirements of the “Code of Good Practice for Employment and Conditions of Work for Special Public Works Programmes” issued in terms of the “Basic Conditions of Employment Act, 1997 (Act No 75 of 1997)” and the related “Ministerial Determination”, for the employment of locally employed temporary workers on a labour- intensive infrastructure project under the Expanded Public Works Programme (EPWP)

The **contractor** shall maintain daily records with regard to the workers employed and shall, on a monthly basis, submit a report to the **principal agent** in the prescribed format. Compulsory indicators such as the project budget, actual project expenditure, number of job opportunities created, demographic characteristics of workers employed, minimum daily wage rate, number of person-days of employment created and number of training person-days, shall be included in said report, all as defined in the “Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP)”

Provision for pricing of compliance with the aforementioned is made under this clause and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained

F:..... V:.....
T:.....

Item

SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

Carried to Final Summary

R

Section No 1
Bill No 1
Preliminaries

Item No	Quantity	Rate	Amount
<p>SECTION 2</p>			
<p>BILL NO 1</p>			
<p>DEMOLITIONS</p>			
<p>The "Model Preambles for Trades" (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in this document</p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p><u>View site</u></p>			
<p>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p>			
<p><u>Explosives</u></p>			
<p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p>			
<p><u>General</u></p>			
<p>Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent</p>			
<p>Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site</p>			
<p>Carried Forward</p>		R	
<p>Section No 2 Bill No 1 Demolitions</p>			

Item No	Quantity	Rate	Amount
<p>SECTION 2</p>			
<p>BILL NO 2</p>			
<p>ALTERATIONS</p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p>SUPPLEMENTARY PREAMBLES</p>			
<p><u>View site</u></p>			
<p>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p>			
<p><u>Explosives</u></p>			
<p>No explosives whatsoever may be used for alteration purposes unless otherwise stated</p>			
<p><u>General</u></p>			
<p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p>			
<p>Doors, fanlights, windows, fittings, frames, linings, etc which are to remain the property of the employer shall be carefully taken out, temporarily stored, transported over a distance of approximately 10km to store and handed over to the employer</p>			
<p>Carried Forward</p>		R	
<p>Section No 2 Bill No 2 Alterations</p>			

Brought Forward		R
<p>Doors, fanlights, windows, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)</p>		
TEMPORARY BARRICADES, SCREENS, ETC		
Temporary barricades, screens, roofs, etc including removal (provisional)		
1	<p>Drywall barrier 2,400mm high formed of galvanised steel channel section rails and studs covered on one side with 12,7mm gypsum board panels and finished with two coats interior quality PVA emulsion paint on one side including corners, ends, etc</p> <p style="text-align: right;">m</p>	284
REMOVAL OF EXISTING WORK		
Breaking up and removing unreinforced concrete		
2	<p>Steps (provisional)</p> <p style="text-align: right;">m3</p>	7
Carried Forward		R
<p>Section No 2 Bill No 2 Alterations</p>		

Brought Forward			R
3	85mm Thick surface beds	m2	66
Breaking down and removing brickwork, etc			
4	Half brick walls	m2	30
5	One brick walls	m2	5
Taking out and removing doors, windows, etc, including thresholds, sills, etc to be demolished (building up openings and making good finishes elsewhere)			
6	Timber single door and frame not exceeding 2.5m ²	No	1
Taking out doors, windows, etc, including thresholds, sills, etc, setting aside for re-use and later refixing in similar new position			
7	Timber single door and frame not exceeding 2.5m ²	No	3
8	Timber double door and frame exceeding 2.5m ² and not exceeding 5m ²	No	2
9	Glazed steel window not exceeding 2.5m ²	No	3
Taking down and removing roofs, floors, panelling, ceilings, partitions, etc			
10	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	271
11	Gutters and holder brackets and preparing edge of timber truss for new gutter and holder brackets (new gutters and holder brackets elsewhere)	m	105
12	Rainwater pipes and holder bats including making good hole in brickwork where holder bats were removed (new Coprox external plaster elsewhere)	m	21
13	Fascias and barge boards	m	11
14	Corrugated iron roof covering and timber purlins to be examined for leaks	m2	383
15	Flashings and linings for re-use	m	75
16	Concrete roof to be checked for leaks	m2	3
Carried Forward			R
Section No 2			
Bill No 2			
Alterations			

Brought Forward			R
Taking out and removing sundry joinery work, fittings, etc			
17	Timber cornices from brickwork (Provisional)	m	15
18	Timber skirtings from brickwork	m	24
19	Timber sills	m	18
Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc			
20	Tiles to floors	m2	272
Take out, clean and set aside existing paving to be re-used			
21	Paving	m2	645
BUILDING UP OPENINGS			
Brickwork in NFP bricks in class II mortar in building up openings			
22	Half brick walls (provisional)	m2	3
23	One brick walls	m2	1
MAKING GOOD OF FINISHES, ETC			
Making good cement screeds			
24	Floors where half brick walls removed	m	11
25	Floors where one brick walls removed	m	2
Making good internal cement plaster			
26	Walls where half brick walls removed	m2	1
27	Walls where one brick walls removed	m2	1
28	Walls in patches	m2	25
Carried Forward			R
Section No 2			
Bill No 2			
Alterations			

Brought Forward

R

PREPARATORY WORK TO EXISTING SURFACES

29	Hacking up existing surface bed to receive screed	m2	272
30	Existing windows to be scraped off existing paint and repaint including repairing broken glass	No	16
31	Make good steps all around and hack up existing steps to receive screed and porcelain tiles	m2	2
32	Making good internal existing walls by cleaning walls with sugar soap or water soluble degreaser	m2	387
33	Making good external existing walls by cleaning walls with sugar soap or water soluble degreaser	m2	250

Carried Forward to Summary of Section No. 2

R

Section No 2
 Bill No 2
 Alterations

Item No	Quantity	Rate	Amount
SECTION 2			
BILL NO 3			
EARTHWORKS (PROVISIONAL)			
For preambles refer to "Model Preambles for Trades"			
SUPPLEMENTARY PREAMBLES			
<u>Nature of ground</u>			
A soils investigation has been carried out on site. Refer to Annexure A herewith for the geotechnical report. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured			
<u>General earthworks and bulk excavation</u>			
1.	All construction, testing, tolerances and materials to be as per the SANS 1200 Series of Specifications		
2.	Degree of accuracy 2 shall apply to all earthworks dimensions, levels and setting out points		
3.	The principal agent shall be notified if the excavation or subgrade is in rock		
4.	All unsuitable materials ie roots, concrete pipes, old foundations, building rubble, etc shall be disposed of to a suitable dumping site to be located by the contractor		
5.	Suitable and approved materials shall be stockpiled separately as required for the works and later be reused as specified by the principal agent		
6.	The contractor is to use only approved fill material, where appropriate, as specified by the principal agent		
Carried Forward			R
Section No 2 Bill No 3 Earthworks			

Brought Forward	R
<p>7. The contractor is to identify and expose, where relevant, all underground services on site and he is to liase with all relevant authorities for the location and protection of these services</p>	
<p>8. All backfilling is to be in 150mm layers to 93% at a moisture content at or in excess of the Mod AASHTO optimum to required levels</p>	
<p>9. Setting out points shall be established by a registered land surveyor employed by the contractor</p>	
<p>10. The contractor is to confirm positions of boundary pegs with the land surveyor employed by the employer, before excavation commences</p>	
<p>11. In the case where the benchmark or any other beacon is disturbed by the contractor it shall be replaced by a registered land surveyor at the cost of the contractor</p>	
<p>12. The contractor shall timeously submit field and laboratory test results of relative compaction densities, CBR indicator tests or any other test results, as required, to the principal agent. The contractor shall employ a commercial laboratory to perform all required tests at frequencies to be specified by the principal agent</p>	
<p>13. The contractor shall employ a registered land surveyor to compile and submit a survey report in a format to be determined by the principal agent prior to acceptance of the completed earthworks</p>	
<p>14. An "as built" survey must be provided after completion of the earthworks</p>	
<p><u>Subterranean water</u></p>	
<p>No subterranean water is expected</p>	
<p>Carried Forward</p> <p>Section No 2 Bill No 3 Earthworks</p>	<p>R</p>

Brought Forward		R
<u>Excavation for working space in rock</u>		
Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be		
<u>Carting away of excavated material</u>		
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site		
<u>Filling</u>		
Notwithstanding the reference to prescribed multiple handling in clause 1 page 10 of the Standard Method of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material		
<u>Testing and quality control</u>		
Prices for filling are to include for all necessary density tests in accordance with SANS 1200D		
<u>Classification of excavated material</u>		
Filling over site shall be spread, levelled, watered and consolidated in layers not exceeding 300mm		
Filling under floors and backfilling to excavations shall be suitable inert material, free from clay, vegetable matter, large stones, etc., having a maximum plasticity index of 10, spread, levelled and compacted to a density of 93% Mod AASHTO		
SITE CLEARANCE, ETC		
Site clearance		
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2 1,913
REMOVAL OF TREES, ETC		
Carried Forward		R
Section No 2 Bill No 3 Earthworks		

Brought Forward			R
Taking out and removing, grubbing up roots and filling in holes			
2	Tree stump exceeding 200mm and not exceeding 500mm girth	No	9
3	Tree exceeding 500mm and not exceeding 1,000mm girth	No	4
4	Tree stump exceeding 1m high, exceeding 1,000mm and not exceeding 2,000mm girth	No	3
BULK EXCAVATION, FILLING, ETC			
Digging up topsoil			
5	Digging up topsoil to an average depth of 150mm and carting away from site	m2	1,510
Platform earthworks site clearance designated borrow pit			
6	Opening up and closing up the designated borrow pit and dealing with the overburden		SUM
Open face excavation in earth over sloping site			
7	Open face excavation	m3	4,871
Extra over bulk excavations in earth for excavation in			
8	Soft rock	m3	516
9	Hard rock	m3	1,546
Extra over bulk excavations in earth for breaking up and removing			
10	Brickwork	m3	2
11	Unreinforced concrete	m3	1
12	Reinforced concrete	m3	1
Carried Forward			R
Section No 2 Bill No 3 Earthworks			

Brought Forward			R
Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 93% Mod AASHTO density			
13	Not exceeding 500mm deep for placing and removing formwork to walls etc, 1,000mm away from excavated face	m2	88
14	Extra over for excavation in soft rock	m2	9
15	Extra over for excavation in hard rock	m2	4
Extra over all excavations for carting away			
16	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1,915
Risk of collapse of excavations			
17	Sides of bulk excavations exceeding 1.5m deep	m2	573
18	Sides of bulk excavations exceeding 1,5m deep	m2	215
Keeping excavations free of water			
19	Keeping excavations free of water other than subterranean water		Item
FILLING, ETC			
Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density			
20	In prescribed stock piles on site	m3	1,589
21	Over site to form platforms	m3	4,417
Earth filling supplied by the contractor compacted to 95% Mod AASHTO density of minimum G6 material			
22	Over site to form platforms	m3	2,512
Carried Forward			R
Section No 2			
Bill No 3			
Earthworks			

Brought Forward			R
Compaction of surfaces			
23	Compaction of natural or excavated ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	1,472
Existing services			
24	Specialist equipment for detection of location of services		SUM
25	Excavate by hand in soft material to expose existing services		SUM
TESTS			
26	"Modified AASHTO Density" test	No	100
EXCAVATION, FILLINGS, ETC			
Excavation in earth not exceeding 2m deep			
27	Trenches	m3	483
28	Holes	m3	31
Excavation in earth exceeding 2m and not exceeding 4m deep			
29	Holes	m3	7
Extra over trench and hole excavations in earth for excavation in			
30	Soft rock	m3	2
31	Hard rock	m3	9
Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 95%			
Extra over all excavations for carting away			
32	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	201
Carried Forward			R
Section No 2 Bill No 3 Earthworks			

Brought Forward			R
Risk of collapse of excavations			
33	Sides of trench and hole excavations not exceeding 1.5m deep	m2	631
Keeping excavations free of water			
34	Keeping excavations free of all water other than subterranean water		Item
Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density			
35	Backfilling behind retaining walls	m3	139
36	Backfilling to trenches, holes, etc	m3	25
Filling of graded crushed stone (G), consolidated			
37	Under floors etc	m3	124
38	Behind retaining walls	m3	28
G6 filling supplied by the contractor, compacted to 95% Mod AASHTO density			
39	Under floors, steps, pavings, etc	m3	591
Compaction of surfaces			
40	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	985
FILTER FABRIC			
Non-woven continuous filament needle punch polyester filter fabric blanket with 350mm laps			
41	Under stone filled gabion mattresses including preparing ground surface under	m2	826
42	Vertically behind stone filled gabion retaining walls	m2	277
SOIL POISONING, ETC			
Carried Forward			R
Section No 2			
Bill No 3			
Earthworks			

Brought Forward			R
Soil insecticide			
43	Under floors, etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	985
44	To bottoms and sides of trenches, etc	m2	1,061
Carried Forward to Summary of Section No. 2			R
Section No 2			
Bill No 3			
Earthworks			

Item No	Quantity	Rate	Amount
<p>SECTION 2</p>			
<p>BILL NO 4</p>			
<p>CONCRETE, FORMWORK AND REINFORCEMENT</p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p>SUPPLEMENTARY PREAMBLES</p>			
<p><u>Cost of tests</u></p>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p>			
<p><u>Formwork</u></p>			
<p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p>			
<p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p>			
<p>Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p>			
<p>Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1.5m and not exceeding 3.5m high unless otherwise described</p>			
<p>Carried Forward</p>		R	
<p>Section No 2 Bill No 4 Concrete, formwork and reinforcement</p>			

Brought Forward			R
<p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p>			
UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES			
15MPa/19mm concrete			
1	Steps, urinal steps, cupboard platforms, etc	m3	4
2	Surface blinding under footings and bases	m3	26
REINFORCED CONCRETE CAST IN/ON FORMWORK			
25MPa/19mm concrete			
3	In filling in hollow walls (walls measured elsewhere)	m3	28
30MPa/19mm concrete			
4	Surface beds cast in panels on waterproofing	m3	95
5	Slabs including beams and inverted beams	m3	164
6	Isolated beams	m3	25
7	Walls	m3	38
8	Columns	m3	13
REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES			
30MPa/19mm concrete			
9	Strip footings	m3	145
10	Bases	m3	7
11	V-drain channel cast in panels	m3	8
Carried Forward			R
<p>Section No 2 Bill No 4 Concrete, formwork and reinforcement</p>			

Brought Forward			R
TEST BLOCKS			
12	Making and testing 150 x 150 x 150mm concrete strength test cube	No	600
CONCRETE SUNDRIES			
Finishing top surfaces of concrete smooth with a wood float			
13	Surface beds, slabs, etc	m2	985
Finishing top surfaces of concrete smooth with a steel trowel			
14	Tops of beams, walls, etc	m2	105
"Isoboard" high density 32-36kg/m³ rigid extruded polystyrene 100% closed cell insulation boarding			
15	600 x 30mm Thick with tongue and groove joints laid tightly butted on concrete to receive screed (screed elsewhere)	m2	1,799
Grooves, channels, mortices, sinkings, etc in concrete			
16	20 x 20mm Channels in top	m	222
ROUGH FORMWORK (DEGREE OF ACCURACY II)			
Rough formwork to sides			
17	Strip footings (Provisional)	m2	75
18	Retaining walls	m2	94
19	Rectangular columns	m2	32
20	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	195
SMOOTH FORMWORK (DEGREE OF ACCURACY II)			
Carried Forward			R
Section No 2			
Bill No 4			
Concrete, formwork and reinforcement			

Brought Forward				R
Smooth formwork to sides				
21	Rectangular columns	m2	244	
22	Walls	m2	254	
23	Inverted beams	m2	465	
24	Beams	m2	65	
25	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	877	
26	Edges, risers, ends and reveals exceeding 300mm high or wide	m2	33	
Smooth formwork to soffits				
27	Slabs propped up not exceeding 3.5m high	m2	226	
28	Slabs exceeding 250mm and not exceeding 500mm thick, propped exceeding 3.5m but not exceeding 5m high	m2	133	
Smooth formwork to sides and soffits				
29	Beams propped up not exceeding 3.5m high	m2	9	
30	Beams propped up exceeding 3.5m but not exceeding 5m high	m2	126	
Boxing out smooth formwork to form				
31	25 x 25mm Vertical chamfers at corners	m	229	
Smooth formwork to form				
32	Opening exceeding 1m and not exceeding 2m girth through not exceeding 255mm slab	No	3	
33	Opening exceeding 2m and not exceeding 3m girth through not exceeding 255mm slab	No	2	
MOVEMENT JOINTS, ETC				
Expansion joints with 10mm polystyrene between vertical concrete surfaces				
34	Exceeding 300mm high to edges of slabs	m2	350	
Carried Forward				R
Section No 2				
Bill No 4				
Concrete, formwork and reinforcement				

Brought Forward			R
"Jointex" or similiar approved isolation joints with 10mm closed cell expanded polyethylene between vertical concrete and brick surfaces			
35	Not exceeding 300mm high to edges of surface beds	m	214
Saw cut joints			
36	3 x 40mm Saw cut joints in top of concrete	m	168
Vertical joggle construction joints through concrete including thick cement slurry to one face			
37	Surface beds not exceeding 300mmm thick	m	131
38	Slabs not exceeding 300mm thick	m	95
HOLES ETC			
Core drilling hole not exceeding 50mm diameter			
39	255mm Thick reinforced concrete slab, beam, wall, etc	No	2
Core drilling hole exceeding 50mm and not exceeding 100mm diameter			
40	255mm Thick reinforced concrete slab, beam, wall, etc	No	2
Core drilling hole exceeding 100mm and not exceeding 150mm diameter			
41	255mm Thick reinforced concrete slab, beam, wall, etc	No	3
SLEEVES			
PVC sleeves for pipes not exceeding 100mm diameter			
42	Sleeve not exceeding 250mm long	No	6
43	Sleeve exceeding 250mm and not exceeding 500mm long	No	8
44	Sleeve exceeding 500mm and not exceeding 750mm long	No	4
Carried Forward			R
Section No 2			
Bill No 4			
Concrete, formwork and reinforcement			

Brought Forward			R
PVC sleeves for pipes exceeding 100mm diameter but not exceeding 200mm diameter			
45	Sleeve not exceeding 250mm long	No	20
46	Sleeve exceeding 250mm and not exceeding 500mm long	No	12
REINFORCEMENT			
Mild steel reinforcement			
47	10mm Diameter bars (provisional)	t	2.76
48	8mm Diameter bars (provisional)	t	4.23
High tensile steel reinforcement			
49	32mm Diameter bars (provisional)	t	1.59
50	25mm Diameter bars (provisional)	t	9.74
51	20mm Diameter bars (provisional)	t	2.35
52	16mm Diameter bars	t	1.44
53	12mm Diameter bars	t	19.37
54	10mm Diameter bars	t	6.42
Fabric reinforcement			
55	Type 193 mesh reinforcement in concrete surface beds, slabs, etc	m2	985
56	Type 245 mesh reinforcement in concrete surface beds, slabs, etc	m2	334
Carried Forward to Summary of Section No. 2			R
Section No 2			
Bill No 4			
Concrete, formwork and reinforcement			

Item No	SECTION 2	Quantity	Rate	Amount
	<p>BILL NO 5</p> <p>PRECAST CONCRETE</p> <p>For preambles refer to "Model Preambles for Trades"</p> <p>SUPPLEMENTARY PREAMBLES</p> <p><u>Sizes</u></p> <p>Blocks, sills, etc measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the Architect for approval before moulds are made</p> <p><u>General</u></p> <p>Where kerbstones, blocks, etc are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming</p> <p>PRECAST CONCRETE COPINGS</p> <p>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</p>			
1	460 x 70mm Thick overall copings in 1,915mm lengths on top of one brickwalls	m	272	
	<p>PRECAST CONCRETE WINDOW VENT BLOCKS</p> <p>230 x 230 x 115mm Precast vent blocks bedded and jointed in slow-setting class II mortar with continuous joints in both directions and pointed in tinted mortar on both sides with recessed horizontal and vertical joints</p>			
2	In 230mm walls, opening 2,400 x 1,200mm	No	2	
	Carried Forward to Summary of Section No. 2			R
	Section No 2 Bill No 5 Precast concrete			

Item No	Quantity	Rate	Amount
<p>SECTION 2</p>			
<p>BILL NO 6</p>			
<p>MASONRY</p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p>SUPPLEMENTARY PREAMBLES</p>			
<p>BRICKWORK</p>			
<p><u>Sizes in descriptions</u></p>			
<p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p>			
<p><u>Hollow walls</u></p>			
<p>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</p>			
<p><u>Bagged and sealed walls</u></p>			
<p>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 bitumen emulsion waterproofing coating</p>			
<p><u>Face bricks</u></p>			
<p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
<p><u>Pointing</u></p>			
<p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p>			
<p>Carried Forward</p>		R	
<p>Section No 2 Bill No 6 Masonry</p>			

Brought Forward			R
FOUNDATIONS			
Brickwork of NFX bricks (14MPa nominal compressive strength) in class II mortar			
1	Half brick walls	m2	10
2	One brick walls	m2	426
3	330mm Hollow walls to receive concrete infill (measured elsewhere)	m2	277
SUPERSTRUCTURE			
Brickwork of NFP bricks in class II mortar			
4	Half brick walls	m2	157
5	Half brick linings tied to concrete	m2	145
6	One brick walls	m2	1,538
7	One and a half brick walls	m2	184
BRICKWORK SUNDRIES			
8	Closing 110mm cavities of hollow walls vertically with brickwork half brick wide	m	27
9	Closing 110mm cavities of hollow walls vertically with brickwork one brick wide	m	33
Air bricks, etc			
10	229 x 76mm Clay vermin proof air brick (provisional)	No	25
Joint forming material in movement joints			
11	10mm Softboard joint between concrete and brickwork	m2	24
12	12mm "Sondor" or similar approved, closed cell material with polyethylene joint sealant movement joint built in vertically between brick skins	m2	38
13	12mm Bitumen impregnated fibre board built in vertically between brick skins	m2	76
Carried Forward			R
Section No 2 Bill No 6 Masonry			

Brought Forward			R
2,5mm Brickwork reinforcement			
14	75mm Wide reinforcement built in horizontally	m	1,009
15	150mm Wide reinforcement built in horizontally	m	10,275
Prestressed fabricated concrete lintels including necessary temporary supports			
16	110 x 75mm Lintels in lengths not exceeding 3m	m	58
17	110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4.5m	m	118
18	110 x 75mm Lintels in lengths exceeding 4.5m and not exceeding 6m	m	53
19	110 x 75mm Lintels in lengths exceeding 10.5m and not exceeding 12m	m	44
20	110 x 75mm Lintels in lengths exceeding 12m and not exceeding 13.5m	m	26
Galvanised hoop iron cramps, ties, etc			
21	40 x 1.6mm wall tie 500mm long with one end shot pinned to concrete and other end built into brickwork	No	1,586
22	30 x 1,6mm Wall tie 500mm long with one end cast into concrete and other end built into brickwork	No	566
23	30 x 1,6mm Roof tie 1,5m long with one end built into brickwork and other end fixed to timber	No	250
FACE BRICKWORK			
"Corobrick" face bricks pointed with recessed horizontal and vertical joints			
24	Extra over brickwork for face brickwork in foundations (Provisional)	m2	145
25	Extra over brickwork for face brickwork	m2	792
26	Extra over brickwork for brick-on-edge header course bands one course high	m	215
Carried Forward			R
Section No 2			
Bill No 6			
Masonry			

		Brought Forward			R
27	Extra over brickwork for brick-on-end soldier course lintels one course high, pointed on face and 220mm soffit		m	24	
		Brick-on-edge header course copings, sills, etc of "Corobrick" face bricks, pointed with flush joints on all exposed faces			
28	130mm Wide sills set sloping and slightly projecting		m	78	
		GLASS BLOCK WALLS			
		190 x 190 x 80mm Type translucent glass blocks bedded and jointed in slow-setting class II mortar with continuous joints in both directions and pointed in tinted mortar on both sides with recessed horizontal and vertical joints			
29	220mm Walls		m2	1	
		Carried Forward to Summary of Section No. 2			R
		Section No 2			
		Bill No 6			
		Masonry			

Item No	SECTION 2	Quantity	Rate	Amount
	BILL NO 7			
	WATERPROOFING			
	For preambles refer to "Model Preambles for Trades"			
	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			
	DAMP-PROOFING OF WALLS AND FLOORS			
	One layer of 375 micron polyolefin DPC embossed damp proof course			
1	In walls	m2	61	
	One layer of 250 micron smooth green polyolefin waterproof sheeting sealed at laps			
2	Under surface beds	m2	985	
	WATERPROOFING TO ROOFS, BASEMENTS, ETC			
	4mm "Derbigum SP" waterproofing membrane			
3	On flat roofs and gutters not exceeding 25 degrees from the horizontal	m2	226	
4	Additional membrane 150mm girth at internal and external angles	m	583	
5	Additional membrane at 110mm diameter outlet	No	9	
	Carried Forward			R
	Section No 2 Bill No 7 Waterproofing			

Brought Forward			R
"Cemflex" acrylic based emulsion waterproofing system including "Cemflex" fabric membrane mixed and applied in accordance with the manufacturer's recommendations			
6	On bottoms and sides of plant boxes	m2	528
7	Extra over for additional membrane at 110mm diameter outlet	No	14
One layer "a.b.e" 'bituprime' primer, with one layer "a.b.e." 4mm 'Unigum' waterproofing membrane with 100mm side laps and 150mm end laps, sealed to primed surface by toch-fusion, to receive a "a.b.e." 8mm 'abedrain' HD polyethylene drainage and protection layer			
8	To sides of retaining walls	m2	277
"Sealoflex" flexible acrylic waterproofing system, including "G1" non-woven polyester reinforcing membrane			
9	220mm Wide on tops of parapet and balustrade walls	m	126
PROTECTIVE STONE DRESSING			
Clean crushed stone dressing free of pyrite or other contaminants, of 20 - 25mm stone evenly spread with larger stones around outlets			
10	50mm Thick on waterproofing to flat roofs	m2	226
PROTECTIVE ROOFING PAINT			
Two coats "Silvakote" bituminous aluminium paint			
11	On waterproofing to roofs	m2	226
SEALING STRIPS, JOINT SEALANTS, ETC			
Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc			
12	3 x 10mm In saw cut joints in floors	m	168
13	10 x 10mm In isolation joints in floors including raking out expansion joint filler as necessary	m	214
Carried Forward			R
Section No 2			
Bill No 7			
Waterproofing			

Item No	SECTION 2	Quantity	Rate	Amount
	<p>BILL No 8</p> <p>ROOF COVERINGS, ETC</p> <p>For preambles refer to "Model Preambles for Trades"</p> <p>PREAMBLES</p> <p>The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in this document</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Descriptions of all roof coverings are deemed to include for all straight cutting</p> <p>The quantities in this bill are provisional and will be recalculated on completion of the contract and valued at bill rates</p> <p>The "Klip-Lok" roof sheeting and all accessories are to be fixed by means of patent clips all in accordance with the manufacturer's specifications</p> <p>Prices shall include for the supply, delivery, unloading if required, hoisting and fastening in position to steel purlins</p> <p>PROFILED METAL SHEETING AND ACCESSORIES</p> <p>0,58mm Light industrial "ZincAL Klip-Lok 700" or other equal and approved galvanised Z275 spelter troughed sheet steel with "Classicoat" or other equal and approved finish on one side in single lengths fixed to timber purlins or rails and 0,8mm embossed galvanised sheet steel accessories with "Classicoat" or other equal and approved finish on one side</p>			
1	Underlay of 250 micron plastic sheeting with 75mm lapped and sealed joints fixed concurrently with purlins (<u>provisional</u>)	m2	1,799	
	Carried Forward			R
	Section No 2 Bill No 8 Roof coverings			

Brought Forward			R
2	Roof covering with pitch not exceeding 25 degrees	m2	1,799
3	Soffit cladding	m2	72
4	Ridge	m	126
5	Extra for cranking roof sheeting through 15 degrees to form ridge	m	126
6	Circular cutting	m	101
7	Ridge end cap	No	14
8	Birdproofing	m	252
ROOF LOUVRES			
"Brownbuilt" or other equal and approved mild steel ZincAl coated triangular louvres fixed to roof sheeting installed strictly as per manufacturer's recommendations			
9	Side cladding/triangular louvres	m2	70
SHEET METAL FLASHINGS, LININGS, COPINGS, ETC			
0,8mm galvanised sheet metal with "classicoat" or equal approved finish on both sides			
10	Purpose made apex flashing 750mm girth with one edge bent semi-circular to 65mm radius and other edge bent and notched to suite Brownbuilt Klip-Lok 700 profile to form broad flute closer to full depth of roof sheeting	m	126
11	Barge flashing, 550mm girth	m	116
12	Valley lining 580mm girth with narrow broad flute closers raking	m	132
13	Headwall flashing, 375mm girth	m	25
14	Side wall flashings 462mm girth	m	33
15	Counter flashings 185mm girth	m	33
16	Drip flashing, 231mm girth	m	45
Carried Forward			R
Section No 2			
Bill No 8			
Roof coverings			

Brought Forward		R
"Everite Nutec" High density plain fibre-cement and barge boards or similar approved fascia boards		
17	10 x 150mm Fascias and barge boards, including galvanised steel H-profile jointing strips	m 37
18	10 x 255mm Fibre cement fascia board, including galvanised steel H-profile jointing strips	m 116
ROOF INSULATION		
"Sisalation FR 405" double sided reflective aluminium foil insulation		
19	Insulation laid taut over purlins and fixed concurrent with roof covering, on and white PVC coated straining wire spaced at 400mm centres double-sided tape at edges where required	m2 1,799
Carried Forward to Summary of Section No. 2		R
Section No 2		
Bill No 8		
Roof coverings		

Item No	Quantity	Rate	Amount
<p>SECTION 2</p>			
<p>BILL NO 9</p>			
<p>CARPENTRY AND JOINERY</p>			
<p>SUPPLEMENTARY PREAMBLES</p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p><u>Fixing</u></p>			
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p>			
<p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p>			
<p><u>Joinery</u></p>			
<p>Descriptions of frames shall be deemed to include frames, transomes, rails, etc</p>			
<p>Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p>			
<p><u>Decorative thermosetting plastic laminate covering</u></p>			
<p>Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish</p>			
<p>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION, ETC</p>			
<p>The tender is for the design, supply and installaiton of roof trusses complete with purlins, bracing, wall plates, etc as indicated on the drawings issued</p>			
<p>The tenderer is to provide an engineer's certificate of compliance</p>			
<p>Carried Forward</p>		R	
<p>Section No 2 Bill No 9 Carpentry and Joinery</p>			

Brought Forward		R
The roof covering will be ZincAL Kliplok 700 profile roof sheeting with an underlay of "Sisalation FR 405" double sided reflective aluminium foil insulation		
Ceilings will be suspended ceilings throughout		
Dimensions and descriptions of trusses are nominal and actual measurements and actual dimensions are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences		
SAWN SOFT ROOF CONSTRUCTION		
LABOUR CENTRE		
1	Design and supply roof construction to double pitched roof including hips and valley intersections, trusses, rafters, permanent bracing, etc complete with wall plates complete as per drawing SLC A 104 roof plan	Item
NEW GARAGE		
2	Design and supply roof construction to double pitched roof with two hipped ends, 22,000 x 6,000mm overall on plan x 2,900mm high overall, including trusses, rafters, permanent bracing, etc complete with wall plates complete as per drawing SLC A 104 roof plan	Item
DOORS, ETC		
Solid core flush doors with 3mm masonite panels both sides, hung to aluminium frames		
3	44mm Thick door 900 x 2,465mm high	No 6
Semi-solid core flush doors with 3mm masonite panels both sides, hung to aluminium frames		
4	44mm Thick door 900 x 2,032mm high	No 8
5	44mm Thick door 900 x 2,125mm high	No 12
Carried Forward		R
Section No 2 Bill No 9 Carpentry and Joinery		

Brought Forward		R
6	<p>"Bitcon" or similar approved fire doors with "masonite" cladding</p> <p>Class B fire door 1,000 x 2,125mm high including 1.6mm mild steel single rebated frame suitable for a one brick wall, <u>one and a half pair of 100mm heavy duty 4,2mm thick flanged mild steel hinges with nylon washers,</u> and preparing frame for door closer and lock and <u>all other ironmongery as per architect's specification</u></p> <p style="text-align: right;">No 1</p>	
7	<p>"Geze" or similar approved fire doors with "Masonite" cladding</p> <p><u>Class B double leaf 2 hour fire door 1,600 x 2,125mm solid masonite, with 2mm thick galvanised metal plate both sides, galvanised channel edging all round, weather bar, 2,0mm thick pre-primed 1.6mm mild steel metal door frame double rebate</u> with a 25mm rebate <u>suitable for one brick wall, one and a half pair of 100mm heavy duty 4,2mm thick flanged mild steel hinges with nylon washers, all other ironmongery as per architect's specification</u></p> <p style="text-align: right;">No 1</p>	
BEADS, ARCHITRAVES, ETC		
8	<p>"Medium density fibre cement board"</p> <p>15 x 375mm Girth window sills, plugged</p> <p style="text-align: right;">m 64</p>	
FITTINGS		
SUPPLEMENTARY PREAMBLES		
<p>The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc</p> <p>The contractor must clearly note that prices for all cupboards, kitchen units, etc must include for everything as described in the foregoing and following preambles, samples units, prior approval by the representative/agent, etc and no claim in this regard will be entertained</p>		
Carried Forward		R
<p>Section No 2 Bill No 9 Carpentry and Joinery</p>		

Brought Forward		R
All kitchen units shall be made of MDF supawood material		
Sides, shelves and bottoms to be 16mm thick MDF supawood with factory applied melamine finish and with 2mm thick PVC finishing to edges		
All floor units to have kickplates of 16mm MDF supawood and laminated with "Renolit Laminate" or other equal and approved, on front face		
All floor units to have skirtings on all exposed sides and back panels of 70 x 22mm black melamine veneered supawood skirting, fixed to kickplates		
All floor units to have four approved steel powder coated levellers per unit		
Tops are to be 30mm black engineered granite or other equal and approved engineered granite. All edges to be sealed with silicone		
Doors and fronts are to be 16mm thick MDF supawood with "Melamine" or other equal and approved finish, and with 2mm PVC finish to edges		
All hinges must be internal concealed "Hettich" type or other equal and approved, with a minimum 100,000 cycle test guarantee		
All units must be inclusive of all necessary cross strutting, cleats and concealed fixing brackets, screws, etc		
Drawer runners must be metal with nylon runners of "Hettich" type and quality, or other equal and approved, and with a 30kg load capacity and a 100,000 cycle test guarantee		
KITCHEN CUPBOARDS		
Kitchen cupboards, etc with approved hinges, handles and telescopic drawer slides (as per drawing A 401 sheet 1 of 2 and sheet 2 of 2)		
9	Floor cupboard 630 x 600 x 900mm high with sides, bottom, shelf, back and a single hinged doors	No 1
10	Floor cupboard 1,260 x 600 x 900mm high with sides, bottom, shelf, back and two single hinged doors	No 3
Carried Forward		R
Section No 2 Bill No 9 Carpentry and Joinery		

Brought Forward			R
11	Drawers 500 x 450 x 768mm high overall with sides, bottom and back	No	1
COUNTERS AND WORK TOPS			
30mm Thick black engineered granite or other equal and approved top with square edges			
12	600mm Wide counter top	m	5
13	Extra on worktop for cut out for 1,200 x 535mm sit on sink bowl (sink elsewhere measured)	No	1
14	600mm Wide vanity including mild steel support brackets	m	66
SHELVING			
<u>The following in resource centre shelving (As per architect's drawing A400 Rev 1)</u>			
32mm Thick MDF panels with factory applied melamine finish with 2mm thick PVC edging or other equal and approved clad shelf screwed to steel bracket			
15	430mm Wide vertical panel	m	30
16	320mm Wide horizontal panel	m	6
19mm Thick MDF horizontal panels with factory applied melamine finish with 2mm thick PVC edging or other equal and approved clad shelf fitted in between 32mm vertical panels screwed to steel bracket			
17	960 x 380mm Wide shelf	No	30
18	960 x 380mm Wide shelf	No	20
19mm Thick MDF vertical backing panel with factory applied melamine finish with 2mm thick PVC edging or other equal and approved clad shelf screwed to steel bracket			
19	Panel	m2	25
JOINERY			
Carried Forward			R
Section No 2 Bill No 9 Carpentry and Joinery			

Brought Forward				R
<u>The following in client services area (As per architect's drawing A407 Sheet 1 of 2 and sheet 2 of 2)</u>				
32mm Thick MDF panels with factory applied melamine finish with 2mm thick PVC edging or other equal and approved clad shelf screwed to steel bracket				
20	2,680 x 1,500mm High vertical panel	No	7	
21	1,448 x 750mm High vertical panel	No	6	
Cabinet made of 16mm thick MDF supawood with factory applied melamine finish and with 2mm thick PVC finishing to edges etc with approved hinges, handles and telescopic drawer slides (as per drawing A 407 sheet 1 of 2 and sheet 2 of 2)				
22	Floor cabinet 500 x 425 x 750mm high with sides, bottom, shelf, back, a single hinged doors and one drawer	No	6	
32mm Thick Mahogany veneered MDF supawood counter top or other equal and approved top				
23	500mm Wide counter top	m	10	
24	700mm Wide counter top with pvc grommet to match colour of worktop	m	12	
25	350mm Wide counter top	m	12	
Mild steel tubing				
26	<u>60mm Diameter polished aluminium vertical tubing welded to 3mm thick end plates and screwed to floor and suspended bulkhead</u>	No	7	
Carried Forward to Summary of Section No. 2				R
Section No 2				
Bill No 9				
Carpentry and Joinery				

Item No	SECTION 2	Quantity	Rate	Amount
	<p>BILL NO 10</p> <p>CEILINGS, PARTITIONS AND ACCESS FLOORING</p> <p>For preambles refer to "Model Preambles for Trades"</p> <p>SUPPLEMENTARY PREAMBLES</p> <p><u>Descriptions</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p><u>Bulkheads</u></p> <p>Bulkheads are those areas of the ceiling which are at a level differing from the general ceiling in a particular room or area and which generally occur along the perimeter of the room or area. Their purpose is either to conceal services or to create an architectural feature by changing levels</p> <p>Bulkheads will only be measured as such when they conform with the above description and when the horizontal or vertical dimensions do not exceed 1.2m. Should these dimensions be more than 1.2m then the horizontal or vertical ceilings will be included in the general ceiling measurements</p> <p>CEILINGS, ETC</p> <p>"Aerolite" or similar approved insulation</p>			
1	135mm Insulation closely fitted and laid on top of branderling between roof timbers, etc	m2	896	
	Carried Forward			R
	<p>Section No 2</p> <p>Bill No 10</p> <p>Ceilings, partitions and access flooring</p>			

Brought Forward			R
Sawn softwood			
2	40 x 40mm Cornices, nailed	m	51
NAILED UP CEILINGS			
"Everite Nutec" or other equal and approved fibre cement ceiling boards with branders as indicated and with cross branders at all joints and where cornices are fixed at right angles to the branders, fixed with and including H-Profile galvanised steel jointing strips			
3	6mm Thick ceiling boards including 38 x 50mm sawn softwood brandering at maximum 300mm centres	m2	10
4	Extra over ceiling for opening for 1,200 x 100mm light fitting (provisional)	No	8
"Everite Nucornice" or other equal and approved			
5	70mm Coved cornices	m	23
SUSPENDED CEILINGS			
Proprietary suspended ceilings			
1,200 x 600 x 15mm "OWAcoustic Sinfonia White" or other equal and approved mineral fibre ceiling panels on a pre-painted exposed tee suspension system with a reveal edge including main and cross tees, necessary hangers, grids, etc			
6	Ceilings suspended not exceeding 1m below timber trusses at approximately 1,400mm centres	m2	759
7	Extra over ceiling for opening for 600 x 1,200mm light fitting (provisional)	No	76
8	Extra over ceiling for 600 x 600mm opening for ventilation/air conditioning diffuser (provisional)	No	20
Carried Forward			R
Section No 2			
Bill No 10			
Ceilings, partitions and access flooring			

Brought Forward			R
1,200 x 600 x 15mm "OWAcoustic Cosmos/N" or other equal and approved mineral fibre ceiling panels on a pre-painted exposed tee suspension system with a reveal edge including main and cross tees, necessary hangers, grids, etc			
9	Ceilings suspended not exceeding 1m below timber trusses at approximately 1,400mm centres	m2	127
10	Extra over ceiling for opening for 50mm diameter downlighter (provisional)	No	36
11	Extra over ceiling for opening for 600 x 1,200mm light fitting (provisional)	No	2
12	Extra over ceiling for opening for 1,200 x 100mm light fitting (provisional)	No	5
13	Extra over ceiling for 600 x 600mm opening for ventilation/air conditioning diffuser (provisional)	No	2
"Donn" or other equal and approved cornices, perimeter trims to suspended ceilings			
14	SM25 or equal approved pre-painted recessed shadowline wall angle (colour : black), plugged	m	371
15	SM25 or equal approved pre-painted recessed shadowline wall angle (colour : white), plugged	m	217
9,5mm Gypsum plasterboard ceiling on screw-up tee suspension grid including hangers etc, with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface			
16	Ceilings suspended not exceeding 1m below timber trusses at approximately 1,400mm centres	m2	51
17	Horizontal portion of bulkheads 600mm wide, suspended not exceeding 1m below timber trusses at approximately 1,400mm centres	m	127
18	Horizontal portion of bulkheads 200mm wide, suspended not exceeding 1m below timber trusses at approximately 1,400mm centres	m	76
19	Horizontal portion of bulkheads 300mm wide, suspended not exceeding 1m below timber trusses at approximately 1,400mm centres	m	89
Carried Forward			R
Section No 2			
Bill No 10			
Ceilings, partitions and access flooring			

Brought Forward			R
20	Vertical portion of bulkheads 400mm high, suspended not exceeding 1m below timber trusses at approximately 1,400mm centres	m	199
21	Vertical portion of bulkheads 170mm high, suspended not exceeding 1m below timber trusses at approximately 1,400mm centres	m	154
22	Vertical portion of bulkheads 250mm high, suspended not exceeding 1m below timber trusses at approximately 1,400mm centres	m	56
23	Vertical portion of bulkheads 500mm high, suspended not exceeding 1m below timber trusses at approximately 1,400mm centres	m	65
24	Horizontal portion of bulkhead 800mm wide, suspended not exceeding 1m below timber purlins, varies between 600mm and 1150mm centres (trusses between 1m and 2m centres) as per architect's drawings, details and provisional roof truss layout drawing	m	78
"Pelican Systems" cornices, perimeter trims, etc to suspended ceilings			
25	PS6 or other equal and approved pre-painted (colour : black) shadowline wall angle for flush plastered ceilings, plugged	m	151
PARTITIONS, ETC			
DRYWALL PARTITIONS			
SUPPLEMENTARY PREAMBLES			
<u>"Gyproc GypWall Classic" system</u>			
Partitions consisting of 51mm galvanised steel studs at 400mm centres as vertical support secured in matching galvanised steel floor and ceiling channels, clad on one or both sides as described, including additional studs as necessary at abutments, ends, etc. Board cladding shall be fixed and jointed in strict accordance with the manufacturer's instructions			
Unless otherwise described, prices for partitions shall be deemed to include for standard flat section aluminium skirting on boarded sides			
Carried Forward			R
Section No 2 Bill No 10 Ceilings, partitions and access flooring			

Brought Forward		R
Wall paper and paint or varnish finishes are given separately		
"51/F60S49" partitions with 15mm thick "Gyproc Firestop" board, skimmed finish on both sides and filled in with 51mm thick Isover Cavitybatt insulation in blanket form with a density of not less than 14kg/m²		
26	Partitioning 3,040mm high with bottom track plugged and top track fixed to suspended ceiling tees m	53
27	Extra over partition 3,040mm high for vertical abutment No	9
28	Extra over partition 3,040mm high for fair end No	3
29	Extra over partition 3,040mm for corners No	2
Carried Forward to Summary of Section No. 2		R
Section No 2		
Bill No 10		
Ceilings, partitions and access flooring		

Item No	Quantity	Rate	Amount
<p>SECTION 2</p>			
<p>BILL NO 11</p>			
<p>IRONMONGERY</p>			
<p>For preambles refer to "Model Preambles for Trades" and architectural ironmongery specification in part C2.2.3</p>			
<p>SUPPLEMENTARY PREAMBLES</p>			
<p><u>Proprietary items</u></p>			
<p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p>			
<p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p>			
<p>On request returnable samples are to be provided to the principal agent for consideration</p>			
<p><u>Finishes to ironmongery</u></p>			
<p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:</p>			
<p>BS Satin bronze lacquered</p>			
<p>CH Chromium plated</p>			
<p>SC Satin chromium plated</p>			
<p>SE Silver enamelled</p>			
<p>GE Grey enamelled</p>			
<p>AN Anodised natural</p>			
<p>AS Anodised silver</p>			
<p>AB Anodised bronze</p>			
<p>AG Anodised gold</p>			
<p>ABL Anodised black</p>			
<p>PB Polished brass</p>			
<p>PL Polished and lacquered</p>			
<p>PT Epoxy coated</p>			
<p>SD Sanded</p>			
<p>LOCKS</p>			
<p>Carried Forward</p>		R	
<p>Section No 2 Bill No 11 Ironmongery</p>			

R

Brought ForwardKeys

Unless otherwise described locks shall have two keys each

"EN-SUITE" LOCKS

The following locks are to be suitable for master and grand master key operation

Manufactured by "Geze" or other equal and approved

1	"195/01" Stainless steel mortice indicator bathroom lockset	No	9
2	"325/51" 76mm single cylinder sashlock	No	13
3	"342/51" 76mm single cylinder deadlock	No	5
4	"642/35" Euro cylinder deadlock	No	14
5	"625/35" Euro cylinder sashlock with drawback latch	No	16
6	"662/35" Euro cylinder deadlock with stainless steel roller bolt	No	3
7	"850-60/78" 5 Pin master key double cylinder lockset	No	19
8	"850-66/78" 5 Pin nickel plated double cylinder lockset	No	6
9	"880-66/78" 5 Pin nickel plated double cylinder lockset	No	1
10	"885-66/78" 5 Pin nickel plated knob cylinder lockset	No	6
11	"892-66/78" 5 Pin nickel plated single cylinder lockset	No	4
12	"894-66/78" 66mm nickel plated cylinder bath/WC indicator	No	1
13	"ED908/CYL" Stainless steel cylinder escutcheon	Pairs	3
14	"IG950930308" 60mm Nickel plated double cylinder lock	No	5
15	"130/81" Rebate conversion set to steel doors and steel frames	No	8
16	"GZZWDUSTK" Nickel plated dust excluding flush bolt	No	2

Carried Forward

R

Section No 2
Bill No 11
Ironmongery

Brought Forward			R
17	"870/60/71" 50mm Padlock	No	6
18	150mm "120/150" flush bolt	No	4
HANDLES			
Manufactured by "Geze" or other equal and approved			
19	"075/JD152" Pull handle 6XCSK with 160 x 300 x 1,6mm stainless steel back plate	Pairs	5.0
20	"EDD104C069" Sanford 19mm handle complete with cylinder escutcheon	Pairs	13.0
21	"JBS209OS/350BTB" Stainless steel pull handle offset	Pairs	5
22	"JD213/111 BTB" 130 x 111 x 19mm stainless steel pull handle	Pairs	8
23	"JD213/305 F" 305 CTC flange stainless steel pull handle	Pairs	2
24	"DB171BNC01" Tokyo lever handle on N/style backplate	Pairs	16
25	"HZ3120SR" Exidor silver double panic bolt (pullman) handles	Pairs	1.0
26	"EDE101C69" 160 x 160 x 1,6mm stainless steel back plate with daytona lever pull handle	Pairs	4
PUSH PLATES AND KICK PLATES			
Manufactured by "Geze" or other equal and approved			
27	"079/300/B" 300 x 150mm Push plate	No	5
28	"080/300" 300 x 900 x 0.9mm Stainless steel kick plate	No	24
DOOR CLOSERS			
Manufactured by "Geze" or other equal and approved			
29	"AZ1503SR" Door closer complete with sliver standard guide rail	No	4
Carried Forward			R
Section No 2			
Bill No 11			
Ironmongery			

Brought Forward			R
30	"AZ2003SR" Door closer with guide rail	No	2
31	"AZ3003SR" TS3000 Door closer complete with guide rail	No	1
32	"AZ3034SR" TS3000 Door closer complete with ISM guide rail	No	1
33	"AZ4001DA" Door closer complete with delayed closing w/soffit bracket	No	1
LETTERS, NAMEPLATES, ETC			
Manufactured by "Geze" or other equal and approved			
34	160 x 160mm "079/160E/F" stainless steel plate with female symbol	No	2
35	160 x 160mm "079/160E/M" stainless steel plate with male symbol	No	2
36	160 x 160mm "079/160E/P" stainless steel plate with paraplegic symbol	No	1
37	150 x 150mm Ref IF4/IF5/E1/E2/E3F5/F6/F4/E6 anodised aluminium plate with fire exit, fire extinguisher, fire hose reel or fire hydrant symbol	No	25
SUNDRIES			
Manufactured by "Geze" or other equal and approved			
38	"154/69" Stainless steel hat and coat hook	No	8
39	"140/69" stainless steel floor mounted door stop, plugged	No	32
IRONMONGERY TO ALUMINIUM DOORS			
Manufactured by "Geze" or other equal and approved			
40	Ironmongery for type for door type D01 as per ironmongery specification		Item
41	Ironmongery for type for door type D02 as per ironmongery specification		Item
Carried Forward			R
Section No 2 Bill No 11 Ironmongery			

Brought Forward			R
42	Ironmongery for type for door type D15 as per aluminium manufacturer	Item	
43	Ironmongery for type for door type D20 as per aluminium manufacturer	Item	
44	Ironmongery for type for door type D21 as per manufacturer	Item	
PHOTOLUMINESCENT SIGNS			
SUPPLEMENTARY PREAMBLES			
Signs are to comply with SANS 1186-1 to 5 and to be to the approval of the local authority. Signs are to have anodised aluminium frames			
Prices are to include for fixing by approved methods. The use of double sided tape will not be permitted. Surface mounted signs are to be concealed fixed and ceiling mounted signs are to be hung with 2mm diameter stainless steel cables			
Single sided ceiling mounted signs are to have 2mm satin chrome anodised aluminium back panels			
Signage fitted with double sided adhesive tape to centre of door leaf at 1.8m above FFL			
Samples, specifications, literature, etc of materials and fabricated articles the tenderer proposes to use shall be submitted with the tender			
A ten year guarantee on materials and workmanship shall be submitted by the successful tenderer			
References at the end of the item descriptions are to the relative items on drawings annexed to (issued separately) with these bills of quantities			
Door mounted "Assa Abloy Union" or other equal and approved signs in 152 x 152mm modules			
45	152 x 152mm Sign with one pictogram (Type e01- electrical)	No	1
46	152 x 152mm Sign with one pictogram (Type e02- tea cup)	No	1
47	152 x 152mm Sign with one pictogram (Type e10-male)	No	2
Carried Forward			R
Section No 2 Bill No 11 Ironmongery			

Brought Forward			R
48	152 x 152mm Sign with one pictogram (Type e11-female)	No	2
49	152 x 152mm Sign with one pictogram (Type e14-paraplegic)	No	1
50	152 x 152mm Sign with one pictogram (Type e17-cleaner mop and bucket)	No	1
51	152 x 152mm Sign with one pictogram (Type e18-mothers)	No	1
Ceiling mounted "Assa Abloy Union" or other equal and approved double sided photoluminescent statutory escape route signs in 190 x 190mm modules			
52	380 x 190mm Sign with two pictograms (Type E2)	No	1
53	380 x 190mm Sign with two pictograms (Type E10)	No	5
54	380 x 190mm Sign with EXIT sign (Type E6)	No	4
55	380 x 190mm Sign with fire EXIT keep clear sign (Type F46)	No	3
Wall mounted "Assa Abloy Union" or other equal and approved single sided photoluminescent statutory fire signs in 190 x 190mm modules			
56	380 x 190mm Sign with two pictograms (Type F4)	No	3
57	190 x 190mm Sign with one pictogram (Type F49)	No	1
INTERNAL SIGNAGE			
Door mounted stainless steel plate screwed to top of transome			
58	750 x 60 x 1,2mm with room name "Resource Centre" on steel plate	No	1
59	750 x 60 x 1,2mm with room name "Career Counsellor" on steel plate	No	1
60	750 x 60 x 1,2mm with room name "ESP Room" on steel plate	No	1
Carried Forward			R
Section No 2 Bill No 11 Ironmongery			

Brought Forward			R
61	750 x 60 x 1,2mm with room name "Kitchen" on steel plate	No	1
62	750 x 60 x 1,2mm with room name "Supervisors" on steel plate	No	1
63	750 x 60 x 1,2mm with room name "ASD" on steel plate	No	1
64	750 x 60 x 1,2mm with room name "COIDA" on steel plate	No	1
65	750 x 60 x 1,2mm with room name "Supervisors" on steel plate	No	1
66	750 x 60 x 1,2mm with room name "Admin Clerks" on steel plate	No	1
67	750 x 60 x 1,2mm with room name "LC Manager" on steel plate	No	1
68	750 x 60 x 1,2mm with room name "Committee Room 1" on steel plate	No	1
69	750 x 60 x 1,2mm with room name "Committee Room 2" on steel plate	No	1
70	750 x 60 x 1,2mm with room name "Photocopier" on steel plate	No	1
71	750 x 60 x 1,2mm with room name "InspectorS" on steel plate	No	1
72	750 x 60 x 1,2mm with room name "Team LeaderS" on steel plate	No	1
73	750 x 60 x 1,2mm with room name "G Inspectors" on steel plate	No	1
74	750 x 60 x 1,2mm with room name "ASD COIDA" on steel plate	No	1
75	750 x 60 x 1,2mm with room name "Caucas room" on steel plate	No	1
76	160 x 160 x 1,2mm steel plate	No	4
Carried Forward			R
Section No 2 Bill No 11 Ironmongery			

Brought Forward

R

EXTERNAL SIGNAGE

77	Branding signage "Department of Labour" calibri greek font lettering 610mm high cut out of 3mm polished aluminium plate, fixed to 40 x 40mm angles, complete as per drawing A504	No	1
78	Branding signage "Department of Labour" logo 2,290mm high cut out of 3mm polished aluminium plate, fixed to 40 x 40mm angles, complete as per drawing A504	No	1

Carried Forward to Summary of Section No. 2

R

Section No 2
 Bill No 11
 Ironmongery

Item No	Quantity	Rate	Amount
SECTION 2			
BILL NO 12			
STRUCTURAL STEELWORK (PROVISIONAL)			
For preambles refer to "Model Preambles for Trades"			
SUPPLEMENTARY PREAMBLES			
Structural steel components and the calculation of masses are in accordance with "Structural Steel Tables" issued by the South African Institute of Steel Construction			
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			
Prices for structural steelwork are to include for all cutting, fitting, fastening, welding, drilling of holes or slotted holes, bolts, nuts, washers, rivets, etc for bolting and welding components together either in the place of manufacture or on site and for surface preparation and finishing off as specified			
Prices shall include for the supply, delivery, unloading if required, hoisting and erecting of the rafters, beams, etc on top of walls, beams or slabs, truly plump and square at the required centres, including all bracing necessary during fixing			
The structural engineer is to be consulted should the contractor require any additional information regarding the rafter and beam layout and/or design. The contractor shall also inspect the drawings before submitting prices for such rafters and beams as no claims for extra compensation will be entertained should the contractor not comply with the above instruction			
Carried Forward		R	
Section No 2 Bill No 12 Structural steelwork			

Brought Forward		R
<u>Descriptions</u>		
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		
WORKSHOP DRAWINGS		
1	The contractor is required to prepare and submit to the engineer detailed workshop drawings including site erection details and receive the engineer's written approval thereof before any manufacturing is commenced	Item
STEEL COLUMNS AND BEAMS		
Welded columns in single lengths with flat section base, top, bearer and connection plates bolted to concrete		
2	254 x 146mm x 31kg/m I-section column	t 0.39
3	160 x 80 x 3,5mm Rectangular hollow section column	t 0.54
4	150 x 50 x 5mm Rectangular hollow section column	t 0.22
Welded beams in single lengths with flat bearer and connection plates, bolted to concrete		
5	120 x 60mm x 3.5kg/m I-section Rectangular hollow section beams	t 0.23
STEEL PURLINS, GIRTS, BRACING, ETC		
Purlins and girts, bolted to steel		
6	40 x 40 x 3mm Angle girts	t 0.65
Carried Forward		R
Section No 2 Bill No 12 Structural steelwork		

Brought Forward

R

BOLTS, FASTENERS, ETC

7	High tensile bolts (class 8.8)	t	0.15
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PAINTWORK

Touch up red oxide primer, one coat universal undercoat and two coats non-drip polyurethane enamel paint on steel

8	Structural steel trusses, etc (provisional)	t	80.17
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Carried Forward to Summary of Section No. 2

R

Section No 2
 Bill No 12
 Structural steelwork

Item No	Quantity	Rate	Amount
<p>SECTION 2</p>			
<p>BILL NO 13</p>			
<p>METALWORK</p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p>SUPPLEMENTARY PREAMBLES</p>			
<p><u>Descriptions</u></p>			
<p>Descriptions of bolts shall be deemed to include nuts and washers</p>			
<p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p>			
<p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p>			
<p>Attention is drawn to the fact that all stated sizes of aluminium units are approximate only and it is the contractor's responsibility to take all necessary site measurements before commencing with any manufacturing work</p>			
<p>In as far as possible, the tenderer is to allow for standard glass sheet sizes for the shopfront panels and where required is to allow for neat butt joints within a shopfront panel so as to minimise any wastage of glass</p>			
<p>A set of drawings must be prepared, submitted to and approved by the architect and principal agent, before any work is put in hand, and prices must make due allowance therefore</p>			
<p>Prices are to include for the design, supply and installation of all units, packing and filler pieces, smoke and fire barriers, framing, glazing beads, glazing gaskets, glazing, infill and spandrel panels, flashings, ironmongery and furniture unless otherwise indicated, etc. as described, specified or indicated on the schedules and/or drawings, for fixing in prepared openings in brick or block walls and pointing all round on both sides with suitable sealant</p>			
<p>Carried Forward</p>		R	
<p>Section No 2 Bill No 13 Metalwork</p>			

Brought Forward

R

"Sondor" strips are to be fitted to all opening sections

Aluminium shopfronts, windows and doors shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed

Installation of frames and glazing to comply with BS 1470 and A.A.A.M.S.A. / S.A.G.G.A. national regulations

All glazing shall comply with the minimum requirements of the National Building Regulations part N-Glazing and SANS 0137, SANS 10400 & SANS 1263

Where there is a conflict between the architectural schedules and anywhere else in this tender document, the architectural schedules shall take precedence

The following certificates shall be provided prior to commencement of site work:

1. A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product
2. A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively
3. A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process
4. A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked
5. A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years

Carried Forward

R

Section No 2
Bill No 13
Metalwork

Brought Forward			R
<p>Top rails of shopfronts, lobby screens, etc and doors are fixed to underside of flush plaster bulkhead ceilings below concrete slabs. Prices are to include for necessary extension brackets to tie back to the concrete soffit (shopfront stability/wind loads, etc) where required</p>			
MILD STEEL DOOR FRAME			
<p>1,6mm Single rebated frame suitable for half brick walls with three heavy duty 100mm flanged brass hinge with nylon washers per door leaf</p>			
1	Frame for door 813 x 2,032mm high	No	1
<p>1,6mm Single rebated frame suitable for one brick walls with three heavy duty 100mm flanged brass hinge with nylon washers per door leaf</p>			
2	Frame for door 813 x 2,032mm high	No	1
3	Frame for door 900 x 2,465mm high	No	4
4	Frame for double door 1511 x 2032mm high	No	1
<p>1,6mm Double rebated frames suitable for one-brick walls</p>			
5	Frame for door 1,525 x 2,100mm high	No	1
6	Frame for double door 1802 x 2032mm high	No	1
STEEL STRONGROOM DOORS, VENTILATORS, ETC			
<p>Strongroom doors etc suitable for 230mm walls fixed to brickwork or concrete</p>			
7	50mm Category 2 Heavy duty strongroom door and frame 830 x 1,940mm high overall with a mass of 480kg including bolts with and including two 7 lever security lock	No	1
WELDED STEEL SCREENS, GATES, PERGOLAS, ETC			
Carried Forward			R
<p>Section No 2 Bill No 13 Metalwork</p>			

Brought Forward		R
Gates		
8	6,500 x 2,250mm High sliding double gate comprising 100 x 50 x 4.5mm rectangular hollow section frame all welded together with mitred and welded corners, with clearVu mesh in between and hung on two pairs of hinges suitable for electronic control	No 1
9	2,800 x 2,485mm High two panel sliding gate comprising 60 x 40 x 3,5mm rectangular hollow section frame all welded together with mitred and welded corners, with clearVu mesh in between and hung on two pairs of hinges suitable for electronic control	No 1
10	1,000 x 2,250mm High single gate gates comprising 25 x 25 x 2,5mm square hollow section frame and central transome all welded together with mitred and welded corners, filled in solid with "Bekaert Bastion" 4mm "Bezinal" coated or other equal and approved grid and hung on two pairs of hinges suitable for electronic control	No 2
Screens		
11	11,070 x 4,930mm High overall galvanised entrance screen comprising 11,070 x 1,025mm top section with 40 x 40mm vertical angles welded to two 75 x 50mm rectangular hollow section beams at 100mm centres including two horizontal bottom sections, one 1,000 x 3,905mm high, the other 6,610 x 3,905mm high with 40 x 40mm vertical angles welded to 100 x 50mm rectangular hollow section columns at 100mm centres, with steel base plates chemically anchored in to concrete footings complete as per drawing A504	No 1
12	12,450 x 3,145mm High overall galvanised screen comprising one vertical section size 3,340 x 3,145mm high with 40 x 40mm vertical angles welded to two 75 x 50mm rectangular hollow section beams at 100mm centres and one horizontal section size 8,420 x 3,145mm high with 40 x 40mm vertical angles welded to 100 x 50mm rectangular hollow section columns at 100mm centres with steel base plates chemically anchored in to concrete footings complete as per drawing A505	No 1
Carried Forward		R
Section No 2 Bill No 13 Metalwork		

Brought Forward			R
Pergolas			
13	3,200 x 3,910mm High overall entrance pergola comprising three 200 x 100mm horizontal rectangular hollow section beams fixed to brickwalls on one side, other side mitred and welded to three 200 x 100mm rectangular hollow section columns complete as per drawing A500	No	1
14	9,380 x 3,155mm High overall open patio pergola comprising top section 9,380 x 1,575mm on plan with 40 x 40mm angles welded to two 120 x 80mm rectangular hollow section beams at 100mm centres, beams fixed to concrete slabs and front section with 40 x 40mm horizontal angles welded to 160 x 80mm rectangular hollow section columns at 100mm centres including 150 x 50mm rectangular hollow section columns bolted to 160 x 80mm rectangular hollow section columns with steel base plates chemically anchored in to concrete footings complete as per drawing A501 and A503	No	1
15	6,200 x 2,600mm High overall covered patio pergola comprising top section 6,200 x 985mm on plan with 40 x 40mm angles welded to two 120 x 80mm rectangular hollow section beams at 100mm centres, beams fixed to concrete slabs and front section with 40 x 40mm horizontal angles welded to 160 x 80mm rectangular hollow section columns at 100mm centres including 150 x 50mm rectangular hollow section columns bolted to 160 x 80mm rectangular hollow section columns with steel base plates chemically anchored in to concrete footings complete as per drawing A502 and A503	No	1
Fly screens			
16	2,400 x 1,200mm High overall stainless steel flyscreen mesh with black PVC coating fixed to precast concrete vent blocks internally	m2	6
SHELF ANGLES			
17	100 x 100 x 10mm Rolled steel shelf angle, built into brick work at ends	kg	27
18	100 x 100 x 10mm Rolled steel shelf angle bolted to face of concrete	kg	56
19	M12 Expansion bolt	No	28
Carried Forward			R
Section No 2 Bill No 13 Metalwork			

Brought Forward			R
SUNDRY METALWORK			
Bearers to brick linings, lintels, etc			
20	30 x 30 x 6mm Thick angle iron with fish tail lugs	m	24
21	50 x 50 x 5mm Thick angle iron with 30 x 3mm thick fish tail lugs	m	12
22	50 x 50 x 6mm Thick angle iron with 14mm diameter holes	m	8
23	90 x 90 x 6mm Thick angle iron with 30 x 3mm thick fish tail lugs	m	16
24	90 x 90 x 8mm Thick angle iron with 30 x 3mm thick fish tail lugs at 400mm centres	m	62
25	90 x 90 x 6mm Thick angle iron support 230mm long twice holed	m	24
26	90 x 90 x 8mm Thick angle iron support 230mm long twice holed	No	6
27	60 x 60 x 5mm Galvanised angle irons with 30 x 30mm fish tails lugs 150mm long at 300c/c cast into concrete 1,000mm long	No	3
28	60 x 60 x 5mm Galvanised angle irons with 30 x 30mm fish tails lugs 150mm long at 300c/c cast into concrete 1,800mm long	No	4
29	100 x 100 x 8mm Galvanised angle irons with 30 x 30mm fish tails lugs	No	6
30	150 x 150 x 10mm Angle iron support	No	10
31	M16 bolts	No	145
Fixing accessories to roof timbers etc			
32	90 x 90 x 6mm Thick angle iron support 1,400mm to roof	No	26
33	M12 Bolts	No	104
Carried Forward			R
Section No 2 Bill No 13 Metalwork			

Brought Forward			R
2,100 x 25 x 16mm "Shelco" or similar approved bands fixed to walls at 914mm centres			
34	Wall bands	m	42
2,400 x 25 x 16mm "Shelco" or similar approved bands fixed to walls at 914mm centres			
35	Wall bands	m	115
"Shelco BR336" or similar approved heavy duty brackets fitted to wall bands			
36	365mm Long shelf bracket	No	100
37	380mm Long shelf bracket	No	456
"Shelco" or similar approved shelving fixed to steel brackets			
38	365mm Wide shelving	m	64
39	380mm Wide shelving	m	371
"Shelco BR336" or similar approved floor mounted gondola wire frame including all accessories fixed to manufacturers detail and specifications			
40	25mm Wireframe	m2	73
32 x 32 x 1.6mm Thick epoxy powder coated square hollow section framed and welded together in seat frames with mitred corners bolted to floor or wall			
41	450 x 400mm "L" shaped gallows bracket with 500mm long diagonal brace	No	8
42	450 x 460mm High rectangular frame	No	78
43	570 x 460mm High rectangular base frame with maximum 120mm wide x 500mm high triangular backrest	No	23
Sundries			
44	M12 x 100mm Expansion bolt	No	201
STEEL WINDOWS, DOORS, ETC			
Carried Forward			R
Section No 2			
Bill No 13			
Metalwork			

Brought Forward			R
Standard residential windows with rolled steel sashes			
45	Window type W9, 1,750 x 750mm high	No	1
46	Window type W18 size 1,100 x 1,505mm high overall	No	1
PRESSED STEEL POWDER COATED GARAGE DOORS			
"Roll Up Serranda" or similar approved garage doors			
47	Electrically operated black powder coated finish panel door for 5,345 x 2,465mm high opening, with equal or approved mild steel guide channels mounted vertically on both sides of door opening with standard mild steel bottom rail including electrical connection and commissioning (electrical isolator elsewhere)	No	3
ALUMINIUM SHOPFRONTS, WINDOWS, DOORS, ETC			
Design, supply and installation of purpose made windows and doors with black powder coated frame finish including aluminium composite/metal pressed panels, subframes, ironmongery, glass, sealing, glazing beads, etc and fixing to brickwork, concrete or plasterboard bulkhead all complete as per architects' drawings and specifications (Refer to drawings A603 & 604)			
<u>The following glazing to be single glazed "Intruder prufe Hi impact Colourvue deep cool bronze glass" or similar approved glass, sealed with silicone fill and butyl tape back strip</u>			
48	Window type W1 size 2,080 x 800mm high overall made up of one x fixed glass panel, one sliding glass panel	No	2
49	Window type W2 size 1,800 x 800mm high overall made up of one x fixed glass panel, one sliding glass panel	No	1
50	Window type W3 size 2,920 x 800mm high overall made up of one x fixed glass panel, one sliding glass panel	No	2
51	Window type W4 size 1,500 x 800mm high overall made up of one x fixed glass panel, one sliding glass panel	No	1
Carried Forward			R
Section No 2 Bill No 13 Metalwork			

Brought Forward			R
52	Window type W5 size 4,295 x 800mm high overall made up of one x fixed glass panel, one sliding glass panel	No	2
53	Window type W6 size 2,310 x 800mm high overall made up of one x fixed glass panel, one sliding glass panel	No	1
54	Window type W7 size 3,174 x 800mm high overall made up of one x fixed glass panel, one sliding glass panel	No	1
55	Window type W8 size 2,370 x 800mm high overall made up of one x fixed glass panel, one sliding glass panel	No	2
56	Window type W10 size 12,450 x 3,040mm high overall made up of two 1,200 x 3,040mm fixed glass side panels, and two 5,025 x 3,040 high panels made of top, middle and bottom panels with glass fins	No	1
57	Window type W11 size 11,220 x 1,600mm high overall made of three bottom unequal fixed glass panels 725mm high, three to unequal fixed glass panels with three top sliding panels of unequal sizes	No	1
58	Window type W12 size 12,470 x 4,845mm high overall made up of two 1,000 x 3,846mm fixed glass side panels, 3,460 x 3,845mm opening for door, 6,910 x 3,845mm middle glass panels, including one top fixed panel 12,470,x 1,000mm high	No	1
59	Window type W13 size 10,980 x 1,600mm high overall made of three bottom unequal fixed glass panels 725mm high, three to unequal fixed glass panels with three top sliding panels of unequal sizes	No	1
60	Window type W14 size 3,990 x 1,600mm high overall made up of one fixed glass panel, one sliding glass panel	No	1
61	Window type W15 size 1,835 x 1,600mm high overall made up of one fixed glass panel, one sliding glass panel	No	1
62	Window type W16 size 1,145 x 1,600mm high overall made up of one fixed glass panel, one top hung opening section	No	1
63	Window type W17 size 750 x 1,600mm high overall made up of one fixed glass panel, one top hung opening section	No	1
Carried Forward			R
Section No 2			
Bill No 13			
Metalwork			

Brought Forward			R
<u>The following glazing to be single glazed "Intruder prufe Hi impact PVB clear glass" sealed with silicone fill and butyl tape back strip</u>			
64	Window wall 2,400mmm high	m	10
65	Window wall 3,040mmm high	m	27
Design, supply and installation of purpose made shopfronts, windows and doors with powder coated black finish as per architect's specifications (refer to drawings A600 & 601)			
<u>The following glazing to be single glazed "Intruder prufe Hi impact Colourvue "Deep cool bronze glass" sealed with silicone fill and butyl tape back strip</u>			
66	Shopfront type D1 size 3,000 x 3,570mm high overall	No	1
<u>The following glazing to be single glazed "Intruder prufe Hi impact PVB clear glass" sealed with silicone fill and butyl tape back strip</u>			
67	Shopfront type D2 size 4,670 x 3,000mm high overall	No	1
68	Shopfront type D3 size 1,500 x 3,000mm high overall	No	2
69	Door type D7 size 900 x 3,000mm high	No	3
70	Shopfront type D10 size 3,390 x 3,000mm high overall	No	1
71	Shopfront type D12 size 3,000 x 3,000mm high overall	No	1
72	Shopfront type D13 size 4,345 x 3,000mm high overall	No	1
73	Shopfront type D14 size 4,000 x 3,000mm high overall	No	2
74	Shopfront type D15 size 5,995 x 3,000mm high overall	No	1
75	Shopfront type D16 size 2,370 x 3,000mm high overall	No	1
76	Shopfront type D17 size 3,308 x 3,000mm high overall	No	2
77	Shopfront type D18 size 3,910 x 3,000mm high overall	No	1
78	Shopfront type D19 size 4,930 x 3,000mm high overall	No	1
79	Folding stacking door type D20 size 6,105 x 3,000mm	No	1
Carried Forward			R
Section No 2			
Bill No 13			
Metalwork			

Brought Forward			R
80	Shopfront type D21 size 1,400 x 3,000mm high overall	No	1
81	Shopfront type D23 size 3,520 x 3,000mm high overall	No	1
82	Shopfront type D25 size 2,010 x 3,000mm high overall	No	1
83	Door type D26 size 900 x 2,465mm high	No	1
84	Shopfront type D27 size 5,995 x 3,000mm high overall	No	1
<u>The following glazing to be single glazed "Intruder prufe Hi impact translucent glass" or similar approved glass, sealed with silicone fill and butyl tape back strip</u>			
85	Shopfront type D11 size 1,500 x 3,000mm high overall	No	1
1,6mm Single rebated purpose made natural anodised aluminium door frames suitable for half brick walls including hinges, etc			
86	Frame for door 900 x 2,032mm high	No	8
1,6mm Single rebated purpose made natural anodised aluminium door frames suitable for one brick walls, including hinges, etc			
87	Frame for door 900 x 2,125mm high	No	12
88	Frame for door 900 x 2,465mm high	No	2
NATURAL ANODISED ALUMINIUM LOUVRE UNITS			
Manufactured by "Geze"			
89	"GLO3030" Louvre unit size 300 x 300mm high	No	16
BURGLAR BARS, ETC			
"Trellidor" Cottage Guard or similar approved burglar proofing			
90	Burglar proofing to window type W1 size 2,080 x 800mm high overall	No	2
91	Burglar proofing to window type W2 size 1,800 x 800mm high overall	No	1
Carried Forward			R
Section No 2			
Bill No 13			
Metalwork			

Brought Forward			R
92	Burglar proofing to window type W3 size 2,920 x 800mm high overall	No	2
93	Burglar proofing to window type W4 size 1,500 x 800mm high overall	No	1
94	Burglar proofing to window type W5 size 4,295 x 800mm high overall	No	2
95	Burglar proofing to window type W6 size 2,310 x 800mm high overall	No	1
96	Burglar proofing to window type W7 size 3,174 x 800mm high overall	No	1
97	Burglar proofing to window type W8 size 2,370 x 800mm high overall	No	2
98	Burglar proofing to window type W9 size 1,750 x 750mm high overall	No	1
99	Burglar proofing to window type W11 size 11,220 x 1,600mm high overall	No	1
100	Burglar proofing to window type W13 size 10,980 x 1,600mm high overall	No	1
101	Burglar proofing to window type W14 size 3,990 x 1,600mm high overall	No	1
102	Burglar proofing to window type W18 size 1,100 x 1,505mm high overall	No	1
Carried Forward to Summary of Section No. 2			R
Section No 2			
Bill No 13			
Metalwork			

Item No	Quantity	Rate	Amount
<p>SECTION 2</p>			
<p>BILL NO 14</p>			
<p>PLASTERING</p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p>GRANOLITHIC</p>			
<p><u>Method</u></p>			
<p>The method to be used shall be either the monolithic method or the bonded method</p>			
<p><u>Preparation</u></p>			
<p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p>			
<p><u>Mix</u></p>			
<p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p>			
<p><u>Panels</u></p>			
<p>Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p>			
<p>Carried Forward</p>		R	
<p>Section No 2 Bill No 14 Plastering</p>			

Brought Forward			R
Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints			
<u>Laying</u>			
Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels			
Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be throughly compacted and lightly wood floated to the required levels			
After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated			
<u>Curing, seasoning and protection</u>			
Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying			
GRANOLITHIC			
Untinted granolithic, on concrete			
1	30mm Thick on floors and landings	m2	263
SCREEDS			
Screeds wood floated, on concrete			
2	40mm Thick on floors and landings	m2	1,083
3	Average 75mm thick on floors to falls and currents	m2	226
4	75 x 75mm High overall triangular fillet	m	583
INTERNAL PLASTER			
Carried Forward			R
Section No 2 Bill No 14 Plastering			

Brought Forward			R
Cement plaster wood floated for tiles, on brickwork			
5	On walls	m2	400
6	On narrow widths	m2	14
Cement plaster wood floated, on brickwork			
7	On walls	m2	282
8	On narrow widths	m2	8
Cement plaster rendering coat with gypsum skim plaster finishing coat, on brickwork			
9	On walls	m2	1,578
10	On narrow widths	m2	21
Cement plaster rendering coat with gypsum skim plaster finishing coat, on concrete			
11	On ceilings	m2	181
EXTERNAL PLASTER			
Cement plaster wood floated, on brickwork			
12	On walls	m2	643
13	On narrow widths	m2	28
Cement plaster wood floated, on concrete			
14	On projecting and isolated columns	m2	162
15	On projecting and isolated beams	m2	212
Carried Forward to Summary of Section No. 2			R
Section No 2			
Bill No 14			
Plastering			

Item No	SECTION 2	Quantity	Rate	Amount
	BILL NO 15			
	TILING			
	For preambles refer to "Model Preambles for Trades"			
	SUPPLEMENTARY PREAMBLES			
	<u>Fixing</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat			
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" range of products as recommended by the manufacturer of the tiles			
	<u>Provisional quantities</u>			
	The quantities in this bill are provisonal and will be recalculated on completion of the contract and valued at bill rates			
	WALL TILING			
	300 x 600 x 6,5mm Porcelain tiles (PC R400/m2) fixed with approved wall adhesive to plaster (plaster elsewhere) and flush pointed with approved white tile grouting - Type E			
1	On walls	m2	356	
2	On narrow widths	m2	14	
	Carried Forward		R	
	Section No 2 Bill No 15 Tiling			

Brought Forward			R
	300 x 600 x 6,5mm Porcelain tiles (PC R400/m2) fixed with approved wall adhesive to plaster (plaster elsewhere) and flush pointed with approved white tile grouting - Type F		
3	On walls	m2	44
FLOOR TILING			
	600 x 600 x 8mm Thick porcelain tiles (PC R600/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with fine epoxy waterproof grouting - Type A		
4	On floors and landings	m2	484
5	Skirting 100mm high of cut 600 x 600mm tiles	m	173
6	Circular cutting	m	9
	600 x 600 x 8mm Thick porcelain tiles (PC R600/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with fine epoxy waterproof grouting - Type B		
7	On floors and landings	m2	499
8	Skirting 100mm high of cut 600 x 600mm tiles	m	323
	600 x 600 x 8mm Thick slip resistant porcelain tiles (PC R600/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with fine epoxy waterproof grouting - Type C		
9	On floors and landings	m2	102
10	Skirting 100mm high of cut 600 x 600mm tiles	m	203
11	Circular cutting	m	17
	600 x 600 x 8mm Thick slip resistant porcelain tiles (PC R600/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with fine epoxy waterproof grouting - Type D		
12	On floors and landings	m2	100
13	Skirting 100mm high of cut 600 x 600mm tiles	m	91
Carried Forward			R
Section No 2 Bill No 15 Tiling			

Brought Forward

R

**CORNER PROTECTORS, DIVIDING STRIPS,
ETC**

**Kirk Marketing stainless steel corner protectors,
edge trims, etc fixed to brickwork or concrete**

14	M-trim ATICB100.S aluminium straight edge trim	m	790
15	M-trim ACP127.S aluminium corner protectors	m	205

Carried Forward to Summary of Section No. 2

R

Section No 2
Bill No 15
Tiling

Item No	Quantity	Rate	Amount
SECTION 2			
BILL NO 16			
PLUMBING AND DRAINAGE			
For preambles refer to "Model Preambles for Trades"			
SUPPLEMENTARY PREAMBLES			
Wire gratings			
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
Stormwater channels			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site			
Stainless steel basins, sinks, wash troughs, urinals, etc			
Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)			
Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)			
Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)			
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable			
Sealing of edges			
Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone			
Carried Forward			R
Section No 2 Bill No 16 Plumbing and drainage			

Brought Forward

R

PVC-U pipes and fittings

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 or sealed with butyl rubber rings

PVC-U pressure pipes and fittings

Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings

Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints

High density polyethylene (HDPE) pipes and fittings

Pipes shall be type IV and of the class specified with compression fittings

Pipes and fittings are to be manufactured by "Geberit" or similar approved manufacturer

"Geberit" shall provide site training prior to commencement of the works

Pipework shall be flood tested and results documented prior to and after ceiling grids are installed

Polypropylene pipes

Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings

Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions

Pipework

All pipes and fittings to be SABS approved

Carried Forward

R

Section No 2
Bill No 16
Plumbing and drainage

Brought Forward

R

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained

Fixing of pipes

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

Paper wrapping to pipes

Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings

Disinfection of water pipework

Water pipework is to be disinfected at completion

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the **principal agent** thereof prior to backfilling

"Hard rock" shall be granite or very hard material, the removal of which necessitates the use of explosives

Laying, backfilling, bedding, etc of pipes

Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

Steel sectional water tanks

Tanks shall comply with SANS CKS 114

Carried Forward

R

Section No 2
Bill No 16
Plumbing and drainage

Brought Forward			R
General			
Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete			
Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Modified AASHTO density and disposal of surplus material on site			
Descriptions of copper service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes			
Descriptions of wc pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors separately measured)			
As-built drawings			
Where required, the subcontractor shall at all times keep an updated set of "as-built" drawings. At completion of the contract the subcontractor 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)			
RAINWATER DISPOSAL			
uPVC SV pipes			
1	110mm Pipes	m	143
Extra over uPVC SV pipes for fittings			
2	110mm Bend	No	36
3	110mm Shoe	No	18
"Full-Flow" cast iron outlets with uPVC SV pipe adapters with dome grating			
4	110mm Diameter full bores	No	18
Stainless steel outlets			
5	75 x 100mm overflow spout	No	21
Carried Forward			R
Section No 2 Bill No 16 Plumbing and drainage			

Brought Forward			R	
STORMWATER DRAINAGE				
Concrete stormwater channels				
6	1,000 x 100mm V-Drain channel with mesh formed therein and finished smooth on exposed surfaces including necessary excavation and formwork	m	111	
7	Extra over rainwater channel for closed end	No	2	
Pipe culverts				
8	450mm Diameter Concrete pipe culverts and including class B bedding including spigot and socket class 50D with rubber rings	m	26	
Precast concrete circular manholes including precast concrete heavy duty cover and frame Type 4A				
9	1000mm Diameter manholes not exceeding 1m deep	No	1	Rate only
10	1000mm Diameter manholes complete exceeding 1m deep but not exceeding 1,5m deep	No	1	
11	1000mm Diameter manholes complete exceeding 1,5m deep but not exceeding 2m deep	No	1	Rate only
Precast concrete circular catchpits Type A complete with grid inlets and frames				
12	600mm Diameter catchpit not exceeding 1m deep	No	1	
13	600mm Diameter catchpit complete with exceeding 1m but not exceeding 1,5m deep	No	3	
14	600mm Diameter catchpit exceeding 1,5m but not exceeding 2m deep	No		Rate only
SOIL DRAINAGE				
uPVC Class 51 pipes				
15	50mm Pipes laid in and including trenches not exceeding 1m deep	m	44	
16	110mm Pipes vertically or ramped to cleaning eyes, etc (no excavation)	m	20	
Carried Forward			R	
Section No 2				
Bill No 16				
Plumbing and drainage				

Brought Forward			R
17	110mm Pipes laid in and including trenches not exceeding 1m deep	m	150
18	110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	53
19	110mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	10
20	160mm Pipes laid in and including trenches not exceeding 1m deep	m	55
21	160mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	75
22	160mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	7
Extra over uPVC Class 51 pipes for fittings			
23	110mm Plain bend	No	9
24	110mm End cap	No	4
25	110mm 45° Long radius bend	No	18
26	110mm 90° Long radius bend	No	2
27	110mm Access pipe	No	2
28	110mm Access bend	No	4
29	110mm Plain bend	No	22
30	110mm Plain junction	No	2
31	110mm Access junction	No	4
32	110 x 50mm Access reducing junction	No	2
33	160 x 110mm Access reducing junction	No	14
34	110mm Inspection eye	No	17
35	110mm Rodding eye	No	20
36	Cut into existing 110mm diameter pipe and insert new 110mm access junction	No	1
Carried Forward			R
Section No 2			
Bill No 16			
Plumbing and drainage			

Brought Forward			R
37	Cut into existing 160mm diameter pipe and insert new 160mm access junction	No	1
Gulleys			
38	110mm Gulley not exceeding 500mm deep	No	5
39	110mm Gulley not exceeding 750mm deep	No	2
Precast concrete circular inspection chambers including precast concrete cover slabs (covers elsewhere) and channels in benching as per drawing SLC-CIV-PD-GSM-D06 Rev 0A			
40	750mm Diameter inspection chamber not exceeding 1,5m deep internally	No	1
41	750mm Diameter inspection chamber exceeding 1,5m and not exceeding 2m deep internally	No	4
42	750mm Diameter inspection chamber exceeding 2m and not exceeding 2,5m deep internally	No	2
43	750mm Diameter inspection chamber exceeding 2,5m and not exceeding 3m deep internally	No	2
Precast concrete manholes including precast heavy duty concrete and frame Type 4A			
44	1000mm Diameter manholes not exceeding 1m deep	No	2
45	1000mm Diameter manholes complete exceeding 1m deep but not exceeding 1,5m deep	No	3
46	1000mm Diameter manholes complete exceeding 1,5m deep but not exceeding 2m deep	No	3
47	1000mm Diameter manholes complete exceeding 2m deep but not exceeding 2,5m deep	No	1
Cast iron covers, etc			
48	150 x 150 x 100mm Type 11A manhole cover and frame (Code B0796)	No	7
49	Lifting key for manhole cover	No	7
Carried Forward			R
Section No 2 Bill No 16 Plumbing and drainage			

Brought Forward			R
Connections, etc			
50	Allow for connection from 160mm uPVC pipe to Municipal main sewer line	No 1	
Sundries			
51	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m3 8	
52	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock	m3 31	
53	Extra over excavation for pipe trenches, chambers, etc for carting away surplus material to a dumping site to be located by the Contractor	m3 7	
54	Extra over backfilling to pipe trenches, chambers, etc for compaction to 95% Mod AASHTO density	m3 157	
55	Unreinforced concrete encasing 100mm thick all round to 110mm horizontal pipe	m 213	
56	Precast concrete inspection eye marker slab set in ground	No 5	
57	110mm Cast iron "ABC" cleaning eye	No 10	
58	Cutting into existing 110mm PVC pipe for and forming junction with 110mm PVC pipe	No 12	
59	Encasement of pipes in strength concrete 25MPA/19mm including all formwork, reinforcement, etc	m3	Rate only
Testing			
60	Testing drainage pipe system	Item	
SANITARY FITTINGS, ETC			
"Franke" or other equal and approved grade 304 (18/10) stainless steel standard tables with 38mm diameter stainless steel legs with adjustable flanged foot pieces, size:			
61	Stainless steel servery table 1,900 x 600 x 910mm	No 1	
62	Stainless steel table 2,400 x 650mm	No 1	
Carried Forward			R
Section No 2 Bill No 16 Plumbing and drainage			

Brought Forward		R
"Franke" or other equal and approved stainless steel		
63	Stainless steel double end bowl sink 1,200 x 535mm with two 343 x 410 x 140mm deep bowls	No 1
64	Stainless steel "HF2400HD" hand dryers (Code 359961) with two vandal proof lock screws and key wrench, plugged and screwed to wall with stainless steel screws	No 6
White vitreous china or ceramic fireclay as supplied by "Vaal Sanitaryware" or other equal and approved, sealed as recommended to walls with clear silicon sealant		
65	630 x 500mm "Sola 630" rectangular medical basin (Code 702800) with no tapholes, overflow or chainstay hole	No 1
66	570 x 455mm rectangular surface mounted vanity basin with provision for tapholes	No 10
67	"Lavatera" wall hung urinal with top inlet (Code 705426) supplied with 38mm CP domical grating (Code 8787), CP top inlet spreader and two hanger brackets	No 4
68	"Klip" 104° outlet washdown WC pan with enlarged pedestal (Code 751200) including 120mm Sigma concealed for floor mounted WC, complete with lid, fitments, double flap seat and a Sigma 50 dual flush actuator in RAL 9005 jet black finish	No 9
69	White vitreous chine 90 degree outlet wall mounted pan with lid and fitments, supplied with Gerberit or similar approved 80mm concealed cistern for paraplegic application wall mounted WC, including a Sigma 30 actuator in RAL 9005 jet black finish	No 1
"Stunning Bathrooms" or other equal and approved		
70	32mm Stainless steel cistern grab rail (Code: F18C) plugged and fixed to wall with stainless steel coach screws	No 1
71	32mm Stainless steel cranked grab rail (Code: F15C) with three mounting points plugged and fixed to wall with stainless steel coach screws	No 1
Carried Forward		R
Section No 2 Bill No 16 Plumbing and drainage		

Brought Forward			R
"Kimberley Clark Professional" or other equal and approved			
72	White electronic foam soap and sanitiser dispenser (Code U9214700) (installation by Kimberley Clarke installation team)	No	6
73	Stainless steel toilet tissue dispenser (Code SA426130) (installation by Kimberley Clarke installation team)	No	13
74	Stainless steel sanitary disposal bin	No	20
75	Stainless steel rolled paper towel dispenser (Code SAA26125)	No	5
"Serra" or other equal and approved			
76	650 x 940 x 80mm Deep vertical wall hung stainless steel recessed baby change station including built in bed liner, towel dispensers and bag hooks Code : SD9013	No	1
WASTE UNIONS, ETC			
77	32mm Unslotted waste union	No	1
78	32mm Slotted waste union	No	14
79	38mm Unslotted waste union	No	3
TRAPS, ETC			
uPVC			
80	40mm Deep seal "P" or "S" trap	No	3
81	40mm Reseal "P" or "S" trap	No	5
82	50 x 300mm Sink combination for double bowl with deep-seal "P" trap	No	1
83	110mm Rubber ring and spigot gulley trap	No	1
"Cobra Watertech" or other equal and approved			
84	75mm VA3.113 CP hinged urinal domical grating	No	2
85	32mm 340 CP bottle trap	No	21
Carried Forward			R
Section No 2 Bill No 16 Plumbing and drainage			

Brought Forward			R
86	32mm 345/50 CP bottle trap	No	3
Butyl Rubber			
87	32 x 32mm Plain "P" trap	No	2
88	40 x 40mm Plain "P" trap	No	1
89	40 x 300mm Wash trough combination	No	1
TAPS, VALVES, ETC			
Brass			
90	15mm Diameter gate valve c/w threads, flanges etc to enable complete connection	No	8
91	22mm Diameter gate valve c/w threads, flanges etc to enable complete connection	No	5
92	28mm Diameter gate valve c/w threads, flanges etc to enable complete connection	No	6
93	35mm Diameter gate valve c/w threads, flanges etc to enable complete connection	No	5
94	42mm Diameter gate valve c/w threads, flanges etc to enable complete connection	No	5
"Cobra Watertech" or other equal and approved			
95	15mm 106-15 CP toilet bibtap with Star handle	No	14
96	15mm 505-21B CP elbow action pillar tap	No	1
97	15mm 832/350F Angle regulating valve including 350mm flexi connector	No	28
98	"Flushmaster" exposed flush valve (Code: FJ6.000) or equivalent with FJT 5.5 flush pipe	No	6
SANITARY PLUMBING			
uPVC pipes			
99	40mm Diameter pipe	m	14
100	40mm Diameter pipe chased into brick walls	m	7
Carried Forward			R
Section No 2			
Bill No 16			
Plumbing and drainage			

Brought Forward				R
101	50mm Diameter pipe	m	29	
102	50mm Diameter pipe chased into brick walls	m	9	
103	110mm Diameter pipe	m	27	
104	110mm Diameter pipe laid in filling under surface bed	m	23	
Extra over uPVC pipes for fittings				
105	40mm Plain bend	No	10	
106	40mm Access bend	No	4	
107	40mm Plain junction	No	5	
108	40mm Access junction	No	2	
109	50mm Plain bend	No	30	
110	50mm Access bend	No	10	
111	50mm Plain junction	No	9	
112	50mm Access junction	No	2	
113	50 x 40mm Reducer	No	1	
114	110mm Plain bend	No	5	
115	110mm Plain junction	No	1	
116	110mm 90° Long radius plain bend	No	2	
117	110mm Pan connector	No	13	
118	110mm Access bend	No	14	
119	110mm Access junction	No	14	
120	110 x 50mm Access reducing junction	No	2	
121	110 x 75mm Access reducing junction	No	2	
122	110mm "Freeflo 400 SPVV One-way" or equal approved vent valve	No	3	
Carried Forward				R
Section No 2				
Bill No 16				
Plumbing and drainage				

Brought Forward			R
123	110mm "Freeflo 400 SPVV Two-way" or equal approved vent valve	No	2
124	110mm Rodding eye	No	16
125	110mm Stub stack	No	11
TESTING			
126	Testing waste pipe system		Item
WATER SUPPLIES			
Class 16 uPVC pressure pipes			
127	75mm Pipes laid in and including trenches	m	33
128	110mm Pipes laid in and including trenches	m	131
Extra over uPVC pressure pipes for cast iron pressure fittings			
129	75mm Bend	No	2
130	75mm Tee	No	1
131	75 x 28mm Reducer	No	1
132	110mm Bend	No	4
133	110mm Tee	No	1
134	110mm RSV gate valve	No	1
135	110mm End cap	No	1
136	110mm Cap top	No	1
Stop taps complete with adaptors, connectors, etc			
137	Stop taps	No	5
Testing			
138	Testing of site meters		Item
Carried Forward			R
Section No 2 Bill No 16 Plumbing and drainage			

Brought Forward				R
Class 1 copper pipes				
139	15mm Pipes	m	66	
140	15mm Pipes chased into brick walls	m	104	
141	15mm Pipes chased into existing brick walls, including making good with smooth cement plaster to match existing on completion	m	29	
142	22mm Pipes	m	48	
143	22mm Pipes chased into brick walls	m	39	
144	22mm Pipes chased into existing brick walls, including making good with smooth cement plaster to match existing on completion	m	14	
145	28mm Pipes	m	65	
146	28mm Pipes chased into brick walls	m	13	
147	35mm Pipes	m	64	
148	35mm Pipes chased into brick walls	m	7	
149	35mm Pipes chased into existing brick walls, including making good with smooth cement plaster to match existing on completion	m	4	
150	42mm Pipes	m	195	
Extra over class 1 copper pipes for capillary fittings				
151	15mm Fittings	No	97	
152	15mm Copper to iron adapters	No	22	
153	22mm Fittings	No	55	
154	28mm Fittings	No	27	
155	35 x 15mm Reducer	No	3	
156	35 x 22mm Reducer	No	4	
157	35 x 28mm Reducer	No	6	
Carried Forward				R
Section No 2				
Bill No 16				
Plumbing and drainage				

Brought Forward			R
158	35mm Elbow	No	2
159	35mm Tee	No	7
160	35mm Threaded adaptor	No	1
161	42 x 15mm Reducer	No	2
162	42 x 22mm Reducer	No	4
163	42 x 28mm Reducer	No	2
164	42 x 35mm Reducer	No	3
165	42mm Elbow	No	3
166	42mm Tee	No	4
167	42mm Threaded adaptor	No	1
ELECTRIC WATER HEATERS			
Hydroboil including all mountings and controls to make a complete installation with a back up 3kW element			
168	15 Litre	No	1
SOLAR WATER HEATERS			
Solar geyser including all mountings and controls to make a complete installation			
169	250 Litre with 3kW backup element	No	1
DRIP TRAYS, TANKS, ETC			
"JoJo Tanks" water tanks, etc			
170	10,000 Litre tank with flat top, including a 600mm diameter access cover, 42mm inlet and outlet connection, ball valve and level sensor indicator to pump panel, base capping plates, etc fixed base on ground level	No	2
Carried Forward			R
Section No 2 Bill No 16 Plumbing and drainage			

Brought Forward			R
"Kwikot" or other equal and approved			
171	"Prisma Deluxe" 10 litre under basin push through water heater	No	1
BOOSTER PUMPS, PIPING, VALVES, ETC			
Pump sets and control panels are to include for delivery, installation, commissioning and operation and maintenance manuals			
172	0,37kW Packaged water booster pump c/w with electric motor and pressure pump controllers set complete, comprising 1l/s duty pump @ 100kPa	No	2
173	1kW Packaged water booster pump c/w with electric motor and pressure pump controllers set complete, comprising 1500l/m duty pump @ 100kPa	No	2
FIRE APPLIANCES, ETC			
Standard c/w hose reel wall mounted bracket, hose guide, etc			
174	30m SANS 1086 PVC hose with a brass nozzle and chromium plated stopcock as per SANS 1086 EN 694	No	3
Fire extinguishers c/w wooded backing plate and mounting bracket as per drawing			
175	4.5kg DCP STP Fire extinguisher SABS 1910 approved and suitable for Class A, B or C fires, or a combination of these type of fires	No	8
176	DCP 9kg Fire extinguisher (Firemate) fitted with a high pressure discharge hose and discharge nozzle which locates onto a L-shape nozzle holder fixed to the foot ring of the extinguisher. Suitable for Class A, B or C fires, or a combination of these types. All extinguishers supplied conform to the minimum fire ratings as specified in SANS 1910:2009	No	4
177	5kg CO2 Carbon steel extinguishers is specifically designed for fires involving flammable liquids and electrical hazards, Class C and Class B fires. SANS 1567 certified carbon dioxide fire extinguishers are cased in steel or aluminium	No	2
178	590 x 890 x 285mm Fire extinguishers cabinet	No	6
Carried Forward			R
Section No 2 Bill No 16 Plumbing and drainage			

Brought Forward			R
Supply and installation of fire detection in building complete with a wired control panel (as per drawing)			
179	Zyton Conventional fire panel ZP1-F1-99 or similar approved single zone standard controls with no zone LED's fire control panel, including small cabinet	No	1
180	Approved standby 12V 26Amp hour battery	No	1
181	Zyton ZP1 or similar approved Optical Smoke Detectors fixed to ceilings, concrete, brickwork, etc	No	50
182	Zyton (code: 1-23905-K009) or similar approved conventional siren/strobe unit	No	5
183	Zyton (code: DMN700R100-KITR) or similar approved manual conventional break glass unit	No	13
184	Flashing beacon for the storerooms	No	6
185	PH200 or similar approved fire resistant wiring	m	500
Fire hydrants			
186	Unreinforced concrete hydrant pedestal 900mm high cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to octagonal shaped top 200 x 200mm overall including necessary excavation, formwork and two coats of paint to exposed surfaces	No	2
187	65mm Hydrant valves	No	2
188	Fire water booster pump c/w with a pressure tank and controllers set complete, comprising pump @ 300kPa	No	2
189	100mm Steel non-return valve	No	2
190	100mm Steel Isolating valve	No	2
191	50mm Steel Isolating valve	No	1
192	750mm Diameter precast concrete ring type valve chamber	No	1
Identification and labelling of all fire protection equipment in accordance with the specification			
193	Identification and labelling of portable extinguishers		Item
Carried Forward			R
Section No 2 Bill No 16 Plumbing and drainage			

Brought Forward				R
194	Identification and labelling of fire hose reels		Item	
195	Identification and labelling of fire hydrants		Item	
As-built drawings, technical data and operating manuals of all equipment installed				
196	Provision of as-built drawings indicating the exact position of all fire protection equipment and piping runs		Item	
197	Technical data, specification sheets and spares lists of all equipment		Item	
198	Test certificates		Item	
WATER SUPPLIES TO FIRE APPLIANCES				
Galvanised steel pipes				
199	25mm Pipes	m	160	
200	50mm Pipes	m	135	
201	80mm Pipes	m	60	
202	100mm Pipes	m	260	
Extra over galvanised steel pipes for steel fittings				
203	25mm Fittings	No	22	
204	50mm Bend	No	8	
205	50mm Tee	No	5	
206	50 x 25mm Multi-step reducer	No	8	
207	80mm Bend	No	8	
208	80mm Tee	No	5	
209	80 x 50mm Reducing bush	No	3	
210	100mm Bend	No	6	
211	100mm Tee	No	5	
212	100 x 80mm Reducing bush	No	2	
Carried Forward				R
Section No 2				
Bill No 16				
Plumbing and drainage				

Brought Forward			R
213	100 x 50mm Reducing bush	No	1
TESTING			
214	Testing potable water supply pipe system		Item
215	Testing fire water supply pipe system		Item
216	Testing soil and waste pipe system		Item
PIPE PROTECTION			
"Densyl Tape"			
217	Wrapping around 40mm pipe including couplings	m	520
218	Extra for wrapping around fittings	No	22
219	Extra for wrapping around 40mm bend	No	24
220	Extra for wrapping around 40mm tee	No	15
PIPE INSULATION			
"Thermafex Type QE40" or other equal and approved cross-linked polyethylene foam insulation, with SABS certified self-extinguishing properties and longitudinal zip type fastenings, fixed with joints taped on either side for a minimum of 40mm, using HDPE adhesive tape, to pipe size			
221	15mm Diameter	m	66
222	22mm Diameter	m	48
223	28mm Diameter	m	33
224	35mm Diameter	m	33
225	42mm Diameter	m	98
Extra on "Thermafex" or other equal and approved insulation for fittings insulated by means of preformed sections applied in staggered layers to			
226	15mm Fitting	No	49
227	22mm Fitting	No	28
Carried Forward			R
Section No 2 Bill No 16 Plumbing and drainage			

Brought Forward			R
228	28mm Fitting	No	14
229	35mm Elbow	No	2
230	35mm Tee	No	7
231	35mm Reducer	No	13
232	35mm Adapter	No	1
233	42mm Elbow	No	3
234	42mm Tee	No	4
235	42mm Reducer	No	11
SLEEVES			
Plastic sleeves for pipes not exceeding 100mm diameter			
236	Sleeve not exceeding 250mm long	No	6
237	Sleeve exceeding 250mm and not exceeding 500mm long	No	7
Plastic sleeves for pipes exceeding 100mm and not exceeding 200mm diameter			
238	Sleeve not exceeding 250mm long	No	20
239	Sleeve exceeding 250mm and not exceeding 500mm long	No	12
HOLES, ETC			
Break out hole in existing brick wall plastered both sides and later make good all round both sides to match existing (decoration measured elsewhere)			
240	Hole in 220mm thick wall for pipe not exceeding 50mm diameter	No	25
241	Hole in 220mm thick wall for pipe exceeding 50mm diameter and not exceeding 110mm diameter	No	20
Carried Forward			R
Section No 2			
Bill No 16			
Plumbing and drainage			

Brought Forward			R
Core drilling of hole for pipe not exceeding 50mm diameter			
242	250mm Reinforced concrete slab, beam, wall, etc	No	2
Core drilling of hole for pipe exceeding 50mm and not exceeding 100mm diameter			
243	250mm Reinforced concrete slab, beam, wall, etc	No	3
SUNDRIES			
As-built drawings			
244	Allow for an updated set of as-built drawings to be handed to the architect at completion of the contract		Item
Maintenance			
245	Allow for maintenance of workmanship and materials during 12 month guarantee period commencing from date of official practical completion of the project		Item
Carried Forward to Summary of Section No. 2			R
Section No 2			
Bill No 16			
Plumbing and drainage			

Item No	Quantity	Rate	Amount
SECTION 2			
BILL NO 17			
GLAZING			
SUPPLEMENTARY PREAMBLES			
For preambles refer to "Model Preambles for Trades"			
<u>Float glass</u>			
The term "float glass" is used for monolithic annealed glass			
<u>Laminated glass</u>			
Laminated glass to have polyvinyl butyral (PVB) interlayer(s)			
MIRRORS, ETC			
4mm Silvered float glass copper backed mirrors with polished bevelled edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete			
1	Mirror 3,000 x 750mm high with eight screws	No	1
2	Mirror 2,400 x 650mm high with eight screws	No	4
3	Mirror 1,800 x 650mm high with six screws	No	1
Carried Forward to Summary of Section No. 2			R
Section No 2 Bill No 17 Glazing			

Item No	SECTION 2	Quantity	Rate	Amount
	BILL NO 18			
	PAINTWORK			
	SUPPLEMENTARY PREAMBLES			
	For preambles refer to "Model Preambles for Trades"			
	COLOURS			
	Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091			
	PAINTWORK, ETC TO NEW WORK			
	ON INTERNAL FLOATED PLASTER SURFACES			
	One coat alkali plaster primer, one coat "Plascon" super acrylic polvin white paint and two coats "Plascon" super acrylic non drip paint			
1	On internal walls	m2	1,859	
2	Extra over paintwork for finishing coats in colours which have a value of 7 or less on the Munsell system in accordance with SABS 1091	m2	73	
	ON EXTERNAL FLOATED PLASTER SURFACES			
	One coat alkali resistant primer and two coats "Plascon Wall and All" or similar approved grey acrylic emulsion paint			
3	On walls and columns	m2	879	
	One coat alkali resistant primer, one under coat and two coats "Plascon Wall and All" or similar approved grey acrylic emulsion paint			
4	On concrete vent blocks	m2	12	
	Carried Forward			
	Section No 2 Bill No 18 Paintwork			R

Brought Forward			R
ON SMOOTH CONCRETE SURFACES			
One coat alkali resistant primer, one undercoat and two coats "Plascon Wall and All" acrylic emulsion paint			
5	On walls	m2	170
6	On ceilings and beams	m2	181
7	Extra over paintwork for finishing coats in colours which have a value of 7 or less on the Munsell system in accordance with SABS 1091	m2	123
ON PLASTERBOARD SURFACES			
One coat primer and two coats "Plascon" super acrylic non drip paint			
8	On partitions	m2	639
9	On ceilings and cornices including priming metal cover strips and nailheads	m2	51
ON FIBRE-CEMENT BOARD SURFACES			
One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use			
10	Window sills	m2	24
11	Fascias and barge boards including priming metal jointing strips	m2	27
ON METAL SURFACES			
One coat "Plascon" metal primer, one coat "Plascon" universal undercoat and two coats Plascon" high gloss enamel paint, on steel			
12	On door frames	m2	13
13	On window frames	m2	3
14	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	70
Carried Forward			R
Section No 2			
Bill No 18			
Paintwork			

Brought Forward			R
	<p>One coat "Plascon" metal primer, one coat "Plascon" universal undercoat and two coats Plascon Velvagro" paint, on steel</p>		
15	On doors	m2	6
	<p>ON WOOD SURFACES</p> <p>One coat primer and two coats "Plascon Velvagro" enamel paint</p>		
16	On doors	m2	114
<p>Carried Forward to Summary of Section No. 2</p>			R
<p>Section No 2 Bill No 18 Paintwork</p>			

Bill No	<u>SECTION SUMMARY - Section 2 - Building work</u>	Page No	Amount
1	Demolitions	40	
2	Alterations	45	
3	Earthworks	53	
4	Concrete, formwork and reinforcement	59	
5	Precast concrete	60	
6	Masonry	64	
7	Waterproofing	67	
8	Roof coverings	70	
9	Carpentry and Joinery	76	
10	Ceilings, partitions and access flooring	81	
11	Ironmongery	89	
12	Structural steelwork	92	
13	Metalwork	104	
14	Plastering	107	
15	Tiling	110	
16	Plumbing and drainage	131	
17	Glazing	132	
18	Paintwork	135	
	Carried to Final Summary		R
	Section No 2		

Item No	Quantity	Rate	Amount
<p>SECTION 3</p>			
<p>BILL NO 1</p>			
<p>EXTERNAL WORK</p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p>LANDSCAPING</p>			
<p>SUPPLEMENTARY PREAMBLES</p>			
<p>The contractor shall visit the site and satisfy himself as to the nature and the extent of the work to be done.</p>			
<p>Filling material and sub base to be in accordance with SABS 1200</p>			
<p><u>Carting away of excavated material</u></p>			
<p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p>			
<p><u>Nature of the ground</u></p>			
<p>No soil tests have been done on this project at tender stage</p>			
<p>An allowance for hard and soft rock has been made and should be seen as provisional and re-measurable. The nature of the ground is typical to the Pretoria Central CBD area, on which the necessary assumptions were made</p>			
<p>"Hard rock" shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives</p>			
<p>"Earth" shall mean all ground other than that classified as "hard rock" and shall include hard shale, ferricite, compact oukclip and material of similar hardness, made-up ground and any loose stones or pieces of concrete not exceeding 0,05m³ in volume</p>			
<p>Carried Forward</p>		R	
<p>Section No 3 Bill No 1 External work</p>			

Brought Forward

R

General

All water and electrical connections (irrigation water connection, irrigation controller, drinking fountains water supply and drainage etc.) to be provided for as per the engineers specification

Brand names

The brand names specified in the document are meant to provide an indication of standards, technical specifications and quality required for a particular product

Any product that meets the same standards, technical specifications, quality, National Building Regulation requirements and is SABS approved can be used but only after prior approval by the Principal Agent or any consultants given authority by the Principal Agent to make such approvals

Labour intensive work (LI)

All trades descriptions with (LI), are regarded as Labour Intensive and therefore local labour needs to be employed under these trades. Please refer to tender document for further details and information

The Contractor is at liberty to identify more or alternative activities

Specifications document

The item descriptions in the BOQ are a summary of the item descriptions and specifications in the Specification Document: (TBC)

The contractor is to read the BOQ in conjunction with the Specification Document in order to get the full item description, technical specifications and breakdown of the work involved

No claims shall be entertained where contractor does not reference the specification document and, consequently, underprices an item

Carried Forward

R

Section No 3
 Bill No 1
 External work

Brought Forward

R

Removal and carting away

In all items that state that items/material/rubble should be 'removed', the word 'remove' (unless otherwise stated) shall mean that the item are to be taken out of the current location, put somewhere else on site and then carted away at the convenience of the contractor

Temporary protection

The contractor is to adequately price for any and all temporary protection that may be required to complete all the works

All items on the project that are noted as to be preserved are to be protected from damage during the construction period and while the noted maintenance works are being carried out on them

Where roofing is being changed, the structure should be protected from all weather elements that may cause damage

Special scaffolding

The contractor is to adequately make allowance for any and all special scaffolding that may be required to complete all the works

All scaffolding is to comply with the current OHS Act

Trees

Feature bonasi tree to be hand selected and approved by landscape architect

Carried Forward

R

Section No 3
 Bill No 1
 External work

Brought Forward		R
<u>Plants</u>		
All plants to comply with SANA standards		
All plants must be transported to the site in trucks with closed canopies. Plants in transit may not be exposed to wind or any other harmful elements		
All plants are to be viewed and approved by the Landscape Architect before planting		
The Landscape Architect retains the right to adjust specific species if plants are not available or of poor quality		
Plants are to be kept on site and maintained (before-installation) to retain initial quality and growth		
<u>Planting</u>		
Supply all equipment and labour for planting of trees, shrubs and ground covers		
Backfill with soil, compost and fertilizer to specification and tramp down firmly		
Remove all surplus soil		
Secure tree firmly		
Water well after planting		
Keep all plants moist		
SITE CLEARANCE		
Excavate in earth and dispose on site		
1	Not exceeding 500mm deep to remove humps, form shallow ditches, unwanted compacted material / vegetation or material not suitable for planting, etc	m3 61
Removal of trees		
2	Removal of existing trees, excavate root ball and roots up to 150mm diameter and move to spoil material	No 1
Ground preparation		
3	Cultivation and preparation of areas to be planted	m2 645
Carried Forward		R
Section No 3		
Bill No 1		
External work		

Brought Forward			R	
Selected imported topsoil (compost river sand topsoil mix (1:1:1) , including spreading and levelling				
4	In plant beds, holes for trees, etc	m3	38	
5	In plant boxes, planters, pots, etc	m3	123	
Compost, lime and fertilizer				
6	Commercial fertilizer for planted areas	kg	8	
7	Super phosphate granular commercial fertilizer for planted areas, shrubs, ground covers, etc	kg	8	
8	Commercial fertilizer for trees	kg	1	
Mulch				
9	100mm Thick mulch layer of woodchips or similar in plant beds in between plants over planting area and tree holes	m2	8	
Drainage layering				
10	U14 Bidum layer to protect the soil including overlapping	m2	90	
11	300mm Deep 13mm crusher stone layer	m3	25	
12	Breaking up 300mm insitu soil to base of planters	m2	82	
Shrubs, bulbs and plants				
<u>The following in planter mix 1 of 41m2</u>				
13	Cotyledon orbiculata "Firesticks"(3/m2)	m2	41	
14	Bulbine abyssinica "Bushy Bulbine" (7/m2)	m2	41	included above
15	Delosperma ashtonii "Ice plant" (5/m2)	m2	41	included above
<u>The following in planter mix 2 of 41m2</u>				
16	Juncus oxycarpa "Dry land sedge"(6/m2)	m2	41	
17	Delosperma ashtonii "Ice plant" (5/m2)	m2	41	included above
18	Aloe cooperi "Coopers Aloe" (Grass Aloe) (3/m2)	m2	41	Included above
Carried Forward			R	
Section No 3 Bill No 1 External work				

Brought Forward			R	
<u>Other planting</u>				
19	Aloe capitata var. quartzicola/ Aloe vanbalenii	No	5	
20	Kniphofia caulescens (Evergreen Red Hot Poker) (5/m2)	No	10	
Trees				
21	Pittosporum viridiforum "Cheesewood" (100ltr container) 1800 - 2500 mm high, 700 - 1200mm crown canopy, 25 - 40mm stem diameter	No	12	
22	Feature bonsai tree to Zen garden planter (50l container) 1200 - 1800mm high, 700 - 1100mm crown canopy, 20 - 35mm stem diameter	No	1	
Maintenance				
23	Allow for maintaining landscaping for a period of 36 months after practical completion, including watering, weeding, cutting, replacing dead plants, etc		Item	
IRRIGATION SYSTEM				
Irrigation system				
24	Semi automatic irrigation system to planter areas as indicated on the landscape architects drawings		Item	18,581.20
Sleeves				
25	110mm Sleeves made of ripped and reinforced PVC connected the main line, and interconnected to all planted areas	m	142	
Testing				
26	Testing irrigation system		Item	
HARD LANDSCAPING				
PAVING AND KERBS				
Carried Forward			R	
Section No 3 Bill No 1 External work				

Brought Forward			R
	Install existing exposed aggregate 200 x 100 x 60mm thick precast concrete interlocking paving blocks in herringbone pattern to be laid on 20mm thick riversand layer with joints filled in with plastersand, compacted with a vibration compactor - Paving type A		
27	Paving to sidewalks etc	m2	190
	Supply and install labour intensive mosaic paving blocks in herringbone pattern to be laid on 20mm thick riversand layer with joints filled in with plastersand, compacted with a vibration compactor - Paving type B		
28	Paving to sidewalks, etc	m2	609
	Install existing 350 x 350 x 60mm thick precast concrete concrete slab pavers to be laid on 20mm thick riversand layer with joints filled in with plastersand, compacted with a vibration compactor - Paving type C		
29	Paving to sidewalks etc	m2	120
	Supply and install 110 x 110 x 50mm thick concrete cobble stones or similar approved pavers to be laid on 20mm thick riversand layer with joints filled in with plastersand, compacted with a vibration compactor - Paving type D		
30	Paving to sidewalks etc	m2	25
	Supply and install 300 x 150 x 55mm thick "Bosun cobble" or similar approved paving blocks to be laid on 20mm thick riversand layer with joints filled in with plastersand, compacted with a vibration compactor		
31	Extra over for straight edge blocks to paving type B	m	163
	Supply and install 110 x 110 x 50mm thick concrete cobbles or similar approved paving blocks to be laid on 20mm thick riversand layer with joints filled in with plastersand, compacted with a vibration compactor		
32	Kerbs to street planting beds	m	71
SEMI-PUBLIC COURTYARD HARD LANDSCAPING AND FEATURES			
Carried Forward			R
Section No 3			
Bill No 1			
External work			

Brought Forward			R
Sculpture			
33	7500 x 1800mm High mosaic wall made of local sourced materials (tiles and stone fragments fixed to brickwall)	No	1
Retaining walls			
34	250mm Concrete retaining walls 300mm average height including foundation, as per landscape architect	m	10
Precast concrete benches			
35	1500 x 350 x 450mm Pre-cast concrete benches	No	12
Planters			
36	500 x 70mm Thick internal planter insitu-cast concrete seating with black steel armrests to match bicycle parking frames at one meter intervals	m	5
CONSTRUCTED ELEMENTS AND OTHER			
Planters			
37	One brick wall internal planter 450mm high with facebrick finish on one side	m	52
38	1500 x 900 x 600 x 100mm Thick precast concrete planters	No	7
Benches and seating			
39	500 x 70mm Thick internal planter insitu-cast concrete seating with black steel armrests to match bicycle parking frames at one meter intervals	m	9
40	500mm High concrete built seats with a 70mm thick sloped concrete finishing (slope to not exceed 15 degrees) with black steel armrests at one meter intervals	m	40
41	1800 x 350 x 450mm Pre-cast concrete benches with black steel armrests to match bicycle parking frames at one meter intervals	No	7
Carried Forward			R
Section No 3 Bill No 1 External work			

Brought Forward			R
Bicycle parking frames			
42	Stainless steel multi-functional bicycle frames as per landscape architect's drawings		Item
PUBLIC SEATING AND BOUNDARY FENCE			
<u>The following in public seating and boundary fence</u>			
EXCAVATION, FILLINGS, ETC			
Excavation in earth not exceeding 2m deep			
43	Trenches	m3	215
Extra over trench and hole excavations in earth for excavation in			
44	Soft rock	m3	21
45	Hard rock	m3	11
Extra over all excavations for carting away			
46	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	70
Risk of collapse of excavations			
47	Sides of trench and hole excavations not exceeding 1.5m deep	m2	573
Keeping excavations free of water			
48	Keeping excavations free of all water other than subterranean water		Item
Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density			
49	Backfilling to trenches, holes, etc	m3	108
SOIL POISONING, ETC			
50	To bottoms and sides of trenches, etc	m2	358
Carried Forward			R
Section No 3 Bill No 1 External work			

Brought Forward			R
UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES			
15MPa/19mm concrete			
51	Surface blinding under footings and bases	m3	10
REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES			
30MPa/19mm			
52	Strip footings	m3	60
REINFORCED CONCRETE CAST IN/ON FORMWORK			
30MPa/19mm concrete			
53	Columns	m3	6
ROUGH FORMWORK (DEGREE OF ACCURACY II)			
54	Rectangular columns	m2	54
REINFORCEMENT			
Mild steel reinforcement			
55	10mm Diameter bars (provisional)	t	0.65
56	8mm Diameter bars (provisional)	t	1.30
High tensile steel reinforcement			
57	32mm Diameter bars (provisional)	t	0.59
58	25mm Diameter bars (provisional)	t	2.98
PRECAST CONCRETE COPINGS			
Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing			
59	460 x 70mm Thick overall copings in 1,915mm lengths	m	55
Carried Forward			R
Section No 3 Bill No 1 External work			

Brought Forward			R
FOUNDATIONS			
Brickwork of NFX bricks (14MPa nominal compressive strength) in class II mortar			
60	One brick walls	m2	133
SUPERSTRUCTURE			
Brickwork of NFP bricks in class II mortar			
61	One brick walls	m2	115
Joint forming material in movement joints			
62	10mm Softboard joint between concrete and brickwork	m2	27
2,5mm Brickwork reinforcement			
63	150mm Wide reinforcement built in horizontally	m	390
FACE BRICKWORK			
"Corobrick" face bricks pointed with recessed horizontal and vertical joints			
64	Extra over brickwork for face brickwork	m2	231
DAMPPROOFING OF WALLS AND FLOORS			
One layer of 375 micron polyolefin DPC embossed damp proof course			
65	In walls	m2	13
"Cemflex" acrylic based emulsion waterproofing system including "Cemflex" fabric membrane mixed and applied in accordance with the manufacturer's recommendations			
66	On sides of walls	m2	252
STEEL COLUMNS AND BEAMS			
Welded columns in single lengths with flat section base, top, bearer and connection plates bolted			
67	70 x 44mm x 2kg/m I-section column	t	0.33
Carried Forward			R
Section No 3			
Bill No 1			
External work			

Brought Forward

R

BOUNDARY FENCING

Clearing

68 Clear, prepare and level ground along line of fence m 210

"Clearvue" fencing panel, formed of 3mm diameter horizontal and vertical high tensile wires galvanised and PVC coated, colour RAL 7021 Anthracite with aperture size 76.2mm x 12.7mm with I profile steel 70 x 44 x 2mm PVC coated post 1.8 m high at 3,070mm centres with posts bedded in 15MPa concrete bases size 440 x 440 x 450mm including 40 x 20 x 40 x 2.5mm saw tooth serrated edge rail on top by approved specialist (Refer to drawings A507 & A508)

69 Fence 1,800mm high m 210

Carried to Final Summary

R

Section No 3
 Bill No 1
 External work

Item No	Quantity	Rate	Amount
<p>SECTION 4</p>			
<p>BILL NO 1</p>			
<p>PROVISIONAL AMOUNTS FOR SELECTED SUBCONTRACT WORK</p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p>SUPPLEMENTARY PREAMBLES</p>			
<p><u>Provisional amounts</u></p>			
<p>All provisional amounts are net and include for delivery to site of all articles concerned</p>			
<p><u>Profit</u></p>			
<p>Where stated, the contractor may allow for profit if required</p>			
<p><u>General attendance on selected subcontractors</u></p>			
<p>The item "Attendance" which follows each provisional sum for selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the selected subcontractors, the following:</p>			
<ol style="list-style-type: none"> 1. The services as set out in clause B9 of the Preliminaries 2. Hoisting of the selected subcontractor's material in batches that can be handled by the contractor's hoist or crane during normal working hours 3. Making good in all trades and cleaning down and removal of rubbish on completion 			
<p><u>Preliminaries</u></p>			
<p>The contractor is referred to the Preliminaries for further amplification of "Prime Cost Amounts and Provisional Amounts"</p>			
<p>Carried Forward</p>		R	
<p>Section No 4 Bill No 1 Provisional amounts</p>			

Brought Forward			R
Joinery fittings			
1	Provide the sum of R123,600.00 for joinery fittings	Item	123,600.00
2	Add for profit	%	
3	Add for attendance	%	
Walk off mats			
4	Provide the sum of R20,600.00 for walk off mats	Item	20,600.00
5	Add for profit	%	
6	Add for attendance	%	
Roads and paving			
7	Provide the sum of R448,050.00 for roads and paving	Item	448,050.00
8	Add for profit	%	
9	Add for attendance	%	
Loffestein retaining walls			
10	Provide the sum of R20,600.00 for loffelstein retaining walls	Item	20,600.00
11	Add for profit	%	
12	Add for attendance	%	
Signage			
13	Provide the sum of R36,050.00 for signage	Item	36,050.00
14	Add for profit	%	
15	Add for attendance	%	
Sundry steel			
16	Provide the sum of R118,450.00 for sundry steel	Item	118,450.00
17	Add for profit	%	
18	Add for attendance	%	
Carried Forward to Summary of Section No. 4			R
Section No 4			
Bill No 1			
Provisional amounts			

Item No	SECTION 4	Quantity	Rate	Amount
	BILL NO 2			
	BUDGETARY ALLOWANCES FOR WORK TO BE PERFORMED BY THE MAIN CONTRACTOR AND/OR SELECTED SUBCONTRACTORS			
	Minor builders' work			
1	Provide the sum of R103,000.00 for concrete steps, ramps, etc	Item		103,000.00
2	Provide the sum of R11,845.00 for building work to electrical, mechanical	Item		11,845.00
3	Provide the sum of R22,145.00 for insulation	Item		22,145.00
4	Provide the sum of R77,250.00 for connection fees	Item		77,250.00
	DIRECT CONTRACTORS			
	Direct contractors			
5	Tenderers must take note that the following work will be performed by direct contractors as defined in clause 22 of the principal building agreement and will not form part of this contract. Tenderers however must make provision for these installations in their program and must provide all the necessary assistance including access, etc to the direct contracts:			
	a) Fixed furniture, fittings and equipment	Item		
	Carried Forward to Summary of Section No. 4		R	
	Section No 4 Bill No 2 Budgetary allowances			

SECTION SUMMARY - Section 4 - Prime cost and provisional amounts

Bill No		Page No	Amount
1	Provisional amounts	150	
2	Budgetary allowances	151	
	Carried to Final Summary		R
	Section No 4		

Item No	Quantity	Rate	Amount
SECTION 4			
BILL NO 1			
ELECTRICAL WORK			
For preambles refer to "Model Preambles for Trades"			
SUPPLEMENTARY PREAMBLES			
<u>Specifications, drawings, etc</u>			
Tenderers are referred to the specification and drawings, annexed to these bills of quantities (accompanying these bills of quantities) for the electrical work, for the full descriptions of the following items which are to be read and priced in conjunction with the said specification and drawings			
<u>Distribution boards, etc</u>			
Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings			
<u>Switches, socket outlets, etc</u>			
Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates			
<u>Light fittings</u>			
Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described			
SITE RETICULATION			
MUNICIPAL CONNECTION			
ELECTRICITY CONNECTION			
1	Bulk electrical connection fees (200kVA, 400V)	Item	
2	Profit and attendance on above		%
Carried Forward			R
Section No 5 Bill No 1 Electrical work			

Brought Forward			R
3	Temporary electrical connection		Item
DISTRIBUTION BOARDS			
Supply and Installation of distribution boards as per attached drawing no. EE10699/04 and specifications with labels, legends, danger warning signs, and green locks with master keys			
4	Main Distribution Board MDB (Flush Mounted with lockable doors)	No	1
5	Sub Distribution Board DB-1 (Flush Mounted with lockable doors)	No	1
6	Sub Distribution Board DB-2 (Flush Mounted with lockable doors)	No	1
7	Sub Distribution Board DB-3 (Flush Mounted with lockable doors)	No	1
8	450 x 450mm Telkom Distribution Board (Flush mounted with lockable doors)	No	2
LV DISTRIBUTION CABLES			
Supply and installation of 600/1000V PVC/SWA/PVC/PVC copper cables installed in ground, ducts, cable trays, and ceiling voids			
9	16mm ² x 4 core copper cable (MDB to Sub DBs)	m	106
10	10mm ² bare copper earth wire (BCEW)	m	106
11	50mm ² x 4 core copper cable (MDB to Generator)	m	121
12	35mm ² bare copper earth wire (BCEW)	m	121
13	4mm ² x 4 core copper cable (MDB to UPS & Sub DBs)	m	132
14	2,5mm ² bare copper earth wire (BCEW)	m	132
15	70mm ² x 4 core copper cable (Meter Box to MDB)	m	49
16	50mm ² bare copper earth wire (BCEW)	m	49
CABLE TERMINATIONS			
Carried Forward			R
Section No 5 Bill No 1 Electrical work			

Brought Forward				R
Supply and installation of 600/1000V PVC/SWA/PVC/PVC copper cable terminations complete with lugs and earthings as required and specified				
17	70mm ² x 4 core copper cable (Meter Box to MDB)	No	2	
18	50mm ² bare copper earth wire (BCEW)	No	2	
19	16mm ² x 4 core copper cable (MDB to Sub Dbs & Solar)	No	6	
20	10mm ² bare copper earth wire (BCEW)	No	6	
21	10mm ² x 4 core copper cable (MDB to DB-UPS)	No	4	
22	6mm ² bare copper earth wire (BCEW)	No	4	
23	50mm ² x 4 core copper cable (MDB to Generator & DB 1)	No	6	
24	35mm ² bare copper earth wire (BCEW)	No	6	
MANHOLES AND CABLE SLEEVES				
Supply and install cable sleeves and manholes as indicated on drawings				
25	110mm Diameter Kable Flex uPVC sleeves	m	186	
26	50mm Diameter Kable Flex uPVC sleeves	m	22	
27	110mm Diameter Kable Flex uPVC slow bend	No	6	
28	50mm Diameter Kable Flex uPVC slow bend	No	3	
29	800 x 800 x 600 mm manholes with cast iron cover	No	5	
30	1000 x 1000 x 600 mm manholes with cast iron cover	No	1	
TRENCHING AND BACK FILLING				
All prices below includes the excavation of trenches and holes, separating of stones and soil, rocks etc, levelling of trench beds, refill compacting and reparation of all surfaces to the original finish (600mm deep x 300mm wide)				
31	Excavate in earth not exceeding 2m deep	m3	63	
Carried Forward				R
Section No 5 Bill No 1 Electrical work				

Brought Forward			R
32	Extra over extra over excavation for soft rock	m3	6
33	Extra over extra over excavation for hard rock	m3	2
CABLE MARKERS AND DANGER WARNING TAPE			
Supply and installation of cable markers and danger warning tape as specified			
34	Low voltage concrete cable route markers	No	4
35	Low voltage danger warning tape	m	187
EARTHING AND LIGHTNING PROTECTION			
36	50mm ² round aluminium roof & down conductor	m	350
37	1,500mm long, 16mm ² , A grade copper earth spikes	No	24
38	Accessories such as ferrules, clamps, brackets, test boxes etc to make installation complete		SUM
39	50mm ² BCEW ground conductor	m	200
40	Testing and certification of the earthing and lighting protection system including all test equipment required as well as the issuing of an earthing certification by a qualified person		Item
PERIMETER LIGHTING			
Supply, delivery, installation and commissioning of the following external light fittings, complete with poles, luminaires, lamp and internal switchgear and control gear as per drawings and specifications			
41	55W LED decorative post top light fitting complete with a 3500mm long, LM6, die cast and extruded, buried, black aluminium pole complete with lamps, control gear, mounting accessories, drivers etc - Beka Zela or similar approved. TYPE G	No	9
42	2,5mm ² , 2 core, PVC/PVC/SWA/PVC perimeter lighting cable	m	159
43	2,5mm ² bare copper earth wire for above cable	m	159
Carried Forward			R
Section No 5 Bill No 1 Electrical work			

Brought Forward		R
DIESEL GENERATOR		
44	Supply, delivery, installation, testing and commissioning of a 200kVA standby diesel generator set, complete with an on board diesel tank able to run generator set for 8 hours at full load, and generator control panel. The generator engine must be from a reputable supplier. The generator set shall be fitted with an electric pump to transfer fuel from the delivery tank	Sets 1.0
45	Supply, delivery, installation, testing and commissioning of a 20kVA automatic change over switch with mechanical interlocks	No 1
46	Supply operating & maintenance manuals, test & commissioning results and as built drawings for the generator set	No 3
47	Supply and Install full tank of diesel after commissioning	SUM
48	Supply maintenance and warranty for 12 months	SUM
49	Supply and install a sound attenuated, weather proof, outdoor generator canopy to house the above mentioned generator	No 1
50	Supply and install a concrete plinth for the generator as per manufactures recommendations on positions indicated on the drawings	No 1
UPS		
51	Supply, install, test and commission a complete online 5kVA UPS, tower, 3 phase in 3 phase out, as per attached specifications complete with a battery bank for 15 minutes run time and a static bypass switch, as well as an external maintenance manual by-pass switch	No 1
52	Supply operating & maintenance manuals, test & commissioning results	No 3
53	Supply maintenance and warranty for 12 months	SUM
MV CABLING & 200kVA MINISUB		
54	Supply, delivery, installation, testing and commissioning of a 200kVA minisub-station complete with feeder breakers as per attached drawings	SUM
Carried Forward		R
Section No 5 Bill No 1 Electrical work		

Brought Forward			R
55	Supply and install a concrete plinth for the minisub as per manufactures recomendations on positions indicated on the drawings	No	1
56	Supply operating & maintenance manuals, test & commissioning results and as built drawings for the mini-sub	No	3
57	Supply maintenance and warranty for 12 months		Item
58	Supply and install 120mm ² x 3 core PILC 11kV armoured, copper cables, Table 17	m	90
59	Supply and install 70mm ² bare copper earth wire (BCEW)	m	90
60	Supply and install 120mm ² x 3 core PILC 11kV armoured, copper cables, Table 17, jointing kits	No	2
61	Supply and install 50mm ² x 3 core PILC 11kV armoured, copper cables, Table 17, indoor termination kits	No	4
62	Supply and install 70mm ² bare copper earth wire (BCEW) terminations	No	4
REMOVAL OF TELKOM POLES			
63	Remove existing, disused Telkom poles and carting away from site	No	4
TESTING AND COMMISSIONING			
64	Testing and commissioning of the entire low voltage network and area lighting including the provision of all test equipment required and issuing of a certificate of compliance for the installation		SUM
65	Provide as built drawings for the whole electrical installation to the engineer	Sets	3.0
LIGHTING AND POWER INSTALLATION			
CONDUITS AND ACCESSORIES			
Carried Forward			R
Section No 5 Bill No 1 Electrical work			

Brought Forward			R
Supply and install new galvanised steel conduit chased in walls, installed into ceiling voids, cast into concrete as specified complete with accessories			
66	20mm Diameter galvanised steel conduits complete with accessories	m	2,951
67	25mm Diameter galvanised steel conduits c/w accessories	m	720
68	32mm Diameter galvanised steel conduits c/w accessories	m	100
69	20mm diameter flexible steel conduits with accessories for CCTV systems	m	272
CONDUCTORS			
Supply and installation of the following PVC insulated conductors with colours as specified, into trunking and conduit including terminations on both ends, to specification			
70	2,5mm ²	m	2,550
71	4mm ²	m	5,700
72	6mm ²	m	1,400
73	10mm ²	m	300
74	2,5mm ² bare copper earth wire	m	4,125
75	4mm ² bare copper earth wire	m	850
76	6mm ² bare copper earth wire	m	150
LIGHT SWITCHES			
Supply and install the following flush mounted light switches complete with wall boxes as specified and indicated on drawings			
77	1 Lever, 1 Way Light Switch	No	2
78	1 Lever, 2 Way Light Switch	No	6
79	Photocell, 10A, 240V	No	7
Carried Forward			R
Section No 5 Bill No 1 Electrical work			

Brought Forward			R
80	Dual technology occupancy sensor, 10A, 240V, 50Hz	No	36
CABLE TRAY AND WIRE MESH			
Supply and install the following wire ways skirting, powder coated, complete with end caps and associated accessories and covers (colour: white) as specified			
81	230mm wide perforated galvanised steel cable tray complete with mounting and suspending accessories	m	50
82	230mm galvanised steel cable wire mesh complete with mounting and suspending accessories for Data and Telephone	m	219
83	P9000 for CCTV and access control first fix	m	278
SOCKET OUTLETS AND ISOLATORS			
Supply and install the following socket outlets and isolators as specified and as indicated on drawings			
84	Single, normal, white switched socket outlet on power skirting	No	86
85	Double, normal, switched socket outlet surface mounted	No	19
86	Single, dedicated, red switched socket outlet on power skirting	No	46
87	Single, UPS, violet, switched socket outlet surface mounted	No	8
88	20A double pole isolator in weather proof box for AC units	No	23
89	40A double pole isolator for geysers	No	2
90	60A Tripple pole isolator weather proof box for AC units	No	1
91	5A Unswitched socket outlets for light fittings	No	95
92	20A double pole isolator for ventilation fans	No	14
93	20A double pole isolator for AC indoor units	No	12
94	60A double pole cooker unit/isolator with neon indicator	No	1
Carried Forward			R
Section No 5			
Bill No 1			
Electrical work			

Brought Forward			R
95	3 phase + neutral 4 pin socket outlet	No	1
DATA AND TELEPHONE			
Supply and installation of data and telephone points on power skirting or wall mounted as specified and as indicated on drawings			
96	RJ45 Data points	No	41
97	RJ11 Telephone points	No	33
LIGHTING INSTALLATION			
Supply and installation of the following light fittings, complete with lamps and electronic control gear as specified and as indicated on attached drawings			
98	70W LED, surface mounted luminaire with polycarbonate body and opal acrylic diffuser complete with lamps and electronic control gear, drivers etc - TYPE A	No	80
99	70W LED, surface mounted luminaire with polycarbonate body and opal acrylic diffuser complete with lamps and electronic control gear, drivers etc with 1 hour emergency battery back-up system - TYPE AE	No	15
100	18W LED decorative down light fitting complete with lamps, drivers, electronic control gear, etc - TYPE B	No	41
101	18W LED decorative down light fitting complete with lamps, drivers, electronic control gear, etc with 1 hour emergency battery back-up system - TYPE BE	No	10
102	10W LED decorative down light fitting complete with lamps, drivers, electronic control gear, etc - TYPE C	No	11
103	22W LED decorative Bulkhead light fitting complete with lamps, drivers, electronic control gear, etc - TYPE D	No	3
104	40W LED decorative OUTDOOR flood light fitting complete with lamps, drivers, electronic control gear, etc - TYPE E Screen reader support enabled	No	43
105	40W, LED VAPOUR PROOF light fitting surface mounted-TYPE F	No	21
Carried Forward			R
Section No 5 Bill No 1 Electrical work			

		Brought Forward		R
POWER SKIRTING				
Supply and install the following galvanised steel power skirting, powder coated, complete with end caps and associated accessories and covers (colour: white) as specified				
106	2 Compartment, 3 tier power skirting	m	152	
HAND DRIERS				
Supply and install the following stainless steel 2.5 kW hand driers complete with all mounting accessories				
107	2,5 Kw, 230V, Automatic stainless steel hand driers	No	6	
PUBLIC ADDRESS AND VOICE EVACUATION INSTALLATION				
FRONT END EQUIPMENT				
Supply, deliver, installation, testing, commissioning and handing over in working order and maintenance during guarantee period				
108	1 Channel power amplifier @ 240W RMS per channel		Item	
109	Voice Alarm System Amplifier 240W - 1 Zone		Item	
110	Power amplifier input module		Item	
111	VM Extension Amplifier		Item	
112	Firemans Microphone Extension		Item	
113	Emergency Power supply unit		Item	
114	12 Volt 100 A/H Battery		Item	
115	19" rack 25U, 800mm, complete		Item	
FIELD DEVICES				
		Carried Forward		R
Section No 5 Bill No 1 Electrical work				

Brought Forward			R
Supply, deliver, installation, testing, commissioning and handing over in working order and maintenance during guarantee period			
116	10 W Speaker (BS Version) Vandall Proof	Item	
117	PH120 1mm 1 pair Fire resistant cable	m	500
118	Diameter 25mm steel conduit	m	500
119	Diameter 100mm sleeve for electronics services	m	100
120	Consumables	Item	
CONTROL			
121	Allow for linking and programming of the system to intergrate with HVAC system and fire detection system	Item	
Carried to Final Summary			R
Section No 5			
Bill No 1			
Electrical work			

Item No	Quantity	Rate	Amount
<p>SECTION 6</p>			
<p>BILL NO 1</p>			
<p>MECHANICAL WORK</p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p>SUPPLEMENTARY PREAMBLES</p>			
<p><u>Specifications, drawings, etc</u></p>			
<p>Tenderers are referred to the specification and drawings numbered ? to ? prepared by ?, annexed to these bills of quantities (accompanying these bills of quantities?) for the mechanical work, for the full descriptions of the following items which are to be read and priced in conjunction with the said specification and drawings</p>			
<p><u>Ductwork</u></p>			
<p>Descriptions of ducts shall be deemed to include stiffeners, jointing materials, sealants, couplers in the running length and access/inspection panels in accordance with the specification</p>			
<p><u>Dampers</u></p>			
<p>Descriptions of smoke and fire dampers shall be deemed to include fusible links, sleeves, frames, supports and access openings in ducts</p>			
<p><u>Air diffusion</u></p>			
<p>Descriptions of air terminals, grilles, louvres and the like shall be deemed to include necks, frames, supports and flexible connections</p>			
<p><u>Fans</u></p>			
<p>Descriptions of fan assemblies shall be deemed to include supports from the structure, flexible or other connections to ductwork, vibration isolation mountings and airtight inspection doors</p>			
<p>Carried Forward</p>		R	
<p>Section No 6 Bill No 1 Mechanical work</p>			

Brought Forward

R

Sound attenuators

Descriptions of sound attenuators shall be deemed to include flanged or flexible connections to ducts and supports from the structure

Fan coil units, fan air terminals and fan heaters

Descriptions of fan coil units, fan air terminals and fan heaters shall be deemed to include connection points for water, air and electrical supply, for air grilles, dust trays, condensate trays and vibration isolation mountings. Flexible ducts, flexible hose and connecting cables for connecting these units to each other or to water pipe, and electrical supply are separately measured

Major equipment

Descriptions of major equipment such as chillers, air handling units and the like shall be deemed to include connections to water, air and electrical supply and/or discharge points, supports, bearers, vibration insulation mountings, filters, insulation, inspection ladders and gangways, access doors and panels and painting etc as specified

Piping

Pipe diameters are nominal internal unless otherwise stated

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch diameter is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all diameters are given and no claim for extra bushes, reducers, etc will be entertained

Fixing of pipes

Unless 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

Carried Forward

R

Section No 6
 Bill No 1
 Mechanical work

Brought Forward			R
<u>Pump sets</u>			
Descriptions of pumps shall be deemed to include connections to water and electrical supply and/or discharge points, vibration insulation mountings, insulation, drip trays with outlets, pressure gauges, etc			
<u>Valves</u>			
Descriptions of valves shall be deemed to include flanged or screwed connections to pipes, reducers, supports, etc			
<u>Insulation</u>			
Descriptions of insulation shall be deemed to include priming the pipes with zinc chromate primer before the insulation is applied, painting the insulation when completed and applying vapour barrier where specified			
AIR CONDITIONING INSTALLATION			
VRV AIR CONDITIONING SYSTEM			
Design, manufacture, works testing, supply and deliver to site, moving into position, erection, connecting up, site testing, witness testing, proving to insurance inspectors, demonstrating to the Employer, commissioning and maintenance of the complete mechanical systems and equipment as shown on the drawings and datasheets			
CASSETTE SPIT INVERTER UNITS			
Supply and install VRV 4 Way cassette units complete with fittings and fixtures as specified and shown on the drawing			
1	[CCU1]: Nominal Cooling Capacity : 3,6[kW]	No	12
2	[CCU2]: Nominal Cooling Capacity : 5,6[kW]	No	6
SPIT WALL MOUNTED UNITS			
Supply and install VRV Wall Mounted Units complete with fittings and fixtures as specified and shown on the drawing			
3	[HW1]: Nominal Cooling Capacity : 2.8[kW]	No	3
Carried Forward			R
Section No 6			
Bill No 1			
Mechanical work			

Brought Forward			R
4	[HW2]: Nominal Cooling Capacity : 2,8[kW]	No	3
CEILING CONCEALED UNITS (FAN COIL UNITS)			
Supply and install VRV Ceiling Concealed Units complete with fittings and fixtures as specified and shown on the drawing			
5	[FCU1]: Nominal Cooling Capacity : 16,4[kW]	No	2
EXTRACTION FANS			
Supply and install Wall Mounted Extraction Fans complete with fittings and fixtures			
6	[WL01]: Wall Mounted Extraction Fan, 400mm Diametre and 0,09m ³ /s air flow	No	8
7	[WL02]: Expelair WX Wall mounted (434x434) and 0,171m ³ /s	No	1
8	[EF01]: Duct-in-line Etraction Fan (400diametre) and 0,11m ³ /s	No	1
FRESH AIR FANS			
Supply and install Inline Fresh air Fans complete with fittings and fixtures			
9	Duct-in-line Fresh air Fan, 400mm Diametre and 1m ³ /s air flow	No	5
DUCTWORK FOR HIDEAWAY UNIT			
Supply and install galvanized sheet metal ducting, low pressure cw 25mm foil backed insulation, stop ends, transformations, fixtures and fittings suspended not exceeding 1m below concrete soffits, including supports to SMACNA. Mezz Flanged			
10	500 x 600 Externally insulated duct	m	10
11	350 x 600 Externally insulated duct	m	10
12	500 x 600 to 350 x 600 transformation (500mm Length)	No	2
13	350 x 600 stop ends	No	2
Carried Forward			R
Section No 6			
Bill No 1			
Mechanical work			

Brought Forward			R
14	350mm Diameter externally insulated duct	m	10
15	300mm Diameter externally insulated duct	m	30
16	200mm Diameter externally insulated duct	m	35
17	350mm Diameter to 300mm diameter transformation (500mm Length)	No	2
18	300mm Diameter to 200mm diameter transformation (500mm Length)	No	2
19	200mm Diameter spirals (externally insulated)	m	21
20	200mm Diameter insulated flexible ducts	m	15
21	200mm diameter slip joints	No	22
22	90 Degree bends, 300mm diameter to 300mm	No	1
23	90 Degree bends, 200mm diameter to 200mm	No	3
Supply and install constant volume complete with OBD and all necessary fittings and fixtures as specified and shown on the drawings. Sizes as follows:			
24	[CV01] Size: 600 x 600 c/w OBD 200mm dia spigots	No	22
25	[RAG01] Size: 595 x 1195mm egg crate return air grille c/w filters	No	1
26	200mm Diameter jubilee clamps	No	45
ACCESSORIES			
Supply and install R410a refrigerant piping c/w refnet joints and and all necessary fixtures and fittings as specified and shown on the drawings to make a complete functional system			
27	Copper Piping as per selected Manufacturer' specifications including insulation and cable ties to make a complete installation		SUM
28	Condensate Piping as per Selected Manufacturer's Specifications including tees and elbows to complete installation		SUM
Carried Forward			R
Section No 6 Bill No 1 Mechanical work			

Brought Forward		R
29	Cable tray for Piping and Cabling to suite installation. Minimum thickness 1.2mm with 19mm return. Hot-dip galvanised to SABS 763. Support to maximum 1,5m spacing	SUM
30	Galvanised steel trunking for outside pipes to suite installations	SUM
31	Wired controllers to suite the installation	No 25
32	PVC Cable truckings for wired remotes	SUM
ELECTRICAL WORK		
33	Supply and install electrical work including power and control cabling and connections as specified for the VRV air conditioning units c/w communication	Item
TEST & COMMISSION		
34	Test and commission the entire VRV Air conditioning system	Item
35	Ditto but in the presence of and to the entire satisfaction of the Consulting Engineer	Item
36	Allow for drilling and make good of walls	SUM
37	Make good the ceiling after installation	SUM
38	Make good other disturbed services after installation	SUM
39	Supply a facilities management system to monitor and control the maintenance and servicing of the installation during the guarantee period and beyond	Item
40	Allow for hardware for the air conditioning system to communicate with the FMS and/or the maintenance team (e.g sensors, controllers, transmitters etc)	SUM
41	Provide training for the FMS	SUM
42	Allow for interface with fire services	SUM
43	Allow for interface with the Building Management System (BMS)	SUM
Carried to Final Summary		R
Section No 6		
Bill No 1		
Mechanical work		

Item No	Quantity	Rate	Amount
SECTION 7			
BILL NO 1			
EXPANDED PUBLIC WORKS PROGRAMME			
PREAMBLES			
Tenderers are advised to study the Additional Specification SL: Employment and Training of Labour on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service, as bound elsewhere in the Bills of Quantities, and then price this Bill accordingly			
TRAINING OF YOUTH WORKERS (TARGET: 33 YOUTH WORKERS)			
Orientation, life skills development and technical training			
1		Orientation and life skills development training for youth workers for an average of 10 days per youth worker (ref. SL 11.01.01)	SUM
2		Technical skills training for youth workers for an average of 90 days per youth worker (ref. SL 11.01.02)	SUM
3		Provide Medical Surveillance	SUM
The above items are only applicable if NYDA do not fund the specific training			
4	Item	Payment reduction due to not meeting the training target (ref. SL 11.03)	
5		Profit and attendance on condition that services and cost has been incurred (on items ? and ? above)	%
TRAVELLING DURING ON-SITE TRAINING			
Practical Work based Experiential training for 10 days each (ref. SL 11.02.01			
6		.01 Travelling (based on R30 per day return trip/youth worker)	SUM
Carried Forward			R
Section No 7 Bill No 1 Expanded Public Works Programme			

Brought Forward

R

LOGISTICS FOR EXIT WORKSHOPS

16 Provide logistic items for exit workshop (Catering,
Orange Golf T-Shirts, Venue Hire and Sound System)

SUM

Carried to Final Summary

R

Section No 7
Bill No 1
Expanded Public Works Programme

Item No	SECTION 8	Quantity	Rate	Amount
	BILL NO 1			
	COVID OCCUPATIONAL HEALTH AND SAFETY			
	OHS Act and Construction Regulations (2014)			
1	Preparation of Contractor's Site Health and Safety Plan (Once off for the duration of contract)		SUM	
2	Review of OHS Plan for each assignment. Rate to include for risk assessment specific to the Covid-19 Epidemic and other adjustments to ensure compliance for the assignment		SUM	
3	Principal Contractor's Fixed Cost obligation in respect of the OHS Act and Construction Regulations Signage - COVID-19 Related		SUM	
	Principal Contractor's time related obligation in respect of the OHS Act and Construction Regulations			
	Provision for Personal Protective Equipment & Protective Clothing:			
4	i) Including but not restricted to reflective vests	No	100	
5	ii) Including but not restricted to reflective bibs	No	100	
6	iii) Including but not restricted to hard hats	No	100	
7	iv) Including but not restricted to protective footwear	No	100	
8	v) Including but not restricted to earplugs	No	10,000	
9	vi) Including but not restricted to dust masks	No	10,000	
10	vii) Face Mask for COVID-19 (respiratory protection as required)	No	3,000	
11	viii) Surgical Gloves (for security and cleaning team)	No	7,920	
	Carried Forward		R	
	Section No 8 Bill No 1 Covid Occupational Health and Safety			

Brought Forward			R
12	ix) Safety goggles for screening person	No	15
13	Provision for full time construction Health & Safety Officer	No	24
Costs for medical certificate and Medical Surveillance			
14	i) Initial (baseline) medical examinations Screenings for employees with COVID-19 symptoms	No	100
15	ii) Exit examinations	No	100
16	Re-induction training for COVID-19		SUM
17	Provision of First Aid Boxes	No	10
18	Non contact thermometers	No	20
Fixed-Charge items			
19	Contractual requirements		SUM
20	Facilities for contractors including offices, storage sheds, workshops, laboratories, living accommodation, ablution latrine facilities, tools and equipment, water supplies, electric power, communications, setting out of Works, security and dealing with water, traffic and access. Made COVID-19 Safe		SUM
Other fixed-charge obligations for COVID-19			
21	Hand Sanitiser - 500ml	No	800
22	Cleaning and detergents for cleaning everyday	No	800
23	Daily Logbook for above	No	24
24	Extra cleaning staff	No	15
Waste management			
25	Waste management for COVID -19 waste bins		SUM
Transport to Construction Site Safety for COVID-19			
26	Maintenance of a register for workers contacts		SUM
27	Removal of site establishment on completion		SUM
Carried to Final Summary			R
Section No 8			
Bill No 1			
Covid Occupational Health and Safety			

Section No	FINAL SUMMARY	Page No	Amount
1	Section 1 - Preliminaries	38	
2	Section 2 - Building work	136	
3	Section 3 - External work	148	
4	Section 4 - Prime cost and provisional amounts	152	
5	Section 5 - Electrical work	163	
6	Section 6 - Mechanical work	169	
7	Section 7 - Expanded Public Works Programme	172	
8	Section 8 - Covid Occupational Health and Safety	174	
	Sub-Total		R
	Value added tax		
	Allow 15% of Sub-Total		R
	Carried to Contract Data CE		R

C2.2.3

SPECIFICATIONS – IRONMONGERY SPECIFICATION

WE CARE ABOUT YOUR SOLUTIONS



ARCHITECTURAL IRONMONGERY SPECIFICATION

Project: STANDERTON LABOUR CENTRE

Project #: 8643 revision 3

Company: TIKI ARCHITECTS (PTY) LTD

Client: Gerald Halahala

Contact: 011 402 1936

Date: 09/25/2019

Materials: Aluminium (A01), Timber (T01), Fire (F01), Roller, Escape (E01)

GEZE CONSULTANT

Alicia Roux
0828631193

GEZE SPECIFIER

Germandt Putter
011 315 8286



All the following products have been tested to the European performance standards (EN's) and CE marked

- Controlled door closing devices BS EN 1154
- Electrically powered hold open devices BS EN 1155
- Door coordinator devices BS EN 1158
- Hardware for sliding and folding doors BS EN 1527
- Horizontal exit devices BS EN 1125
- Emergency exit devices BS EN 179

Abbreviations used, finishes and descriptions

- BT – Bolt through
- BTB - Back to back
- SSS – Satin stainless steel
- SNP – Satin nickel plated
- MK – Masterkey
- GMK – Grand masterkey
- K/PL – Kick plate
- P/PL – Push plate
- S/ST – Stainless steel
- N/S – Narrow style
- DW – Door width
- CW – Complete with
- CWAS – Complete with all screws
- CSK – Countersunk
- CYL – Cylinder
- H/O – Hold open
- SQ – Square
- RND – Round
- PB – Polished brass
- DBL – Double
- D/A – Delayed action
- OS – Offset
- RH – Right hand
- LH – Left hand
- N/PL – Nickel plated
- P/H – Pull handle
- DD – Double door
- SLD – Sliding
- STL – Steel
- ISM – Integrated mechanical closing sequence control
- E-ISM - Integrated mechanical closing sequence control and electro-mechanical hold open

General information

- All kicking plate sizes are approximate and site dimensions will be taken before supply
- TS430 -frame to be prepared
- Boxer-frame to be prepared

This schedule has been prepared without site of the buildings fire risk assessment.




DOOR NO.	DOOR TYPE	HAND	I/M TYPE	MK	LEVEL	DRAWING NUMBER	PLAN NO.	LOCATION
D12		...	D12-D19		GROUND	A 101	...	ASD COIDA
D13		LH	D12-D19		GROUND	A 101	...	SUPERVISORS
D14		RH	D12-D19		GROUND	A 101	...	L C MANAGER
D14		RH	D12-D19		GROUND	A 101	...	2X ADMIN CLERKS
D15		SLD	D15+D20+D21		GROUND	A 101	...	COMMITTEE ROOM 2
D15		SLD	D15+D20+D21		GROUND	A 101	...	COMMITTEE ROOM 1
D16		RH	D12-D19		GROUND	A 101	...	PHOTOCOPIER
D17		RH	D12-D19		GROUND	A 101	...	INSPECTORS
D18		LH	D12-D19		GROUND	A 101	...	TEAM LEADER
D19		RH	D12-D19		GROUND	A 101	...	G INSPECTORS
D20		STACK	D15+D20+D21		GROUND	A 101	...	COMMITTEE ROOMS
D21		...	D12-D19		GROUND	A 101	...	ASD COIDA
D22		ROL	D22		GROUND	A 101	...	GARAGE DOOR
D22		ROL	D22		GROUND	A 101	...	GARAGE DOOR
D22		ROL	D22		GROUND	A 101	...	GARAGE DOOR
D23		...	D12-D19		GROUND	A 101	...	CAUCUS ROOM
D24		DD	D24				...	RESOURCE CENTRE



IRONMONGERY BY TYPE

IRONMONGERY BY TYPE FOR TYPE D01

PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
GEZE EC DRIVE C/W	1	PCE	GEZE EC DRIVE SINGLE DOOR C/W RADARS, TPS,
GEZE EC DRIVE C/W			
			


DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D01		SLD		GROUND	A 101	ENTRANCE



IRONMONGERY BY TYPE FOR TYPE D02

PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION	
CZ1801EC	1	PCE	EC DRIVE DOUBLE DOOR COMPLETE WITH RADARS FOR SAFETY CURTAIN	
CZ1801EC				
				

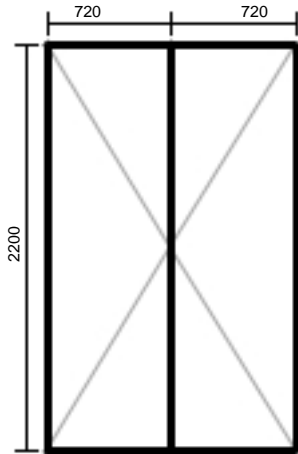
DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D02		SLD		GROUND	A 101	RESOURCE CENTRE



IRONMONGERY BY TYPE FOR TYPE D03

Aluminium
No of Doors: 1



QTY: 1

PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
HINGES	3	PR	HINGES SUPPLIED WITH FRAME
662/35	1	PCE	DEADLOCK EURO CYL WITH ROLLER BOLT N/S S/S 35MM
850-60/78	1	PCE	GEZE 5 PIN MK D/CYL 60MM 3K N.PL
JBS209OS/350 BTB	2	PR	PULL HANDLE OFFSET 350CTC BTB S/S
FLUSHBOLT	2	PCE	FLUSHBOLTS BY MANUFACTURER
GZZWDUSTK	1	PCE	DUST EXCLUDING KEEP FOR FLUSH BOLT N/P

HINGES	662/35	850-60/78	JBS209OS/350 BTB	FLUSHBOLT
BY MANUFACTURER				BY MANUFACTURER
GZZWDUSTK				

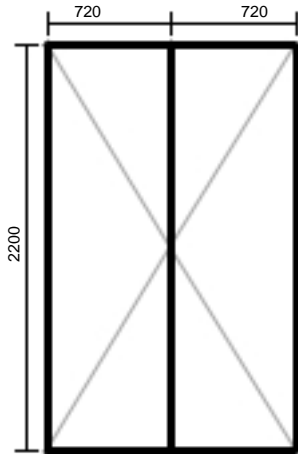
DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D03		DD		GROUND	A 101	PASSAGE 4



IRONMONGERY BY TYPE FOR TYPE D03.1

Aluminium
No of Doors: 1



QTY: 1

NOTES

DEADLOCK EURO CYL WITH ROLLER BOLT N/S S/S 35MM AS PER ARCHITECT.

PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
HINGES	3	PR	HINGES SUPPLIED WITH FRAME
AZ2003SR	1	PCE	GEZE TS2000G DOOR CLOSER WITH GUIDE RAIL SR COMPLETE
662/35	1	PCE	DEADLOCK EURO CYL WITH ROLLER BOLT N/S S/S 35MM
850-60/78	1	PCE	GEZE 5 PIN MK D/CYL 60MM 3K N.PL
JBS209OS/350 BTB	2	PR	PULL HANDLE OFFSET 350CTC BTB S/S
140/69	1	PCE	GEZE S/STEEL F/MNT DOORSTOP
FLUSHBOLT	2	PCE	FLUSHBOLTS BY MANUFACTURER
GZZWDUSTK	1	PCE	DUST EXCLUDING KEEP FOR FLUSH BOLT N/P

HINGES	AZ2003SR	662/35	850-60/78	JBS209OS/350 BTB
BY MANUFACTURER				
140/69	FLUSHBOLT	GZZWDUSTK		
	BY MANUFACTURER			

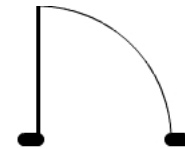
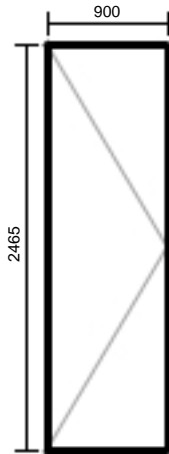
DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D03		DD		GROUND	A 101	ABLUTION LOBBY



IRONMONGERY BY TYPE FOR TYPE D04

Timber
No of Doors: 6



QTY LH: 0 QTY RH: 3

PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
HINGES	1.5	PR	HINGES SUPPLIED WITH FRAME
325/51	1	PCE	GEZE 76MM PROF CYL. SASHLOCK 22MM CP
885-66/78	1	PCE	GEZE 5 PIN NP K/CYL 66MM 3K N.PL
EDD104C069	1	PR	GEZE EDD/104C - SANFORD 19MM L/ON ROSE C/W CYL ESC
080/300	2	PCE	300MMXDWX0.9MM ST/STEEL KICK PLATE
140/69	1	PCE	GEZE S/STEEL F/MNT DOORSTOP
GLO3030	1	PCE	DOOR LOUVRE 300X300MM NATURALLY ANODISED

HINGES	325/51	885-66/78	EDD104C069	080/300
				
140/69	GLO3030			
				

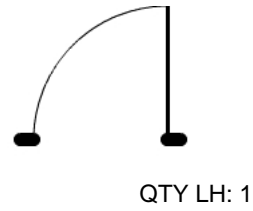
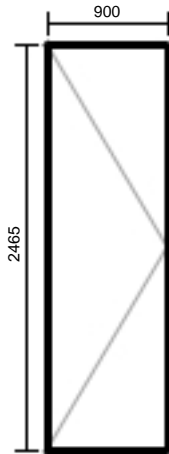
DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D04		RH		GROUND	A 101	CLEANERS STORE
D04		RH		GROUND	A 101	FIRST AID
D04		RH		GROUND	A 101	SERVER
D04		...		GROUND	A 101	STORE SPACES
D04		...		GROUND	A 101	PRINTING PAPER STORE
D04		...		GROUND	A 101	STORE



IRONMONGERY BY TYPE FOR TYPE D04.1

Timber
No of Doors: 1



PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
HINGES	1.5	PR	HINGES SUPPLIED WITH FRAME
325/51	1	PCE	GEZE 76MM PROF CYL. SASHLOCK 22MM CP
894-66/78	1	PCE	GEZE BATH/WC IND CYL 66MM N.PL
EDD104C069	1	PR	GEZE EDD/104C - SANFORD 19MM L/ON ROSE C/W CYL ESC
080/300	2	PCE	300MMXDWX0.9MM ST/STEEL KICK PLATE
140/69	1	PCE	GEZE S/STEEL F/MNT DOORSTOP
GLO3030	1	PCE	DOOR LOUVRE 300X300MM NATURALLY ANODISED

HINGES	325/51	894-66/78	EDD104C069	080/300
 BY MANUFACTURER				
140/69	GLO3030			
				

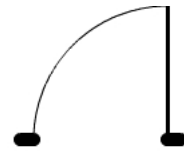
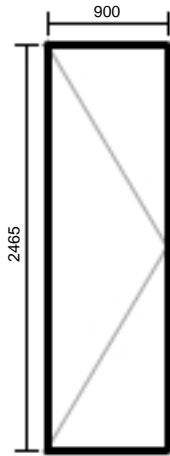
DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D04		LH		GROUND	A 101	GUARDS WC



IRONMONGERY BY TYPE FOR TYPE D04.3

Timber
No of Doors: 2



QTY LH: 2

PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
HINGES	1.5	PR	HINGES SUPPLIED WITH FRAME
AZ1503SR	1	PCE	GEZE TS1500G DOOR CLOSER WITH GUIDE RAIL SR COMPLETE
342/51	1	PCE	GEZE 76MM PROF CYL DEADLOCK 22MM CP
892-66/78	1	PCE	GEZE 5 PIN NP SINGLE CYL 3K N.PL
075/JD152	1	PCE	GEZE PLATE 150X300X1.6 S/S C/W JD213/152 BT P/HANDLE 6XCSK
079/300/B	1	PCE	PUSH PLATE 300X150X1.6MM BLANK S/S 6 FIX HOLES
079/160E/F	1	PCE	GEZE S/ST P/PL 160X160X1.2MM E/FEM.
080/300	2	PCE	300MMXDWX0.9MM ST/STEEL KICK PLATE
963/03	6	PCE	5.4MM PATENT F/SCREW NP 40-55MM FOR P/PLATES
ED908/CYL	0.5	PR	GEZE PROF CYLINDER ESCUTCHEON S/SS
GLO3030	1	PCE	DOOR LOUVRE 300X300MM NATURALLY ANODISED
ND0501	3	PCE	PATENT FIX SCREWS M5 FOR DOORCLOSERS

HINGES	AZ1503SR	342/51	892-66/78	075/JD152
079/300/B	079/160E/F	080/300	963/03	ED908/CYL
GLO3030	ND0501			

BY MANUFACTURER



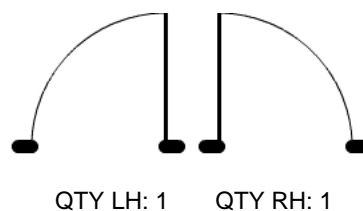
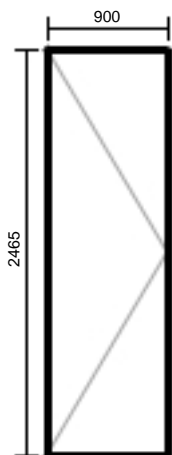
DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D04		LH		GROUND	A 101	FEMALE ABLUTION
D04		LH		GROUND	A 101	STAFF FEMALE ABLUTION



IRONMONGERY BY TYPE FOR TYPE D04.4

Timber
No of Doors: 2



PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
HINGES	1.5	PR	HINGES SUPPLIED WITH FRAME
AZ1503SR	1	PCE	GEZE TS1500G DOOR CLOSER WITH GUIDE RAIL SR COMPLETE
342/51	1	PCE	GEZE 76MM PROF CYL DEADLOCK 22MM CP
892-66/78	1	PCE	GEZE 5 PIN NP SINGLE CYL 3K N.PL
075/JD152	1	PCE	GEZE PLATE 150X300X1.6 S/S C/W JD213/152 BT P/HANDLE 6XCSK
079/300/B	1	PCE	PUSH PLATE 300X150X1.6MM BLANK S/S 6 FIX HOLES
079/160E/M	1	PCE	GEZE S/ST P/PL 160X160X1.2MM E/MALE
080/300	2	PCE	300MMXDWX0.9MM ST/STEEL KICK PLATE
963/03	6	PCE	5.4MM PATENT F/SCREW NP 40-55MM FOR P/PLATES
ED908/CYL	0.5	PR	GEZE PROF CYLINDER ESCUTCHEON S/SS
GLO3030	1	PCE	DOOR LOUVRE 300X300MM NATURALLY ANODISED
ND0501	3	PCE	PATENT FIX SCREWS M5 FOR DOORCLOSERS

HINGES	AZ1503SR	342/51	892-66/78	075/JD152
079/300/B	079/160E/M	080/300	963/03	ED908/CYL
GLO3030	ND0501			



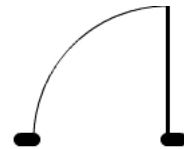
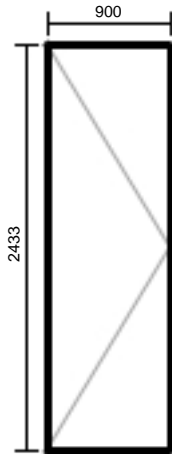
DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D04		RH		GROUND	A 101	STAFF MALE ABLUTION
D04		LH		GROUND	A 101	MALE ABLUTION



IRONMONGERY BY TYPE FOR TYPE D06

Timber
No of Doors: 1



QTY LH: 1

PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
HINGES	1.5	PR	HINGES SUPPLIED WITH FRAME
AZ4001DA	1	PCE	GEZE TS4000P DEL ACTION DOOR CLOSER PARALLEL ARM COMPLETE
195/01	1	PCE	MORTICE INDICATOR BATHROOM/WC SET COMPLETE S/S
JD213/305F	2	PCE	GEZE P/HANDLE 305CTC FLANGE FIXING S/STEEL
079/160E/P	1	PCE	GEZE S/ST P/PL 160X160X1.2MM E/PAR
080/300	2	PCE	300MMXDWX0.9MM ST/STEEL KICK PLATE
140/69	1	PCE	GEZE S/STEEL F/MNT DOORSTOP
GLO3030	1	PCE	DOOR LOUVRE 300X300MM NATURALLY ANODISED

HINGES	AZ4001DA	195/01	JD213/305F	079/160E/P
BY MANUFACTURER				
080/300	140/69	GLO3030		

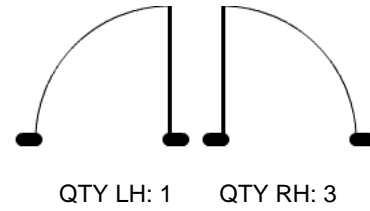
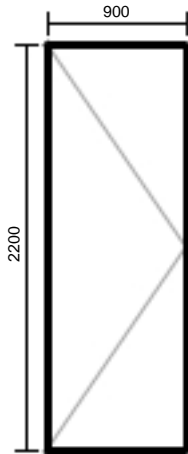
DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D06		LH		GROUND	A 101	DISABLED ABLUTION



IRONMONGERY BY TYPE FOR TYPE D07

Aluminium
No of Doors: 4



PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION	
HINGES	1.5	PR	HINGES SUPPLIED WITH FRAME	
625/35	1	PCE	SASHLOCK EURO CYL WITH DRAWBACK LATCH N/S S/S 35MM B/S	
850-60/78	1	PCE	GEZE 5 PIN MK D/CYL 60MM 3K N.PL	
DB171BNC01	1	PR	TOKYO LEVER ON N/STYLE BACKPLATE CYL S/A	
140/69	1	PCE	GEZE S/STEEL F/MNT DOORSTOP	

HINGES	625/35	850-60/78	DB171BNC01	140/69
<p>BY MANUFACTURER</p>				

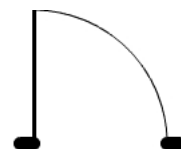
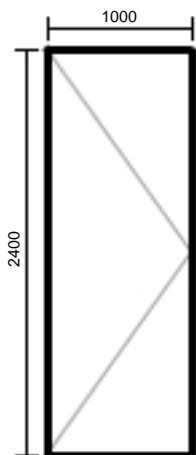
DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D07		LH		GROUND	A 101	CAREER COUNSELLOR
D07		RH		GROUND	A 101	KITCHENETTE
D07		RH		GROUND	A 101	PUBLIC COMPUTERS
D07		RH		GROUND	A 101	ESP ROOM



IRONMONGERY BY TYPE FOR TYPE D08

Fire
No of Doors: 3



QTY LH: 0 QTY RH: 3

PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
HINGES	1.5	PR	HINGES SUPPLIED WITH FRAME
AZ3003SR	1	PCE	GEZE TS3000 DOOR CLOSER WITH GUIDE RAIL SR COMPLETE
342/51	1	PCE	GEZE 76MM PROF CYL DEADLOCK 22MM CP
880-66/78	1	PCE	GEZE 5 PIN NP D/CYL 66MM 3K N.PL
075/JD152	1	PCE	GEZE PLATE 150X300X1.6 S/S C/W JD213/152 BT P/HANDLE 6XCSK
079/300/B	1	PCE	PUSH PLATE 300X150X1.6MM BLANK S/S 6 FIX HOLES
963/03	6	PCE	5.4MM PATENT F/SCREW NP 40-55MM FOR P/PLATES
ED908/CYL	1	PR	GEZE PROF CYLINDER ESCUTCHEON S/SS
ND0501	3	PCE	PATENT FIX SCREWS M5 FOR DOORCLOSERS

HINGES	AZ3003SR	342/51	880-66/78	075/JD152
				
079/300/B	963/03	ED908/CYL	ND0501	
				

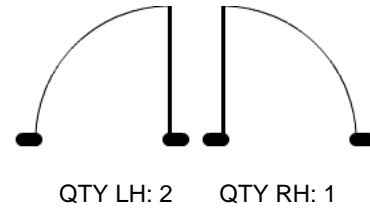
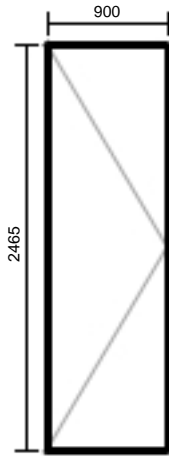
DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D08		RH		GROUND	A 101	STORE 2
D08		RH		GROUND	A 101	CONFIDENTIAL REGISTRY
D08		RH		GROUND	A 101	STORE 1



IRONMONGERY BY TYPE FOR TYPE D09

Timber
No of Doors: 4



PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
HINGES	1.5	PR	HINGES SUPPLIED WITH FRAME
325/51	1	PCE	GEZE 76MM PROF CYL. SASHLOCK 22MM CP
850-66/78	1	PCE	GEZE 5 PIN MK D/CYL 66MM 3K N.PL
EDD104C069	1	PR	GEZE EDD/104C - SANFORD 19MM L/ON ROSE C/W CYL ESC
140/69	1	PCE	GEZE S/STEEL F/MNT DOORSTOP

HINGES	325/51	850-66/78	EDD104C069	140/69
BY MANUFACTURER				

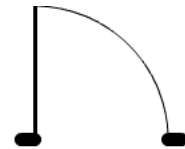
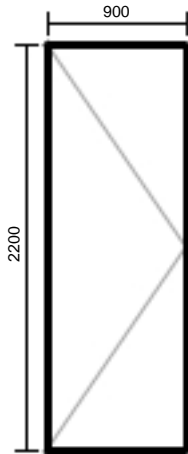
DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D09		RH		GROUND	A 101	COVERED PATIO
D09		LH		GROUND	A 101	GUARDS
D09		LH		GROUND	A 101	PASSAGE
D09		...		GROUND	A 101	EXTERIOR STORE



IRONMONGERY BY TYPE FOR TYPE D10

Aluminium
No of Doors: 1



QTY LH: 0 QTY RH: 1

PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
HINGES	1.5	PR	HINGES SUPPLIED WITH FRAME
625/35	1	PCE	SASHLOCK EURO CYL WITH DRAWBACK LATCH N/S S/S 35MM B/S
850-60/78	1	PCE	GEZE 5 PIN MK D/CYL 60MM 3K N.PL
DB171BNC01	1	PR	TOKYO LEVER ON N/STYLE BACKPLATE CYL S/A
140/69	1	PCE	GEZE S/STEEL F/MNT DOORSTOP

HINGES	625/35	850-60/78	DB171BNC01	140/69
<p>BY MANUFACTURER</p>				

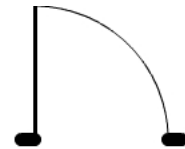
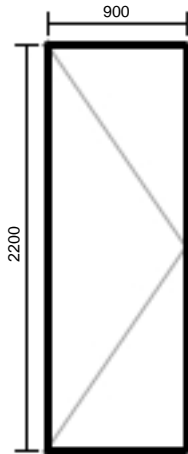
DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D10		RH		GROUND	A 101	SUPERVISORS



IRONMONGERY BY TYPE FOR TYPE D11

Aluminium
No of Doors: 1



QTY LH: 0 QTY RH: 1

NOTES

DEADLOCK EURO CYL WITH ROLLER BOLT N/S S/S 35MM AS PER ARCHITECT.

PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
HINGES	1.5	PR	HINGES SUPPLIED WITH FRAME
AZ2003SR	1	PCE	GEZE TS2000G DOOR CLOSER WITH GUIDE RAIL SR COMPLETE
662/35	1	PCE	DEADLOCK EURO CYL WITH ROLLER BOLT N/S S/S 35MM
850-60/78	1	PCE	GEZE 5 PIN MK D/CYL 60MM 3K N.PL
JBS209OS/350 BTB	1	PR	PULL HANDLE OFFSET 350CTC BTB S/S
140/69	1	PCE	GEZE S/STEEL F/MNT DOORSTOP

HINGES	AZ2003SR	662/35	850-60/78	JBS209OS/350 BTB
<p>BY MANUFACTURER</p>				
140/69				

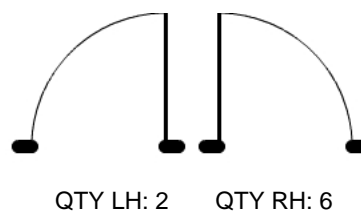
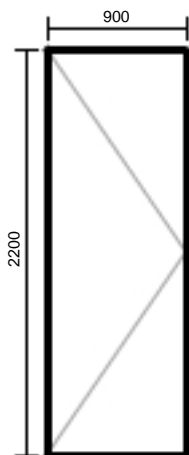
DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D11		RH		GROUND	A 101	WAITING AREA



IRONMONGERY BY TYPE FOR TYPE D12-D19

Aluminium
No of Doors: 11



PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
HINGES	1.5	PR	HINGES SUPPLIED WITH FRAME
625/35	1	PCE	SASHLOCK EURO CYL WITH DRAWBACK LATCH N/S S/S 35MM B/S
850-60/78	1	PCE	GEZE 5 PIN MK D/CYL 60MM 3K N.PL
DB171BNC01	1	PR	TOKYO LEVER ON N/STYLE BACKPLATE CYL S/A
140/69	1	PCE	GEZE S/STEEL F/MNT DOORSTOP

HINGES	625/35	850-60/78	DB171BNC01	140/69
BY MANUFACTURER				

DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D12		RH		GROUND	A 101	ASD
D12		...		GROUND	A 101	ASD COIDA
D13		LH		GROUND	A 101	SUPERVISORS
D14		RH		GROUND	A 101	L C MANAGER
D14		RH		GROUND	A 101	2X ADMIN CLERKS
D16		RH		GROUND	A 101	PHOTOCOPIER
D17		RH		GROUND	A 101	INSPECTORS
D18		LH		GROUND	A 101	TEAM LEADER
D19		RH		GROUND	A 101	G INSPECTORS
D21		...		GROUND	A 101	ASD COIDA
D23		...		GROUND	A 101	CAUCUS ROOM



IRONMONGERY BY TYPE FOR TYPE D15+D20+D21

NOTES

DOORS IRONMONGERY AS PER MANUFACTURER.

PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
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DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D15		SLD		GROUND	A 101	COMMITTEE ROOM 2
D15		SLD		GROUND	A 101	COMMITTEE ROOM 1
D20		STACK		GROUND	A 101	COMMITTEE ROOMS




IRONMONGERY BY TYPE FOR TYPE D22

NOTES

ROLLER SHUTTER DOOR AS PER MANUFACTURER.

PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
870-60/71	2	PCE	GEZE 50MM BR PADLOCK MK (PA303MK)
870-60/71			
			

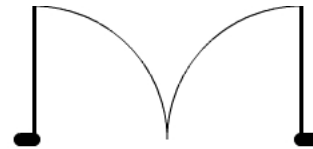
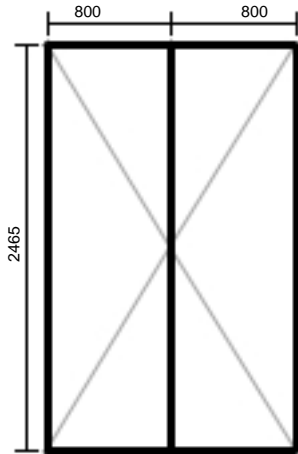
DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D22		ROL		GROUND	A 101	GARAGE DOOR
D22		ROL		GROUND	A 101	GARAGE DOOR
D22		ROL		GROUND	A 101	GARAGE DOOR



IRONMONGERY BY TYPE FOR TYPE D24

Escape
No of Doors: 1



QTY: 1

PRODUCTS

CODE	QTY/DR	UNIT	DESCRIPTION
HINGES	3	PR	HINGES SUPPLIED WITH FRAME
AZ3034SR	1	PCE	GEZE TS3000 DOOR CLOSER C/W ISM GUIDE RAIL COMPLETE
HZ3120SR	1	PCE	EXIDOR DOUBLE PANIC BOLT COMP. (PULLMAN) SILVER
ND0501	6	PCE	PATENT FIX SCREWS M5 FOR DOORCLOSERS

HINGES	AZ3034SR	HZ3120SR	ND0501
BY MANUFACTURER			

DOORS

DOOR NO.	DOOR TYPE	HAND	MK	LEVEL	DRAWING NUMBER	LOCATION
D24		DD				RESOURCE CENTRE



BILL OF QUANTITIES

STANDERTON LABOUR CENTRE

FOR: **TIKI ARCHITECTS (PTY) LTD**

OF DOORS:

57

REPRESENTATIVE: **ALICIA ROUX**

SPECIFIER: **GERMANDT PUTTER**

SPECIFICATION # **8643**

REVISION # **3**

REVISION DATE: **2019-09-25**

CODE	DESCRIPTION	UNIT	QTY
HINGES	HINGES SUPPLIED WITH FRAME	PR	78
AZ1503SR	GEZE TS1500G DOOR CLOSER WITH GUIDE RAIL SR COMPLETE	PCE	4
AZ2003SR	GEZE TS2000G DOOR CLOSER WITH GUIDE RAIL SR COMPLETE	PCE	2
AZ3003SR	GEZE TS3000 DOOR CLOSER WITH GUIDE RAIL SR COMPLETE	PCE	3
AZ3034SR	GEZE TS3000 DOOR CLOSER C/W ISM GUIDE RAIL COMPLETE	PCE	1
AZ4001DA	GEZE TS4000P DEL ACTION DOOR CLOSER PARALLEL ARM COMPLETE	PCE	1
195/01	MORTICE INDICATOR BATHROOM/WC SET COMPLETE S/S	PCE	11
325/51	GEZE 76MM PROF CYL. SASHLOCK 22MM CP	PCE	11
342/51	GEZE 76MM PROF CYL DEADLOCK 22MM CP	PCE	7
625/35	SASHLOCK EURO CYL WITH DRAWBACK LATCH N/S S/S 35MM B/S	PCE	16
662/35	DEADLOCK EURO CYL WITH ROLLER BOLT N/S S/S 35MM	PCE	3
850-60/78	GEZE 5 PIN MK D/CYL 60MM 3K N.PL	PCE	19
850-66/78	GEZE 5 PIN MK D/CYL 66MM 3K N.PL	PCE	4
880-66/78	GEZE 5 PIN NP D/CYL 66MM 3K N.PL	PCE	3
885-66/78	GEZE 5 PIN NP K/CYL 66MM 3K N.PL	PCE	6
892-66/78	GEZE 5 PIN NP SINGLE CYL 3K N.PL	PCE	4
894-66/78	GEZE BATH/WC IND CYL 66MM N.PL	PCE	1
075/JD152	GEZE PLATE 150X300X1.6 S/S C/W JD213/152 BT P/HANDLE 6XCSK	PCE	7
079/300/B	PUSH PLATE 300X150X1.6MM BLANK S/S 6 FIX HOLES	PCE	7
DB171BNC01	TOKYO LEVER ON N/STYLE BACKPLATE CYL S/A	PR	16
EDD104C069	GEZE EDD/104C - SANFORD 19MM L/ON ROSE C/W CYL ESC	PR	11
JBS209OS/350 BTB	PULL HANDLE OFFSET 350CTC BTB S/S	PR	5
JD213/111 BTB	GEZE BTB S.S P/HND 130 X 111 X 19	PR	10
JD213/305F	GEZE P/HANDLE 305CTC FLANGE FIXING S/STEEL	PCE	2
HZ3120SR	EXIDOR DOUBLE PANIC BOLT COMP. (PULLMAN) SILVER	PCE	1
079/160E/F	GEZE S/ST P/PL 160X160X1.2MM E/FEM.	PCE	2
079/160E/M	GEZE S/ST P/PL 160X160X1.2MM E/MALE	PCE	2
079/160E/P	GEZE S/ST P/PL 160X160X1.2MM E/PAR	PCE	1
080/300	300MMXDWX0.9MM ST/STEEL KICK PLATE	PCE	24
140/69	GEZE S/STEEL F/MNT DOORSTOP	PCE	30
154/69	HAT AND COAT HOOK WITH R/BUFF ST/S	PCE	10
870-60/71	GEZE 50MM BR PADLOCK MK (PA303MK)	PCE	6
963/03	5.4MM PATENT F/SCREW NP 40-55MM FOR P/PLATES	PCE	42
CZ1801EC	EC DRIVE DOUBLE DOOR COMPLETE WITH RADARS FOR SAFETY CURTAIN	PCE	1
ED908/CYL	GEZE PROF CYLINDER ESCUTCHEON S/SS	PR	5
FLUSHBOLT	FLUSHBOLTS BY MANUFACTURER	PCE	4
GEZE EC DRIVE C/W	GEZE EC DRIVE SINGLE DOOR C/W RADARS, TPS,	PCE	1



CODE	DESCRIPTION	UNIT	QTY
GLO3030	DOOR LOUVRE 300X300MM NATURALLY ANODISED	PCE	12
GZZWDUSTK	DUST EXCLUDING KEEP FOR FLUSH BOLT N/P	PCE	2
ND0501	PATENT FIX SCREWS M5 FOR DOORCLOSERS	PCE	27

Terms and Conditions Apply



REVISION 3 AMENDMENTS

DOORS AMENDED

DOOR NO.	FIELD	FROM	TO
D02	sortOrder		1
D03	sortOrder		2
D03	IM Type	D03	D03.1
	Location	PASSAGE 4	ABLUTION LOBBY
	sortOrder		2
D04	sortOrder		4
D04	IM Type	D04	D04.4
	Location	CLEANERS STORE	STAFF MALE ABLUTION
	sortOrder		4
D04	IM Type	D04	D04.4
	Location	FIRST AID	STAFF MALE ABLUTION
	sortOrder		4
D04	Handing	LH	RH
	IM Type	D04.1	D04.4
	Location	GUARDS WC	STAFF MALE ABLUTION
	sortOrder		4
D04	Handing	LH	RH
	IM Type	D04.3	D04.4
	Location	FEMALE ABLUTION	STAFF MALE ABLUTION
	sortOrder		4
D04	IM Type	D04	D04.4
	Location	SERVER	STAFF MALE ABLUTION
	sortOrder		4
D04	Handing	LH	RH
	IM Type	D04.3	D04.4
	Location	STAFF FEMALE ABLUTION	STAFF MALE ABLUTION
	sortOrder		4
D04	Handing	LH	RH
	Location	MALE ABLUTION	STAFF MALE ABLUTION
	sortOrder		4
D04	Handing	...	RH
	IM Type	D04	D04.4
	Location	STORE SPACES	STAFF MALE ABLUTION
	sortOrder		4
D04	Handing	...	RH
	IM Type	D04	D04.4
	Location	PRINTING PAPER STORE	STAFF MALE ABLUTION
	sortOrder		4
D04	Handing	...	RH
	IM Type	D04	D04.4
	Location	STORE	STAFF MALE ABLUTION
	sortOrder		4
D05	Handing	LH	RH
	sortOrder		15
D05	Handing	LH	RH
	sortOrder		15



DOOR NO.	FIELD	FROM	TO
D05	Handing	LH	RH
	sortOrder		15
D05	sortOrder		15
D05	Handing	LH	RH
	sortOrder		15
D05	Handing	LH	RH
	sortOrder		15
D05	sortOrder		15
D05	Handing	LH	RH
	sortOrder		15
D05	Handing	LH	RH
	sortOrder		15
D05	Handing	LH	RH
	sortOrder		15
D06	sortOrder		25
D07	sortOrder		26
D07	Handing	RH	LH
	Location	KITCHENETTE	CAREER COUNSELLOR
	sortOrder		26
D07	Handing	RH	LH
	Location	PUBLIC COMPUTERS	CAREER COUNSELLOR
	sortOrder		26
D07	Handing	RH	LH
	Location	ESP ROOM	CAREER COUNSELLOR
	sortOrder		26
D08	sortOrder		30
D08	Location	CONFIDENTIAL REGISTRY	STORE 2
	sortOrder		30
D08	Location	STORE 1	STORE 2
	sortOrder		30
D09	sortOrder		33
D09	Handing	LH	RH
	Location	GUARDS	COVERED PATIO
	sortOrder		33
D09	Handing	LH	RH
	Location	PASSAGE	COVERED PATIO
	sortOrder		33
D09	Handing	...	RH
	Location	EXTERIOR STORE	COVERED PATIO
	sortOrder		33
D10	sortOrder		37
D11	sortOrder		38
D12	sortOrder		39
D12	Handing	...	RH
	Location	ASD COIDA	ASD
	sortOrder		39
D13	sortOrder		41
D14	sortOrder		42



DOOR NO.	FIELD	FROM	TO
D14	Location	2X ADMIN CLERKS	L C MANAGER
	sortOrder		42
D15	sortOrder		44
D15	Location	COMMITTEE ROOM 1	COMMITTEE ROOM 2
	sortOrder		44
D16	sortOrder		46
D17	sortOrder		47
D18	sortOrder		48
D19	sortOrder		49
D20	sortOrder		50
D21	sortOrder		51
D22	sortOrder		52
D22	sortOrder		52
D22	sortOrder		52
D23	sortOrder		55
D24	Handing		DD
	notes	DD OR SINGLE DOOR?	
	sortOrder		56

TYPES AMENDED

TYPE NO.	FIELD	FROM	TO
D24	Format		Double Door - Single Action
	Height (mm)		2465
	Notes	DOOR TO BE ADVISED IF ITS A S	
	Width Left (mm)		800
	Width Right (mm)		800

TYPE PRODUCTS ADDED/DELETED

TYPE PRODUCTS ADDED	TYPE PRODUCTS DELETED
Type D24	Type D24
HINGES	
AZ3034SR	
HZ3120SR	
ND0501	

BILL OF QUANTITIES - ITEMS AMENDED

ITEM	QTY FROM	QTY TO	VALUE FROM	VALUE TO
HINGES - HINGES SUPPLIED WITH FRAME	75	78		POR
ND0501 - PATENT FIX SCREWS M5 FOR DOORCLOSERS	21	27	R266.74	R342.95
AZ3034SR - GEZE TS3000 DOOR CLOSER C/W ISM GUIDE R	0	1		R6,698.83
HZ3120SR - EXIDOR DOUBLE PANIC BOLT COMP. (PULLMAN	0	1		R4,704.68

PART C3
SCOPE OF WORK

C3.1

SCOPE OF WORK

PG-01.2 (EC) SCOPE OF WORKS – JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 4.1 of March 2005)

Project title:	Mpumalanga: Standerton Labour Centre - Construction of a new labour centre		
Tender no:	NST21/003	Reference no:	

C3. Scope of Works

1. **GENERAL** (*Note to departmental project manager/consultant(s): This item serves as a guideline only and must be deleted*)

(a) *The Standard for Uniformity in Construction Procurement published in terms of the Construction Industry Development Board (CIDB) Act, 2000 (Act no. 38 of 2000), the Standardized Construction Procurement Documents for Engineering and Construction Works as issued by the CIDB and any other relevant documentation pertaining thereto must be studied and all principles in this regard must be applied to all procurement documentation, practices and procedures.*

(b) *The consultant(s)/project manager must acquaint themselves fully with all relevant matters pertaining to this section in order to enable prospective tenderers to price for all eventualities.*

2. *The following serves as a guideline only with regard to items to be included in the Scope of Works. Any additional items deemed necessary must be included herein. (Delete this instruction and re-number the items as required)*

(a) **EXTENT OF THE WORKS**

Insert a brief description of what will be expected in terms of the works. E.g. Alterations, renovations, refurbishments, new construction, site works, etc., as well as the type of construction and materials/finishes to be used.

(b) **ORDER OF THE WORKS**

Describe any procedure affecting the sequence of construction or other activities.

Contract details for the works in sections, if applicable, must be inserted in clause 42.2.8 of form DPW-04 (EC): Contract Data. (Delete this instruction)

(c) **BUILDINGS OCCUPIED**

Describe any specific restrictions with regard to buildings in use.

Specific requirements must be described in clause 12.1.6 of the Schedule of Variables, Section B, JBCC Preliminaries. (Delete this instruction)

(d) **ACCESS**

Provide details of any special requirements/restrictions with regard to access.

(e) **LABOUR-INTENSIVE WORKS**

Should labour-intensive works be applicable to the contract the following clauses must be inserted in the Scope of Works. (Delete item in total if labour-intensive works are not applicable to the contract)

Employer's objectives:

The employer's objectives are to deliver public infrastructure using labour-intensive methods in accordance with EPWP Guidelines.

Labour-intensive works:

Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of the scope of work.

Labour-intensive competencies of supervisory and management staff:

Contractors shall only engage supervisory and management staff in labour-intensive works that have completed the skills programme including Foremen/ Supervisors at NQF level 4 “National Certificate: Supervision of Civil Engineering Construction Processes” and Site Agent/ Manager at NQF level 5 “Manage Labour-Intensive Construction Processes” or equivalent QCTO qualifications (See Appendix C) at NQF outlined in Table 1

(f) GENERIC LABOUR-INTENSIVE SPECIFICATION

Should labour-intensive works be applicable to the contract the following Generic Labour-intensive Specification (informed by SANS 1921-5, Construction and management requirements for works contracts - Part 5: Earthworks) which covers activities which are to be performed by hand, should be inserted in the Scope of Works without amendment or modification as set out below. (Delete item in total if labour-intensive works are not applicable to the contract)

Contractors are referred to the Guidelines for the Implementation of Labour-intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP) for the generic labour-intensive specification applicable to the contract.

This specification establishes general requirements for activities which are to be executed by hand involving the following:

- trenches having a depth of less than 1.5 metres
- stormwater drainage
- roads
- sidewalks and non-motorised transport infrastructure
- water and sanitation

Precedence

Where this specification is in conflict with any other standard or specification referred to in the Scope of Works to this Contract, the requirements of this specification shall prevail

Hand excavateable material

Hand excavateable material is:

a) granular materials:

- i) whose consistency when profiled may in terms of table 2 be classified as very loose, loose, medium dense, or dense; or
- ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 15 blows of a dynamic cone penetrometer is required to penetrate 100mm;

b) cohesive materials:

- i) whose consistency when profiled may in terms of table 2 be classified as very soft, soft, firm, stiff and stiff / very stiff; or
- ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 8 blows of a dynamic cone penetrometer is required to penetrate 100mm;

Note

- 1) A boulder is material with a particle size greater than 200mm, a cobble and gravel is material between 60 and 200mm.
- 2) A dynamic cone penetrometer is an instrument used to measure the in-situ shear resistance of a soil comprising a drop weight of approximately 10 kg which falls through a height of 400mm and drives a cone having a maximum diameter of 20mm (cone angle of 60° with respect to the horizontal) into the material being used.

Table 2: Consistency of materials when profiled			
GRANULAR MATERIALS		COHESIVE MATERIALS	
CONSISTENCY	DESCRIPTION	CONSISTENCY	DESCRIPTION
Very loose	Crumbles very easily when scraped with a	Very soft	Geological pick head can easily be pushed in as far

	geological pick.		as the shaft of the handle.
Loose	Small resistance to penetration by sharp end of a geological pick.	Soft	Easily dented by thumb; sharp end of a geological pick can be pushed in 30-40 mm; can be moulded by fingers with some pressure.
Medium dense	Considerable resistance to penetration by sharp end of a geological pick.	Firm	Indented by thumb with effort; sharp end of geological pick can be pushed in up to 10 mm; very difficult to mould with fingers; can just be penetrated with an ordinary hand spade.
Dense	Very high resistance to penetration by the sharp end of a geological pick; requires many blows for excavation.	Stiff	Can be indented by thumb-nail; slight indentation produced by pushing geological pick point into soil; cannot be moulded by fingers.
Very dense	High resistance to repeated blows of a geological pick.	Very stiff	Indented by thumb-nail with difficulty; slight indentation produced by blow of a geological pick point.

Trench excavation

All hand excavateable material in trenches having a depth of less than 1,5 metres shall be excavated by hand.

Compaction of backfilling to trenches (areas not subject to traffic)

Backfilling to trenches shall be placed in layers of thickness (before compaction) not exceeding 100mm. Each layer shall be compacted using hand stampers;

a) to 90% Mod AASHTO;

b) such that in excess of 5 blows of a dynamic cone penetrometer (DCP) is required to penetrate 100 mm of the backfill, provided that backfill does not comprise more than 10% gravel of size less than 10mm and contains no isolated boulders, or

c) such that the density of the compacted trench backfill is not less than that of the surrounding undisturbed soil when tested comparatively with a DCP.

Excavation

All excavateable material including topsoil classified as hand excavateable shall be excavated by hand. Harder material may be loosened by mechanical means prior to excavation by hand. Any material which presents the possibility of danger or injury to workers shall not be excavated by hand.

Clearing and grubbing

Grass and bushes shall be cleared by hand.

Shaping

All shaping shall be undertaken by hand.

Loading

All loading shall be done by hand. Haulage equipment should be selected in a manner that allows loading by hand to the greatest extent possible.

Haul

Excavation material shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

Offloading

All material, however transported, is to be off-loaded by hand, unless tipper-trucks are utilised for haulage.

Spreading

All material shall be spread by hand.

Compaction

Small areas may be compacted by hand provided that the specified compaction is achieved. Appropriate rollers should be used where higher (than can be achieved by hand) levels of compaction are required or for large areas.

Grassing

All grassing shall be undertaken by sprigging, sodding, or seeding by hand.

Stone pitching and rubble concrete masonry

All stone required for stone pitching and rubble concrete masonry, whether grouted or dry, must be collected, loaded, off loaded and placed by hand.

Sand and stone shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

Grout shall be mixed and placed by hand.

Manufactured Elements

Elements manufactured or supplied by the Contractor, such as manhole rings and cover slabs, precast concrete planks and pipes, masonry units and edge beams shall not individually, have a mass of more than 320kg. Where the mass of an element exceeds 55 kg, consideration should be given to the size of the element relative to its total mass related to the number of workers who would be needed to lift such mass

C3.2

HIV/AIDS SPECIFICATION AND SCHEDULES

SECTION

HIV/AIDS SPECIFICATION

HIV/AIDS REQUIREMENTS

1 SCOPE

This specification contains all requirements applicable to the Contractor for creating HIV/AIDS awareness amongst all of the Workers involved in this project for the duration of the construction period, through the following strategies:

- Raising awareness about HIV/AIDS through education and information on the nature of the disease, how it is transmitted, safe sexual behaviour, attitudes towards people affected and people living with HIV/AIDS, how to live a healthy lifestyle with HIV/AIDS, the importance of voluntary testing and counselling, the diagnosis and treatment of Sexually Transmitted Infections and the closest health Service Providers
- Informing Workers of their rights with regard to HIV/AIDS in the workplace
- Providing Workers with access to condoms and other awareness material that will enable them to make informed decisions about sexual practices

2 DEFINITIONS AND ABBREVIATIONS

2.1 Definitions

Service Provider: The natural or juristic person recognised and approved by the Department of Public Works as a specialist in conducting HIV/AIDS awareness programmes

Service Provider Workshop Plan: A plan outlining the content, process and schedule of the training and education workshops, presented by a Service Provider which has been approved by the Representative/Agent

Worker: Person in the employ of the Contractor or under the direction or supervision of the Contractor or any of his Sub-contractors, who is on site for a minimum period of 30 days in all

2.2 Abbreviations

HIV	:	Human Immunodeficiency Virus
AIDS	:	Acquired Immune Deficiency Syndrome
STI	:	Sexually Transmitted Infection

3 BASIC METHOD REQUIREMENT

The Contractor shall, through a Service Provider, conduct onsite workshops with the Workers

The Service Provider shall develop and compile a Service Provider Workshop Plan to be presented at the workshops and which will be best suited for this project to achieve the specified objectives with regard to HIV/AIDS awareness.

The Service Provider Workshop Plan shall be based on the following information provided by the Contractor:

- Number of Workers and Sub-contractors on site
- When new Workers or Sub-contractors will join the construction project

- Duration of Workers and Sub-contractors on site
- How the maximum number of Workers can be targeted with workshops
- How the Contractor prefers workshops to be scheduled, e.g. three hourly sessions per Worker, or one 2.5 hour workshop per Worker
- Profile of Workers, including educational level, age and gender (if available)
- Preferred time of day or month to conduct workshops
- A Gantt chart reflecting the construction programme, for scheduling of workshops
- Suitable venues for workshops

The Contractor shall submit the Service Provider Workshop Plan for approval within 21 days after the tender acceptance date. After approval by the Representative/Agent, the Contractor shall make available a suitable venue that will be conducive to education and training

The Service Provider Workshop Plan shall address, but will not be limited to the following:

- 3.1 The nature of the disease;
- 3.2 How it is transmitted;
- 3.3 Safe sexual behaviour;
- 3.4 Post exposure services such as voluntary counselling and testing (VCT) and nutritional plans for people living with HIV/AIDS;
- 3.5 Attitudes towards other people with HIV/AIDS;
- 3.6 Rights of the Worker in the workplace;
- 3.7 How the Awareness Champion will be equipped prior to commencement of the HIV/AIDS awareness programme with basic HIV/AIDS information and the necessary skills to handle questions regarding the HIV/AIDS awareness programme on site sensitively and confidentially;
- 3.8 How the Service Provider will support the Awareness Champion;
- 3.9 Location and contact numbers of the closest clinics, VCT facilities, counselling services and referral systems;
- 3.10 How the workshops will be presented, including frequency and duration;
- 3.11 How the workshops will fit in with the construction programme;
- 3.12 How the Service Provider will assess the knowledge and attitude levels of attendees to structure workshops accordingly;
- 3.13 How the video will be used;
- 3.14 How the Service Provider will elicit maximum participation from the Workers;
- 3.15 A questions and answers slot (interactive session)

The Service Provider Workshop Plan shall encompass the Specific Learning Outcomes (SLO) as stipulated

4 HIV/ AIDS AWARENESS EDUCATION AND TRAINING

4.1 Workshops

The Contractor shall ensure that all Workers attend the workshops

The workshops shall adequately deal with all the aspects contained in the Service Provider Workshop Plan. A video of HIV/AIDS in the construction industry, which can be obtained from all Regional Offices of the Department of Public Works, is to be screened to Workers at

workshops. In order to enhance the learning experience, groups of not exceeding 25 people shall attend the interactive sessions of the workshops

4.2 **Recommended practice**

4.2.1 Workshop Schedule

Presenting information contained in the Service Provider Workshop Plan can be divided in as many workshop sessions as deemed practicable by the Contractor, provided that all Workers are exposed to all aspects of the workshops as outlined in the Service Provider Workshop Plan

Breaking down the content of information to be presented to Workers into more than one workshop session however, has the added advantage that messages are reinforced over time while providing opportunity between workshop sessions for Workers to reflect and test information. Workers will also have an opportunity to ask questions at a following session

4.2.2 Service Providers

A database of recommended Service Providers is available from all Regional Offices of the Department of Public Works

4.2.3 HIV/AIDS Specific Learning Outcomes and Assessment Criteria

Workers shall be exposed to workshops for a minimum duration of two-and-a-half hours. In order to set a minimum standard requirement, the following specific learning outcomes and assessment criteria shall be met

4.2.3.1 UNIT 1: The nature of HIV/AIDS

After studying and understanding this unit, the Worker will be able to differentiate between HIV and AIDS and comprehend whether or not it is curable. The Worker will also be able to explain how the HI virus operates once a person is infected and identify the symptoms associated with the progression of HIV/AIDS

Assessment Criteria:

1. Define and describe HIV and AIDS
2. List and describe the progression of HIV/AIDS

4.2.3.2 UNIT 2: Transmission of the HI virus

After studying and understanding this unit, the Worker will be able to identify bodily fluids that carry the HI virus. The Worker will be able to recognise how HIV/AIDS is transmitted and how it is not transmitted

Assessment Criteria:

1. Record in what bodily fluids the HI virus can be found
2. Describe how HIV/AIDS can be transmitted
3. Demonstrate the ability to distinguish between how HIV/AIDS is transmitted and misconceptions around transmittance of HIV/AIDS

4.2.3.3 UNIT 3: HIV/AIDS preventative measures

After studying and understanding this unit, the Worker will comprehend how to act in a way that would minimise the risk of HIV/AIDS infection and to use measures to prevent the HI virus from entering the bloodstream

Assessment Criteria:

1. Report on how to minimise the risk of HIV/AIDS infection
2. Report on precautions that can be taken to prevent HIV/AIDS infection

3. Explain or demonstrate how to use a male and female condom
4. List the factors that could jeopardize the safety of condoms provided against HIV/AIDS transmission

4.2.3.4 UNIT 4: Voluntary HIV/AIDS counselling and testing

After studying and understanding this unit, the Worker will be able to recognise methods of testing for HIV/AIDS infection. The Worker will be able to understand the purpose of voluntary HIV/AIDS testing and pre- and post-test counselling

Assessment Criteria:

1. Describe methods of testing for HIV/AIDS infection
2. Report on why voluntary testing is important
3. Report on why pre- and post-test counselling is important

4.2.3.5 UNIT 5: Living with HIV/AIDS

After studying and understanding this unit, the Worker will be able to recognise the importance of caring for people living with HIV/AIDS and be able to manage HIV/AIDS

Assessment Criteria:

1. List and describe ways to manage HIV/AIDS
2. Describe nutritional needs of people living with HIV/AIDS
3. Describe ways to embrace a healthy lifestyle as a person living with HIV/AIDS
4. Explain the need for counselling and support to people living with HIV/AIDS

4.2.3.6 UNIT 6: Treatment options for people with HIV/AIDS

After studying and understanding this unit, the Worker will be familiar with the various treatments available to HIV/AIDS infected or potentially HIV/AIDS infected people

Assessment Criteria:

1. Discuss anti-retroviral therapy
2. List methods of treatment to prevent HIV/AIDS transmission from mother-to-child
3. Describe the need for treatment of opportunistic diseases for people living with HIV/AIDS
4. Describe post exposure prophylactics

4.2.3.7 UNIT 7: The rights and responsibilities of Workers in the workplace with regard to HIV/AIDS

After studying and understanding this unit, the Worker will be able to identify the rights and responsibilities of the Worker living with HIV/AIDS in the workplace. The Worker will recognise the importance of accepting colleagues living with HIV/AIDS and treating them in a non-discriminative way

Assessment Criteria:

1. Discuss the rights of a person living with HIV/AIDS in the workplace
2. Discuss the responsibilities of a person living with HIV/AIDS in the workplace
3. Report on why acceptance and non-discrimination of colleagues living with HIV/AIDS is important

4.3 Displaying of plastic laminated posters and distribution of information booklets

The Contractor shall obtain a set of four laminated posters conveying different key messages and information booklets, which are available from all Regional Offices of the Department of

Public Works

The above-mentioned posters and information booklets have been prepared to raise awareness and to share information about HIV/AIDS and STI's

Posters or display stands shall be displayed on site as soon as possible, but not later than 14 days after the date of site handover

Posters shall be displayed in areas highly trafficked by Workers, including toilets, rest areas, the site office and compounds

The posters on display must always be intact, clear and readable

Information booklets must be distributed to all Workers as soon as possible, but not later than 14 days after site handover, or as soon as the Worker joins the site

5 PROVIDING WORKERS WITH ACCESS TO CONDOMS

The Contractor shall provide and maintain condom dispensers and make both male and female condoms, complying with the requirements of SABS ISO 4074, available at all times to all Workers at readily accessible points on site, for the duration of the contract. The Contractor may obtain condom dispensers from the Department of Health and condoms may be obtained from the Local Clinic or the Department of Health

At least one male and one female condom dispenser and a sufficient supply of condoms, all to the approval of the Representative/Agent, shall be made available on site within 14 days of site hand over. Contractors should note that arrangements to obtain condoms from the Department of Health Clinics prior to site hand over may be necessary, to ensure that condoms are available within 14 days of site handover

Condoms shall be made available in areas highly trafficked by Workers, including toilets, the site office and compounds

6 ENSURING ACCESS TO HIV/AIDS TESTING AND COUNSELLING FACILITIES AND TREATMENT OF SEXUALLY TRANSMITTED INFECTIONS (STI)

The Contractor shall provide Workers with the names of the closest Service Providers that provide HIV/AIDS testing and counselling and Clinics providing Sexually Transmitted Infection (STI) diagnosis and treatment. Information on these Service Providers and Clinics must be displayed on a poster of a size not smaller than A1 in an area highly trafficked by Workers

7 APPOINTMENT OF AN HIV/AIDS AWARENESS CHAMPION

Within 14 days of site handover the Contractor shall appoint an Awareness Champion from amongst the Workers, who speaks, reads and writes English, who speaks and understands all the local languages spoken by the Workers and who shall be on site during all stages of the construction period. The Contractor shall ensure that the Awareness Champion has been trained by the Service Provider on basic HIV/AIDS information, the support services available and the necessary skills to handle questions regarding the HIV/AIDS programme in a sensitive and confidential manner

The Awareness Champion shall be responsible for:

- 7.1 Liasing with the Service Provider on organising awareness workshops;
- 7.2 Filling condom dispensers and monitoring condom distribution;
- 7.3 Handing out information booklets;
- 7.4 Placing and maintaining posters

8 **MONITORING**

The Contractor shall grant to the Representative/Agent reasonable access to the construction site, in order to establish that the Contractor complies with his obligations regarding HIV/AIDS awareness under this contract

The Contractor must report problems experienced in implementing the HIV/AIDS requirements to the Representative/Agent

The attached SITE CHECKLIST (SCHEDULE A) shall be completed and submitted at every construction progress inspection to the Representative/Agent

The attached SERVICE PROVIDER REPORT (SCHEDULE B) shall be completed and submitted on a monthly basis to the Department's Project Manager, through the Representative/Agent

The attached CONTRACTOR HIV/AIDS PROGRAMME REPORT (SCHEDULE C), a close out programme report, shall be completed by the Contractor at the end of the contract

SCHEDULE A

HIV/AIDS PROGRAMME : SITE CHECKLIST

When did construction commence _____

Name of Departmental Project Manager _____

Please refer to HIV/AIDS Programme activities during the reporting period

<i>Tick the block if Contractor satisfactorily complied with specifications</i>																												
DATE	PI				PI				PI				PI				PI				PI							
	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M
Programme implemented within 14 days of site handover																												
Awareness champion on site																												
HIV/AIDS awareness service provider report																												
Male condom dispenser																												
Sufficient male condoms available																												
Male condom dispenser in a highly trafficked area																												
Female condom dispenser																												
Sufficient female condoms available																												
Female condom dispenser in a highly trafficked area																												
All four types of posters displayed																												
Posters in a good condition																												
Posters in a highly trafficked area																												
Posters displayed on local support services: clinic & VCT centre																												
Support service poster/s in highly trafficked area																												
Support service poster/s in a good condition																												

<i>Please indicate the applicable number for the reporting period</i>							
Workers on payroll (at PI)							
Sub-Contractors who will be on site for longer than 30 days (at PI)							
Workshop attendees							
Number of workshops held							
Scheduled workshops according to approved workshop plan							
Booklets distributed							
Male condoms distributed							
Female condoms distributed							

Representative/Agent							

Contractor							

Date of progress inspection (dd/mm/yy) _____

Reporting period: (dd/mm/yy)_____ to (dd/mm/yy) _____

Deviations from HIV/AIDS awareness programme plan:

Corrective actions

Representative/Agent

Departmental Project Manager

Date

Date

SCHEDULE B

HIV/AIDS AWARENESS PROGRAMME: SERVICE PROVIDER REPORT

Reporting period: (dd/mm/yy)_____ to (dd/mm/yy) _____

Number of workshops conducted in reporting period _____

Number of scheduled workshops according to approved workshop plan _____

Deviations from workshop plan:

State reasons for deviating from workshop plan:

Corrective actions:

Service Provider

Contractor

Date

Date

HIV/AIDS AWARENESS PROGRAMME : WORKSHOP CONTENT ADDRESSED

<i>Fill in the applicable information with regard to each workshop conducted</i>																												
DATE	W/S				W/S				W/S				W/S				W/S				W/S							
	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M	D	D	M	M
Content of workshop: <i>(Mark the content included)</i>																												
SLO1																												
SLO2																												
SLO3																												
SLO4																												
SLO5																												
SLO6																												
SLO7																												
HIV/AIDS in construction video																												
Indicate the duration of the workshop in hours																												
Total number of Workers																												
Indicate workshop venue																												

SCHEDULE C

CONTRACTOR HIV/AIDS PROGRAMME REPORT

Project name _____

Project Location _____

Contract value of project (R) _____

Department of Public Works Project Manager _____

HIV/AIDS Programme duration: (dd/mm/yy) _____ to (dd/mm/yy) _____

AWARENESS MATERIAL

Describe location of posters displayed during the programme _____

Comments on posters _____

Indicate total number of booklets distributed _____

Comments on booklets _____

CONDOMS

Indicate total number of male condoms distributed _____

Indicate total number of female condoms distributed _____

Describe where male condom dispenser was placed _____

Describe where female condom dispenser was placed _____

HIV/AIDS WORKSHOPS

Indicate the total number of HIV/AIDS workshops conducted _____

Indicate the duration of workshops _____

Indicate the total number of Workers that participated in the HIV/AIDS workshops _____

Indicate the total number of Workers that were exposed to the video on HIV/AIDS in the Construction Industry

Comments on HIV/AIDS workshops on site _____

GENERAL

Briefly describe programme activities and satisfaction with outcome _____

Additional comments, suggestions or needs with regard to the HIV/AIDS awareness programmes on site

Please indicate if your company has a formal HIV/AIDS policy focussing on HIV/AIDS awareness raising and care and support of HIV/AIDS Workers

Yes	No	Currently developing one
-----	----	--------------------------

Please indicate if, to your knowledge, you have lost any workers during the duration of the project to HIV/AIDS related sicknesses. One or more of the following might indicate an HIV/AIDS related death:

Excessive weight loss
 Reactive TB
 Hair loss
 Severe tiredness

Coughing or chest pain
 Pain when swallowing
 Persistent fever
 Diarrhoea

Vomiting
 Meningitis
 Memory loss
 Pneumonia

Number of HIV/AIDS-related deaths _____

Contractor

Date

Departmental Project Manager

Date

C3.3

OCCUPATIONAL HEALTH AND SAFETY



RedApple

Consulting

HEALTH AND SAFETY SPECIFICATION.

Principle Contractor:	(To be appointed)
Project Name:	Construction of Standerton Labour Centre
Compiled by	Tumisang Keokame (OHS Consultant)

INTRODUCTION

Every employee has the right to a safe and healthy working environment and the right to return home from work without injury. The construction industry poses a high risk to every employee's health and safety due to the potentially dangerous operations being undertaken. As a company we have both a legal and moral obligation to protect.

The health and safety of our employees and employ more environmental friendly work methodologies. It is in this light that **the Contractor** Needs to develop a Safety, Health and Environmental Plan that provides guidance on the health and safety of our employees on every project as well as other people who may be affected by our activities., **the Contractor** needs to take full cognizance and draw guidance from the Occupational Health and Safety Act 85 of 1993 and its Regulations as well as the on-going updates and ensure that our daily activities evolve around them. The SHE program is documented in our site specific safety file and addresses the following components: -

1. PUBLIC HEALTH AND SAFETY
2. CONSTRUCTION PLANT
3. DEMOLITION
4. EXCAVATION
5. STACKING OF MATERIALS AND HOUSE KEEPING
6. ELECTRICAL AND MECHANICAL LOCKOUT
7. FIRE PREVENTION AND PROTECTION
8. FIRST AID
9. WORKING IN CONFINED SPACES
10. WORKING IN WATER ENVIROMENTS
11. SCAFFOLDING
12. FALL PROTECTION PLAN
13. POLICIES (HIV/AIDS POLICY, TB POLICY AND PPE POLICY)

1. PUBLIC HEALTH AND SAFETY MANAGEMENT SYSTEM

Health and safety philosophy

The Contractor is required to practice sound Safety, Health and Environmental principles in all aspects of its business.

- All Management members and employees accountable for Safety Health and Environmental within the scope of their responsibilities.
- Management will provide and maintain a working environment that is free from any risk to the Safety and Health of its employees or any person who is not an employee but who may be affected by the activities performed by the project team. Management will further ensure that the environmental aspects are managed in such a manner that it does not pose any adverse effect to the environment, any person or community.
- Comply with all applicable legislation in terms of Safety, Health and Environment management systems and performance.
- Strive to achieve zero tolerance on disabling injuries to all our employees.
- Adopt safe work practices and ensure that proper job instruction / training is provided to our employees for all construction work to be executed.
- Run our business in such a manner that it does not pose a risk to the health and safety of other persons who are not our employees.
- This policy will be reviewed on an annual basis in line with our philosophy of continuous improvement

The Client is required to ensure a working environment which, as far as reasonably practicable, is safe and without risk to the health of persons on the site.

1.1. Contractor health and safety management system

The principal contractor will ensure and demonstrate to the Client that he, and all contractors to be appointed on this construction project, has adequately allowed for the cost of health and safety measures which may be required during the construction work.

1.2. Appointment of Client's Health and Safety Adviser

The Client will appoint a Health and Safety Adviser who will visit the site regularly to monitor and audit the execution of the contractors' Health and Safety Plans on behalf of the Client, without thereby limiting the contractors' own responsibility for health and safety, or attracting any vicarious responsibility or liability for the contractors' acts or omissions.

1.3 Occupational Health and Safety Act Section 37(2) agreements

The principal contractor as well as all contractors must sign the Client's Section 37(2) agreement before commencement of their particular work.

2. PLANT AND MACHINERY

2.1 Construction Plant

- All plant shall comply with the OHS Act requirements in relation to operation and maintenance thereof.
- Service and maintenance of the vehicles shall be of a high standard at all times.
- All plant shall subject to design be fitted with back-up alarms and audible indicating devices.
- **The Contractor** shall ensure that all construction plants moving parts are adequately protected.
- Pre-start inspections shall be conducted on all motorized equipment daily, deviations of such inspections shall be recorded.
- Construction plant identified for use shall be operated by a trained and authorized operator.
- All construction plant shall be operated under the direct supervision of a person competent to identify potential hazards in the work he is conducting.
- Work involving the use of construction plant shall be conducted in accordance with an approved Risk Assessment.
- The Site Agent shall ensure all operators are equipped with the necessary PPE namely; safety shoes, overall, safety glasses, and gloves.

- Plant shall be fitted with an extinguisher where practicable.
- Washing shall be conducted in the designated washing areas.

The Contractor shall ensure the all equipment moving to and from site is adequately secured, and that all contractors abide by this requirement.

3. DEMOLITION

The Contractor must—with regard to a structure being demolished, take steps to ensure that—no floor, roof or other part of the structure is overloaded with debris or material in a manner which would render it unsafe; all reasonably practicable precautions are taken to avoid the danger of the structure collapsing when any part of the framing of a framed or partly framed building is removed, or when reinforced concrete is cut; and precautions are taken in the form of adequate shoring or other means that may be necessary to prevent the accidental collapse of any part of the structure or adjoining structure; ensure that no person works under overhanging material or a structure which has not been adequately supported, shored or braced; ensure that any support, shoring or bracing contemplated in paragraph, is designed and constructed so that it is strong enough to support the overhanging material; where the stability of an adjoining building, structure or road is likely to be affected by demolition work on a structure, take steps to ensure the stability of such structure or road and the safety of persons; ascertain as far as is reasonably practicable the location and nature of electricity, water, gas or other similar services which may in any way be affected by the work to be performed, and must before the commencement of demolition work that may affect any such service, take the steps that are necessary to render circumstances safe for all persons involved; cause every stairwell used and every floor where work is being performed in a building being demolished, to be adequately illuminated by either natural or artificial means; cause convenient and safe means of access to be provided to every part of the demolition site in which persons are required to work; and erect a catch platform or net above an entrance or passageway or above a place where persons work or pass under, or fence off the danger area if work is being performed above such entrance, passageway, or place so as to ensure that all persons are kept safe where there is a danger or possibility of persons being struck by falling objects, ensuring that no material is dropped to any point, which falls outside the exterior

walls of the structure, unless the area is effectively protected. No person may dispose of waste and debris from a high place by a chute unless the chute is adequately constructed and rigidly fastened; if inclined at an angle of more than 45 degrees to the horizontal, is enclosed on its four sides; if of the open type, is inclined at an angle of less than 45 degrees to the horizontal; where necessary, is fitted with a gate at the bottom end to control the flow of material; and discharges into a container or an enclosed area surrounded by barriers. **The Contractor** must also ensure that every chute used to dispose of rubble is designed in such a manner that rubble does not free-fall and that the chute is strong enough to withstand the force of the debris travelling along the chute. **The Contractor** must ensure that no equipment is used on floors or working surfaces, unless such floors or surfaces are of sufficient strength to support the imposed loads.

Where the demolition work involves the use of explosives, a method statement must be developed in accordance with the applicable explosives legislation, by an appointed person who is competent in the use of explosives for demolition work and all persons involved in the demolition works must adhere to demolition procedures issued by the appointed person. **The Contractor** must ensure that all waste and debris are as soon as reasonably practicable removed and disposed of from the site in accordance with the applicable legislation.

4. EXCAVATION

The Contractor must ensure that all excavation work is carried out under the supervision of a competent person who has been appointed in writing for that purpose; and evaluate, as far as is reasonably practicable, the stability of the ground before excavation work begins. **The Contractor** must also take reasonable and sufficient steps in order to prevent, as far as is reasonably practicable, any person from being buried or trapped by a fall or dislodgement of material in an excavation may not require or permit any person to work in an excavation which has not been adequately shored or braced: Provided that shoring and bracing may not be necessary where the sides of the excavation are sloped to at least the maximum angle of repose measured relative to the horizontal plane; or such an excavation is in stable material: Provided that permission has been given in writing by the appointed competent person.

Where any uncertainty pertaining to the stability of the soil still exists, the decision from a professional engineer or a professional technologist competent in excavations is decisive and such a decision must be noted in writing and signed by both the competent person. The professional engineer or technologist, as the case may be will then take steps to ensure that the shoring or bracing contemplated is designed and constructed in a manner that renders it strong enough to support the sides of the excavation in question; and to ensure that no load, material, plant or equipment is placed or moved near the edge of any excavation where it may cause its collapse and consequently endangers the safety of any person, unless precautions such as the provision of sufficient and suitable shoring or bracing are taken to prevent the sides from collapsing; must ensure that where the stability of an adjoining building, structure or road is likely to be affected by the making of an excavation, steps are taken to ensure the stability of such building, structure or road and the safety of persons; must cause convenient and safe means of access to be provided to every excavation in which persons are required to work, and such access may not be further than six meters from the point where any worker within the excavation is working; (g) must ascertain, as far as is reasonably practicable, the location and nature of electricity, water, gas or other similar services which may in any way be affected by the work to be performed, and must before the commencement of excavation work that may affect any such service, take the steps that are necessary to render the circumstances safe for all persons involved; must ensure that every excavation, including all bracing and shoring, is inspected daily, prior to the commencement of each shift. In order to ensure the safety of the excavation and of persons, and those results must be recorded in a register kept on site and made available on request to an inspector, the client, the client's agent, any other contractor or any employee; must cause every excavation which is accessible to the public or which is adjacent to public roads or thoroughfares, or whereby the safety of persons may be endangered, to be adequately protected by a barrier or fence of at least one meter in height and as close to the excavation as is practicable; and provided with warning illuminants or any other clearly visible boundary indicators at night or when visibility is poor, or have resort to any other suitable and sufficient precautionary measures.

5 STACKING OF MATERIALS AND HOUSEKEEPING

The Contractor must ensure that suitable housekeeping is continuously implemented on each construction site, including the proper storage of materials and equipment; the removal of scrap, waste and debris at appropriate intervals; ensuring that materials required for use, are not placed on the site so as to obstruct means of access to and egress from workplaces and passageways; ensuring that materials which are no longer required for use, do not accumulate on and are removed from the site at appropriate intervals; ensuring that waste and debris are not disposed of from a high place with a chute, unless the chute complies with the requirements set out in the regulation ensuring that construction sites in built-up areas adjacent to a public way are suitably and sufficiently fenced off and provided with controlled access points to prevent the entry of unauthorized persons; and ensuring that a catch platform or net is erected above an entrance or passageway or above a place where persons work or pass under, or fencing off the danger area if work is being performed above such entrance, passageway, or place so as to ensure that all persons are kept safe in the case of danger or possibility of persons being struck by falling objects. Site Agent shall ensure that all stacking will be supervised by a person competent to supervise over the activities, and that clearly defined and allocated storage areas are provided for and identified, and that materials being stored within this area are stacked in accordance with sound stacking principles of sort-by-sort, access to be maintained, level surface, and the height will not exceed three times the base width.

Housekeeping shall be maintained in accordance with the client requirements at all times.

6 ELECTRICAL LOCKOUT.

The Contractor shall be responsible for the safety, safe use and maintenance of the electrical installation and also shall be responsible for the safety of the conductors in the premises connecting the electrical installation to the point of supply in the case where the point of supply is not the point of control.

Design and construction No person may authorize, design, install or permit or require the installation of an electrical installation, other than in accordance with a health and safety standard incorporated into these Regulations under section 44 of the Act. (2) No person may use components within an electrical installation unless those components comply with the standards referred to in the relevant incorporated standard, and proof of compliance shall be identifiable on the components or certification shall be available from the manufacturer or supplier of the materials or components in terms of the National Regulator for Compulsory Specifications Act, 2008 (Act NO.5 of 2008).

Electrical contractor No person may do electrical installation work as an electrical contractor unless that person has been registered as an electrical contractor in terms of these Regulations.

- Any person who does electrical installation work as an electrical contractor shall register annually in the form of Annexure 3 with the chief inspector or a person appointed by the chief inspector.
- An application for registration shall be accompanied by the fee prescribed by regulation 14.
- The chief inspector or a person appointed by the chief inspector shall register any person as an electrical contractor and enter such registration into the national database: Provided that such person

7 USE AND TEMPORARY STORAGE OF FLAMMABLE LIQUIDS

The Contractor must, in addition to compliance with the provisions for the use and storage of flammable liquids in the *General Safety Regulations, 2003*, ensure that where flammable liquids are being used, applied or stored at the workplace concerned, it is done in a manner that does not cause a fire or explosion hazard, and that the workplace is effectively ventilated no person smokes in any place in which flammable liquid is used or stored, and the contractor must affix a suitable and conspicuous notice at all entrances to any such areas prohibiting such smoking and an adequate amount of efficient fire-fighting equipment is installed in suitable locations around the flammable liquids store with the recognized symbolic signs; only the quantity of flammable liquid needed for work on one day is taken out of the store for use; all containers holding flammable liquids are kept tightly closed when not in actual use and, after their contents have been used up, are removed from the construction site and safely disposed of; where flammable liquids are decanted, the metal containers are bonded and earthed; and no flammable material, including cotton waste, paper, cleaning rags or similar material is stored together with flammable liquids.

8. FIRE PREVENTION AND PROTECTION

The Contractor must, in addition to compliance with the *Environmental Regulations for Workplaces, 1987*, ensure that -

- (a) All appropriate measures are taken to avoid the risk of fire;
- (b) Sufficient and suitable storage is provided for flammable liquids, solids and gases;

(c) Smoking is prohibited and notices in this regard are prominently displayed in all places containing readily combustible or flammable materials;

(d) In confined spaces and other places in which flammable gases, vapors or dust can cause danger -

(i) Only suitably protected electrical installations and equipment, including portable lights, are used;

(ii) There are no flames or similar means of ignition;

(iii) There are conspicuous notices prohibiting smoking;

(iv) Oily rags, waste and other substances liable to ignite are without delay removed to a safe place;
and

(v) Adequate ventilation is provided;

(e) Combustible materials do not accumulate on the construction site;

(f) Welding, flame cutting and other hot work are done only after appropriate precautions have been taken to reduce the risk of fire;

(g) Suitable and sufficient fire-extinguishing equipment is placed at strategic locations or as may be recommended by the Fire Chief or local authority concerned, and that such equipment is maintained in a good working order;

(h) The fire equipment is inspected by a competent person, who has been appointed in writing for that purpose, in the manner indicated by the manufacturer thereof;

(i) A sufficient number of workers are trained in the use of fire-extinguishing equipment;

(j) Where appropriate, suitable visual signs are provided to clearly indicate the escape routes in the case of a fire;

(k) The means of escape is kept clear at all times;

(l) There is an effective evacuation plan providing for all -

(i) Persons to be evacuated speedily without panic;

(ii) Persons to be accounted for; and

(iii) Plant and processes to be shut down; and

(m) A siren is installed and sounded in the event of a fire.

9. First Aid

The Contractor shall take all reasonable steps that are necessary under the circumstances, to ensure that persons at work receive prompt first aid treatment in case of injury or emergency.'

Where more than 10 employees are employed at a workplace, the employer needs to appoint a first aider. This is a compulsory legal appointment and the first aider should be readily available during normal working hours.

Ratio of first aiders

Shops and offices - one first aider for every 100 employees. Other workplaces - one first aider for every 50 employees.

Competency of the first aider

The first aider should be in possession of a valid first aid certificate, issued by a person or organization approved by the chief inspector for this purpose.

Where pesticides, hazardous chemical substances or hazardous biological agents are used, handled, processed or manufactured the first aid worker should be trained in the first aid procedures that are necessary for the treatment of injuries that may result from such activities.

In the case of injuries or wounds

Employees duty - an employee suffering from an open wound, cut, sore or any similar injury, who works where hazardous chemical substances or hazardous biological agents is used, handled, processed or manufactured, shall report such injury to his employer as soon as possible.

The employer's duty - the employer may not permit such person to continue working before the injury has been cleaned with soap and water or with a diluted disinfectant and suitable dressing to eliminate blood or bodily fluids seepage through the dressing, where necessary.

Emergency equipment

Eye-wash fountain and similar facilities - where an employee is exposed or may be exposed to a potential hazard of injury to the eye through contact with a hazardous biological agent or hazardous chemical substance, the employer shall make sure that there is an eye-wash fountain, or any similar facilities, in the immediate vicinity of the workplace of such employee and that the employee is trained in the use thereof.

Deluge showers - where an employee is exposed to a potential hazard of injury to or absorption through the skin as a result of sudden contact with a large amount of hazardous chemical substances or hazardous biological agents, the employer shall make sure that there is a fast-reacting deluge shower with clean water, or similar facility in the immediate vicinity of the workplace of such employee and that the employee is trained to use such facility in the use thereof.

When should first aid boxes be provided?

The regulation states that first aid facilities must be provided ''Where more than five employees are employed at a workplace''

Placement of the first aid boxes

''The employer must provide a first aid box or boxes at or near the workplace, available and accessible for the treatment of injured persons at that workplace.''

How many first aid boxes should be provided?

The number of boxes required should be determined by the employer, taking the following into account:

The type of injuries that are likely to occur at a workplace, · the nature of the activities performed and · the number of employees employed at such workplace

Signage

An employer shall post a prominent notice or sign in a conspicuous place at a workplace, indicating where the first aid box or boxes are kept as well as the name of the person in charge of such first aid box or boxes.

What content should the first aid box contain?

Suitable first aid equipment, as listed in the prescribed Annexure.

Annexure

Minimum contents of a First Aid Box

In the case of shops and offices, the quantities stated under items 1, 8, 9, 10, 14, 15, 17, and 18 may be reduced by half.

Item 1	Wound cleaner / antiseptic (100ml)
Item 2	Swabs for cleaning wounds
Item 3	Cotton wool for padding (100g)
Item 4	Sterile gauze (minimum quantity 10)
Item 5	1 pair of forceps (for splinters)
Item 6	1 pair of scissors (minimum size 100mm)
Item 7	1 set of safety pins
Item 8	4 triangular bandages
Item 9	4 roller bandages (75mm x 5m)
Item 10	4 roller bandages (100mm x 5m)

Item 11	1 roll of elastic adhesive (25mm x 3m)
Item 12	1 Non-allergenic adhesive strip (25mm x 3m)
Item 13	1 Packet of adhesive dressing strips (minimum quantity 10 assorted sizes)
Item 14	4 First aid dressings (75mm x 100mm)
Item 15	4 First aid dressings (150mm x 200mm)
Item 16	2 Straight splints
Item 17	2 Pairs large and 2 pairs medium disposable latex gloves
Item 18	2 CPR mouth pieces or similar devices
Item 19	An adequate supply of absorbent material for the absorption of blood and other body fluids spilled
Item 20	Disinfectant to disinfect the area after cleaning up blood and other body fluids spilled.
Item 21	2 Pairs large and 2 pairs medium disposable rubber household gloves.
Item 22	A suitable sized impervious bag for the safe disposal of blood and other body fluid contaminated biohazard materials

Spillage kit

Please note that a spillage kit had been added to the content of the first aid box. (See items 19 to 22 of the under mentioned Annexure)

May the employer keep any other articles or substances like painkillers in the first aid box?

Regulation 7 states that the employer must ensure that only articles and equipment as mentioned above or other similar equipment or medicine is kept in the first aid box or boxes. According to the Medicines and Related Substances Control Act 101 of 1965, no person is allowed to dispense a

medicine (ie: headache tablets, cough mixture, any other oral medicine) unless authorized to do so under the Pharmacy Act.

10. WORKING IN CONFINED SPACES.

10.1 Occupational Health and Safety Act (1993) requires **The Contractor** to take responsibility to ensure that the specific space is safe to work in. In order to successfully manage confined space safety, employers and employees need to comply with the three basic requirements prescribed in section 8 of the Occupational Health and Safety Act. Management needs to ensure that the specific hazard in the confined space is risk assessed effectively and should then provide the systems that will ensure a safe workplace. If executed correctly, employees working in the confined space need to follow orders of management.

Where the provisions cannot be complied with the employer or user of machinery, as the case may be, shall take steps to ensure that any confined space in which there exists or is likely to exist a hazardous gas, vapor, dust or fumes, or which has or is likely to have, an oxygen content of less than 20 per cent by volume, is entered by an employee or other person only when--

The confined space is purged and ventilated to provide a safe atmosphere therein and measures necessary to maintain a safe atmosphere therein have been taken; and

the confined space has been isolated from all pipes, ducts and other communicating openings by means of effective blanking other than the shutting or locking of a valve or a cock, or, if this is not practicable, only when all valves and cocks which are a potential source of danger have been locked and securely fastened by means of chains and padlocks.

•Where the provisions of subregulation² cannot be complied with, the employer or user of machinery shall take steps to ensure that the confined space in question is entered only when the employee or person entering is using breathing apparatus of a type approved by the chief inspector and, further, that--

(a) the provisions of are complied with;

(b) any employee or person entering the confined space is using a safety harness or other similar equipment, to which a rope is securely attached which reaches beyond the access to the confined space, and the free end of which is attended to by a person referred to in paragraph (c);

(c) at least one other person trained in resuscitation is and remains in attendance immediately outside the entrance of the confined space in order to assist or remove any or persons from the confined space, if necessary; and

(d) Effective apparatus for breathing and resuscitation of a type approved by the chief inspector is available immediately outside the confined space.

•An employer or user of machinery shall take steps to ensure that all persons vacate a confined space on completion of any work therein.

•Where the hazardous gas, vapor, dust or fumes are of an explosive or flammable nature, an employer or user of machinery shall further take steps to ensure that such a confined space is entered only if --

(a) the concentration of the gas, vapor, dust or fumes does not exceed 25 per cent of the lower explosive limit of the gas, vapor, dust or fumes concerned where the work to be performed is of such a nature that it does not create a source of ignition; or

(b) such concentration does not exceed 10 per cent of the lower explosive limit of the gas, vapor, dust or fumes where other work is performed.

The provisions of this regulation shall mutatis mutandis also apply, in so far as they can be so applied, to any work which is performed in any place or space on the outside of and bordering on or in the immediate vicinity of, any confined space, and in which place or space, owing to its proximity to the confined space, any hazardous article, oxygen-deficient atmosphere or dangerous concentration of gas, vapor, dust or fumes may occur or be present.

11. WORKING IN WATER ENVIROMENTS

The Contractor will ensure that workers will not be exposed to conditions of heat where the temperature is above 40° Celsius and the humidity more than 75%. Likewise, will personnel not be exposed to temperatures lower than -5° Celsius 27. All workers shall have access to a shaded eating and resting place on site. 28. Workers executing tasks in rivers, trenches and other natural or artificial water ways shall be made aware of the hazard of flash floods and special precautions shall be made by the P C to implement an effective flood warning system. 29. Personnel executing work during rainy weather or under other wet conditions shall be equipped with proper gumboots and proper rain suits. 30. No personnel will be allowed to work in water unless gumboots are worn. Should the water be deeper than 300mm watertight suits shall be worn

12. SCAFFOLDING

The Contractor Will ensure that (scaffolding) when used complies with the safety standards incorporated for this purpose into Regulations under section 44 of the Heal and Safety act.

SCAFFOLDING

Scaffoldings are non-permanent structures erected to afford access to positions that cannot be reached from ground level. Scaffolding must be erected by certified scaffolding contractor and handed over in the correct manner to the responsible line supervisor overseeing the work to be performed on the said structure with its hand over certificate.

The responsible site supervisor shall then ensure before authorizing work on the scaffold that all scaffolding has been erected according to standards. Attention must be paid to the following points: Green tag status and orange status should be modified for whatever purpose, periodical 7 days inspection validity under normal conditions and inspections after inclement weather (heavy rains and or strong winds). The supervisor shall inspect the scaffold daily at the start of each shift and whenever alterations are made the appointed scaffolding inspector of the relevant scaffolding contractor shall inspect the total structure as if newly erected.

No employee shall be permitted to work on an unsafe scaffold. All persons accessing and working on scaffold shall use a full body harness with a double lanyard. 100% tie down principle shall be complied with at all times when work is performed from scaffold modified to fit in structures or steel items. Any modifications to scaffolding will only be carried out by a competent scaffolding contractor and the scaffold will be re-erected safe for use after such modification. **Sanapo Project Development's** employees are not permitted in any case to make alterations to scaffolding or to work simultaneously on scaffolding during modifications.

13. FALL PROTECTION PLAN

PURPOSE

The Fall Protection Plan is prepared in terms of the Occupational Health and Safety Act 85 of 1993 with specific reference to the requirements as prescribed in the Construction Regulation 10 and outlines the standard requirements of wearing, using and inspecting fall arrest and fall prevention equipment: (safety harness, lanyards, static lines and lifelines) commonly used during execution of elevated work.

OBJECTIVES AND TARGETS

To identify, evaluate and mitigate all risks and hazards associated with activities performed at elevated positions which include scaffolding structures, roof work, and use of ladders, cherry pickers etc. Our target is to achieve a zero incident rate for all work performed at elevated positions.

SCOPE

This procedure applies to **The Contractor's** employees

REFERENCES

OHSACT CR (10)

DEFINITIONS

- Anchorage Point - A secure point of attachment for lifelines, lanyards or declaration devices capable of supporting 2250 kilograms.
-
- Full body Harness - A device with straps which may be secured around an employee in a manner that will distribute the fall arrest forces over at least the thighs, pelvis, waist chest and shoulders with means for attaching it to other components of a personal fall arrest system.
- Lanyard - A flexible line of rope or strap, which has a connector at each end for connecting the body harness to a declaration device, lifelines, or anchorage point.
- Lifeline - a flexible line for connection to an anchorage point at one end to hang vertically (vertical lifeline), and which serves as a means for connecting other components of a personal fall arrest system to the anchorage.
- Personal Fall Arrest System - A system used to arrest an employee in a fall from a working level. It consists of an anchorage point, connectors, a body harness, lanyard, declaration device, lifelines, or proper combination of these.

LEGAL AND OTHER REQUIREMENTS

The Construction Regulations requires the following:

1. The Contractor shall cause:

(a) The designation of a competent person, responsible for the preparation of a fall protection plan.

(b) The fall protection plan contemplated in (a) to be implemented, amended and when necessary and maintained as required.

(c) Steps to be taken in order to ensure the continued adherence to the fall protection plan.

2. The fall protection plan contemplated in sub regulation (1) shall include -

(a) A risk assessment of all work carried out from an elevated position which shall include the procedure and methods used to address all the risks identified per location

RESPONSIBILITIES

3 Construction Manager

To ensure that all elevated work is done in a safe manner.

3.1.1 Construction Supervisor

To ensure that all persons working under their supervision comply with the requirements of this standard.

3.1.2 Employees

To ensure compliance to the requirements of this standard.

Fall protection Plan Developer

To ensure that the fall protection plan is developed, implemented, amended and where and when necessary and maintained.

METHOD

Systematic approach to fall hazard management

The Site Manager and all subcontractors must take a three - step systematic approach to protecting employees from falls.

Fall Elimination

The first step in this approach is to assess the workplace and the work itself in the earliest design stages of the project and during planning stages of all work. The objective is to eliminate all fall hazards. This assessment of the project and the work does not only help eliminate hazards, but also identifies alternative approaches to the work that can measurably enhance productivity with less exposure to fall hazards.

Fall Prevention

The second step in continuous fall protection also requires assessing the workplace and work processes. If fall hazards cannot be completely eliminated during the first step, management must take a proactive approach to the prevention of fall by applying further safety strategies at the work place. Early installation of stairs, guardrails barriers, and travel restrictions systems will be necessary to ensure a safe work environment.

Fall Arresting

The third step is the final mechanism of defense against falls, is to use fall arresting equipment. Fall arresting equipment, however, after determining that potential fall cannot be eliminated by changing work procedures or the workplace. Equipment such as harnesses, lanyards, shock absorbers, fall arresters, lifelines, anchorages, and safety nets can reduce the risk of injury if a fall occurs. The workplace and work processes must be carefully assessed so that the most appropriate equipment can be installed and correctly used. This will also include the use of a detailed procedure during the rescuing of a person in a fall arrest position.

DESIGN AND INSTALLATION OF FACILITIES

Fall protection plan must cater for fall hazard management in all designs by considering the following aspects:

- Providing equipment that will allow facilities to be operated from grade level or an approved platform or maintenance access.
- Using methods of construction, which allows equipment to be installed while on the ground to eliminate working at elevated positions (it will be important to install fall prevention devices such as rails)
- In cases where elevation work is necessary, installing fall prevention devices such as rails on the work while on the ground to eliminate the risk of falling.
- Specifying and insisting that fabricators supply permanent stairs and guardrails before steel is erected. In this way, the stairs and steel can be erected simultaneously, improving not only safety, but also efficiency. Employees will have safe access and egress, and the necessity of climbing temporary ladders will be reduced or eliminated. If fall hazard eliminated or prevention is not available, identify or install engineered

anchor points to facilitate the use of fall arresting equipment during construction and future maintenance of facility.

TRAINING AND COMPETENCY

All personnel performing working at elevated positions shall meet the following requirements:

- Must be trained in the use, inspection, and maintenance of fall arrest systems;
- Must show competency during initial stages of training;
- Must undergo refresher training as required by changes in the workplace and / or equipment;
- Training will be done in the form of Fall Protection Plan, Safe Work Procedure and Risk Assessments.

1 Physical and Medical Fitness

- All **Contractor's** employees required to work on elevated positions shall be medically examined by an accredited Occupational Health and Safety institution to determine their fitness levels in relation to executing construction work at heights. During the medical surveillance testing the employee will also complete a questionnaire asking if the employee suffers from any fear of heights. Employees must be found to be medically and psychologically fit to perform work at elevated areas and must not suffer from any of the following conditions: fear of heights, hypertension, claustrophobia, low blood pressure (epilepsy), and or high blood pressure. Records of employee's fitness levels will be kept by responsible line management for the sole purpose of record keeping and informed decision making for appropriate work allocation.
- Employees who are under medication that renders dizzy or drowsy must report to their Supervisor and will not be permitted to work on heights.
- Medical cards of employees will be verified to identify any medical restrictions to work at elevated positions

2 Inclement weather

- No work will be performed from elevated positions such as roofs and open structures wherein employees will be exposed to rainfall, thunderstorm, strong wind speeds, wet steel (scaffolding or structural) and misty conditions.

BASIC FALL PROTECTION REQUIREMENTS

The Basic fall protection requirements

- Workers must be protected from fall hazards when they are unguarded surfaces at any heights above hazardous equipment.

Workers performing duties on a skeleton steel building or structure must be protected by a fall arrest system connected to a securely anchored lanyard when the fall distance is greater than 2 meters. (Each anchor must be able to support at

- least 1500 kg per attached worker). If personal fall arrest systems are not practical, safety nets should be used.

Full body harness

Engineered contractor and all contractors / subcontractors will provide full-body harnesses with double lanyard meeting SABS standards. Safety belts are not allowed.

Standard full - body harnesses are not designed for a combined personnel and tool weight in excess of 137kg. Personnel weighing more than 137kg, with tools, must consult the Project / Site Co-Ordinator prior to using fall arresting equipment.

Horizontal and vertical lifelines

Horizontal lifelines must be installed and used according to manufacturer's specification.

The following guidelines should also be followed.

- Softeners must be used where lifelines contact sharp edges, such as beam flanges.
- Temporary lifelines must be removed at the completion of a job.
- Anchor points, connectors, and other system components must be capable of safety supporting one person falling 1.8m.
- A vertical lifeline shall be used by only one person at a time.

- All lifelines will be installed by a competent and approved person, with a valid certificate and display tag specifying the maximum persons allowed to use the lifeline and maximum safe work load.

NOTE! Horizontal and vertical lifelines must be inspected and maintained by a competent person on a daily basis

- Webbing must be carefully checked at attachment points to buckles and "D" rings.
- The shock-absorbing section of the lanyard must be checked for ripped stitches.
- The harness / lanyard must be checked for broken / frayed strands.

These items must be checked for the following

- Rough, sharp edges;
- Corrosion;
- Dents or distortion; and
- Freely moving parts

NOTE! Also ensure that the clasp on the rope lock or cable on the retract lock stops with a quick pull.

Snap Hooks (Gate Locking Keepers / Gate Keeper Spring / Connectors)

These items must be checked for the following:

- Snap hook must be locking and move freely.
- Snap hooks must be checked for grabs in closure, sharp edges, burn, distortion, cracks, corroded surfaces, and pitted surfaces.

Labels

Each harness and lanyard must have that displays the manufacturing date. If the date is more than five year from current date, it must be re-inspected and a new tag affixed.

- Prior to each use, a visual inspection of the full-body harness, lifeline and lanyard shall be made by the employee who will be wearing and using the equipment. Once a month, a visual inspection shall be made by a competent person who will inspect the following:
 - Stitching

- Buckles
 - Rivets
 - Lanyard
 - Splices
 - Metal rivets
 - "D"RINGS
 - Deterioration
 - Frayed or broken fabric
 - Buckle tabs
 - Acid and bum damage
 - General conditions
- Such an inspection will be for general condition and damage by cuts and abrasions or burns. The inspector shall complete the safety harness inspection report, and forward it to the project SHE Co-ordinator or the appropriate 3 designated person on the project.
 - Any lifeline, full-body harness. Or lanyard actually subjected to in-service loading (suppressing a fall), shall be tagged "Do Not Use "until it is removed from service and shall not be used again for employee safeguarding.
 - ALTERED- No item as listed in above inspection list will be altered in any way. Look out for additional holes punched on tongue, excessive tongue cut off, parts of "d" ring of harnesses altered or removed.

WORK PRACTICES

The following are special requirements associated with working at elevated locations or while using fall-arresting equipment.

- Workers must avoid climbing on equipment such as pumps, exchangers, valve hand wheels, transformers, electric motors, handrails, structures, or any other facilities not specifically designed for climbing.
- Climbing on conduit, cable trays, or other similar equipment is not permitted. Climbing of vertical beams is not permitted.

- Workers must not climb a ladder while another person is above or below on the same time.
- All tools and equipment's utilized at elevated positions will be fitted with suitable lanyards to prevent them from falling down.
- All tools and equipment's required at elevated positions will be hoisted by means of approved tool bags and ropes.

LANYARDS

Lanyards must meet the following requirements:

- Maximum length of a lanyard is 1.8m in length, and is equipped with self-locking hooks on each end.

The lanyards must be equipped with shock absorbers.

- Snap hooks must be of a double-locking design to prevent accidental disengagement. When not in use, the lanyard must be secured and attached to the harness to prevent tripping or snagging.
- The lanyard must not be dragged.
- The lanyard must not be hooked back into itself unless designed for the purpose.
- Knots must not be tied in a lanyard. This will reduce the strength of the lanyard.

ANCHOR POINTS

Anchor points may be an existing structure, a pipe, or a temporary or permanent engineered device such as an installed eyebolt, slide rail, or cable management (eg static line). These anchor points must be inspected prior to use by the user of the harness and lifeline to verify that they are stable and safe to hook on.

Anchor points for lanyards / harnesses and vertical lifelines must meet the following requirements:

- Be of sufficient strength and stability to satisfactory support the mass, including any person it is intended to bear.
- Be installed in a manner that prevents accidental dislodgement from support structures.

- Be inspected by a competent person on a periodic basis.
- Be placed where attachment and detachment can be done without causing loss of balance.
- Be placed above shoulder height to reduce fall distance.
- Be free of sharp edges to avoid cutting the lanyard.

The following are examples of anchor points for individuals using harnesses, lanyards or vertical lifelines: Adequate for use

- Structural beams 15,24 cm or greater in depth for one or more people;
- Pipes 10,16 cm or greater for one person;
- Pipes 15,24 cm or greater for two people;
- Fixed permanent ladder rails and clips for one person;

14 POLICIES

14.1 HIV/AIDS POLICY

The Contractor Needs to fight against HIV / AIDS and commit itself to the following:

- To ensure that its employees are aware of and understand the impact of the AIDS epidemic.
- The formation of equality and non-discrimination between individuals with HIV infection and those without.
- The creation of a supportive work environment so that HIV infected employees are able to continue working under normal conditions in their current employment for as long as they are medically fit to do so.
- To educate its employees about how to take care of themselves in order to remain fit and healthy.
- Respect the individual's right to privacy at all times and therefore treats all information regarding employee's health status as confidential.

14.2 TB POLICY

The Contractor's elements of a workplace infection control program shall include:

- Developing an infection control plan following a risk assessment

- Implementing environmental controls, such as ensuring adequate ventilation by having outdoor waiting areas and windows that open or through simple architectural modifications to improve ventilation; cough hygiene for coughing patients; use of ultraviolet-light air disinfection
- Identifying workers that may have TB as rapidly as possible and referring them for prompt diagnosis and treatment
- Collecting sputum samples in a safe manner. This is best achieved by collecting sputum samples outside, but not in direct sunlight. If this is not possible, sputum should be collected in a well-ventilated room
- Relevant training for administrators and healthcare workers
- Offering HIV testing for those working in high risk situations and alternative jobs for HIV-infected workers
- Ensuring the use of personal respirators (N95 masks), particularly for those working with drug resistant TB patients

14.3. PPE POLICY

The Contractor shall -

Take steps to reduce the risk as much as is practicable, and shall provide free of charge and maintain in a good and clean condition such safety equipment and facilities as may be necessary to ensure that any person exposed to any such condition or situation at a workplace or in the course of his employment or on premises where machinery is used is rendered safe.

(3) Taking into account the nature of the hazard that is to be countered, and without derogating from the general duties imposed on employers and users of machinery shall include, as may be necessary --

(a) suitable goggles, spectacles, face shields, welding shields, visors, hard hats, protective helmets, caps, gloves, gauntlets, aprons, jackets, capes, sleeves, leggings, spats, gaiters, protective footwear, protective overalls, or any similar safety equipment or facility of a type that will effectively prevent bodily injury;

(b) waterproof clothing, high-visibility clothing, chemical-resistant clothing, low temperature clothing, chain mail garments, waders, fire retardant or flame-proof clothing, ice-jackets, or any similar safety equipment of a type that will effectively protect the wearer thereof against harm;

(c) belts, harnesses, nets, fall arresters, life lines, safety hooks, or any similar equipment of a type

that will effectively protect persons against falls;

(d) mats, barriers, locking-out devices, safety signs, or any similar facility that will effectively prevent slipping, unsafe entry or unsafe conditions;

(e) protective ointments, ear-muffs, ear-plugs, respirators, breathing apparatus, masks; air lines, hoods, helmets, or any similar safety equipment or facility of a type that will effectively protect against harm;

(f) suitable insulating material underfoot where persons work on a floor made of metal stone, concrete or other similar material; and

(g) generally, such safety equipment or facilities as may be necessary to render the persons concerned safe.

(4) **The Contractor's** or a user of machinery, as the case may be, shall take steps to ensure that no safety equipment or facility provided as required by this or any other regulation is removed from a workplace or from premises where machinery is used, except for purposes of cleaning, repair, maintenance, modification, mending or replacement, and no person shall remove any such safety equipment or facility from a workplace or premises where machinery is used, except for the aforesaid purposes.

(5) **The Contractor** shall instruct its employees in the proper use, maintenance and limitations of the safety equipment and facilities provided.

(6) **The Contractor** shall not require or permit any employee to work unless such an employee uses the required safety equipment or facility provided in terms of this or any other regulations.

PART C4
SITE INFORMATION

C4.1

SITE INFORMATION

PG-03.2 (EC) SITE INFORMATION – JBCC 2000 PRINCIPAL BUILDING AGREEMENT (edition 4.1 of March 2005)

Project title:	Mpumalanga: Standerton Labour Centre - Construction of a new labour centre		
Tender no:	NST21/003	Reference no:	

C4 Site Information

1. **GENERAL (Note to departmental project manager/consultant(s): This item serves as a guideline only and must be deleted)**
 - (a) *The Standard for Uniformity in Construction Procurement published in terms of the Construction Industry Development Board (CIDB) Act, 2000 (Act no. 38 of 2000), the Standardized Construction Procurement Documents for Engineering and Construction Works as issued by the CIDB and any other relevant documentation pertaining thereto must be studied and all principles in this regard must be applied to all procurement documentation, practices and procedures.*
 - (b) *The consultant(s)/project manager must acquaint themselves fully with all relevant matters pertaining to this section in order to enable prospective tenderers to price for all eventualities.*
2. *The following serves as a guideline only with regard to the type of items to be included in the Site Information. (Delete this instruction and re-number the items as required)*
 - (a) Describe nature of ground, surface conditions, water table as visible in test holes and other indisputable facts that may affect construction. Provide available data and information.
 - (b) *Specific requirements must be described in clause 12.1 of the Schedule of Variables, Section B, JBCC Preliminaries (Delete this instruction)*
 - (c) Describe in detail herein any additional site information such as site location, improvements on site, adjacent buildings, environmental issues, etc.

C4.2

GEOTECHNICAL INVESTIGATION REPORT



GEOTECHNICAL REPORT

***STANDERTON LABOUR CENTRE EXTENSION
STANDERTON
MPUMALANGA PROVINCE***

***Requested by
TLOU Integrated Tech CC***

***Project GA0624/2018
November 2018***



GEOTECHNICAL REPORT

STANDERTON LABOUR CENTRE EXTENSION STANDERTON MPUMALANGA PROVINCE

**Requested by
TLOU Integrated Tech CC**

**Project GA0624/2018
November 2018**

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Project GA0624/2018

23rd November 2018

GEOTECHNICAL REPORT
STANDERTON LABOUR CENTRE EXTENSION
STANDERTON - MPUMALANGA

1 INTRODUCTION

The following report describes the findings of a geotechnical investigation undertaken on the 30th and 31st October 2018 for the proposed extension of the Standerton Labour Centre Offices located in Standerton, Mpumalanga Province. The investigation was undertaken by Ground Africa Consulting Geotechnical Engineers at the request of Violet Madise of TLOU Integrated Tech cc.

The geotechnical investigation was undertaken to ascertain the general ground conditions underlying the footprint of the proposed new single storey office as well as to obtain an indication of the founding solution employed during the construction of the existing single storey office building which is on site. Recommendations with respect to suitable foundation types, allowable bearing capacities and ground improvement have been included. Commentary pertaining to anticipated earthworks, groundwater conditions and re-use potential of in-situ material has also been discussed herein.

A general site layout showing the proposed position of the new extension and associated developable areas was supplied for the geotechnical investigation by TLOU Integrated Tech. Trial holes and associated tests have been positioned according to the supplied layout.

2 SITE DESCRIPTION

The earmarked site (*with GPS co-ordinates 26°57'11.7"S; 29°14'37.8"E*) is situated within the town of Standerton, Mpumalanga Province. The site is located within the towns CBD and is bordered by the Standerton Magistrates Court to the west and Municipal offices to the North. Access to the site is possible using Kerk Street situated along the eastern boundary.

The earmarked site is rectangular in shape and covers an area of approximately 1970m². Precast concrete and steel fencing mark the boundary lines. The ground profile of the site is generally level and appears to have been flattened through the placement of a surface fill layer. A fill embankment is located along the western boundary of the site with the neighbouring Magistrates Court resting at a lower ground level.

An existing single storey structure is situated in the northern portion of the site and has a floor area of approximately 270m². The structure has been vandalised and is in a dilapidated state. A brick paved parking area is present along the northern section of the structure. An existing carport and small single storey storeroom are present directly south of the existing structure and are in a dilapidated state.

The surrounding open areas, mainly situated across the southern portion of the site, are generally uneven and overlain with rubble and municipal waste. Old structural elements are also present in the open areas across the southern part of the site. These comprise concrete slabs and brick stub columns from previous existing structures.

Existing services present on site include piped potable water and a municipal electrical supply. The supply of these services to the site has been disconnected. A sewer line with associated inspection manholes was noted to pass through the southern portion of the site.

Photographs taken at the time of the geotechnical investigation are included over-page for reference:



Picture 1: Looking south along the eastern boundary of the site towards the existing single storey office structure.



Picture 2: Looking south from the northern boundary of the site along the western fence line.



Picture 3: Looking north from the approximate centre of the site towards the existing single storey structure.



Picture 4: Looking north west towards the existing carport and outbuilding which are present.



Picture 5: Looking south along the western boundary of the site.



Picture 6: Looking north west towards the neighbouring magistrates court.



Picture 7: Looking north along the eastern boundary from the southern portion of the site.



Picture 8: Looking west towards the previously demolished structures, situated in the southern portion of the site.

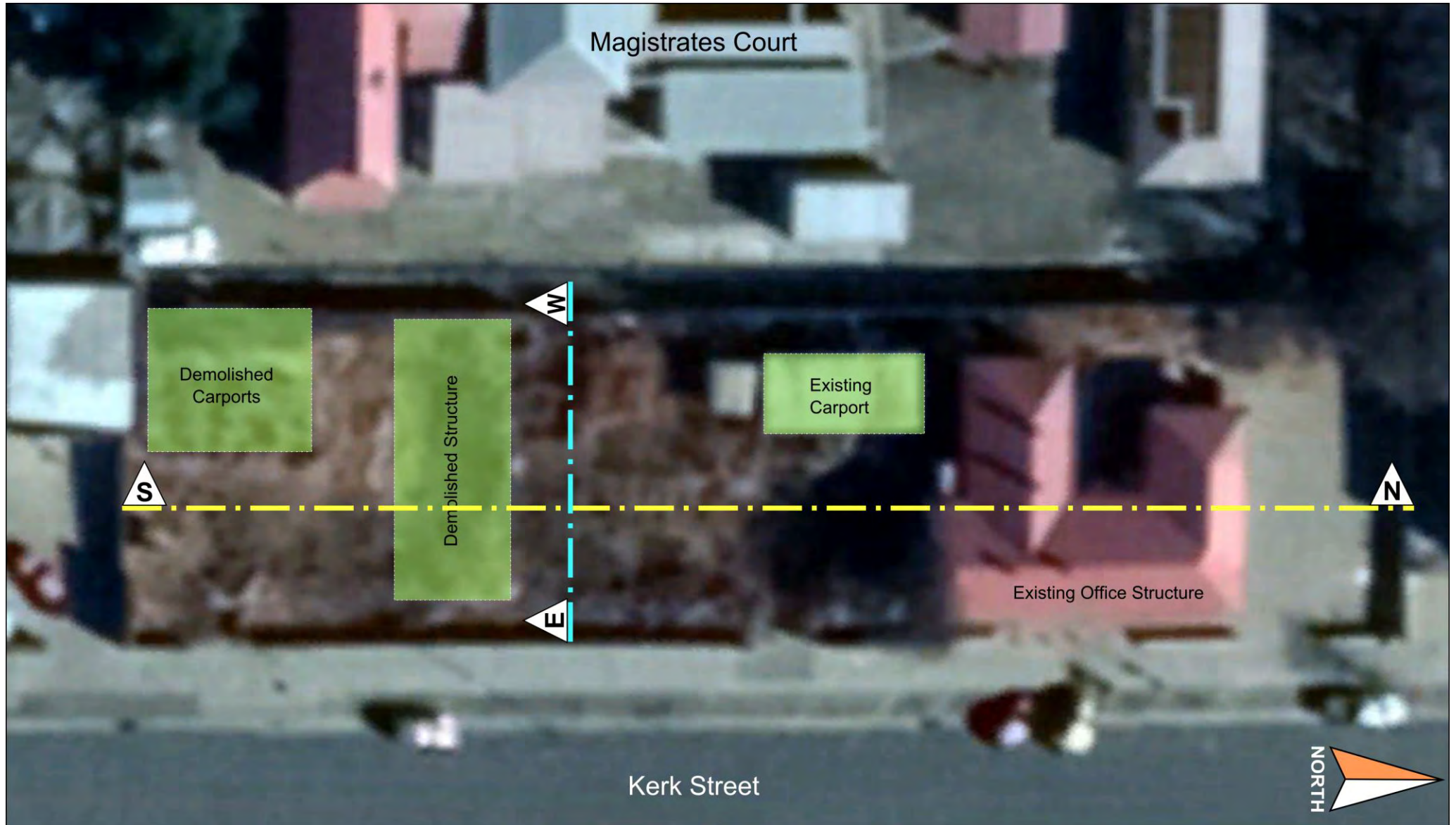
3 GEOLOGY

Geological mapping of the area indicates the site to be underlain by sedimentary rock of the Vryheid Formation, Ecca Group, Karoo Supergroup. The Vryheid Formation comprises fine through to coarse grained sandstone, siltstone and shale. Sedimentary rocks of the Vryheid Formation were deposited within fluvial environments and are generally near horizontally bedded.

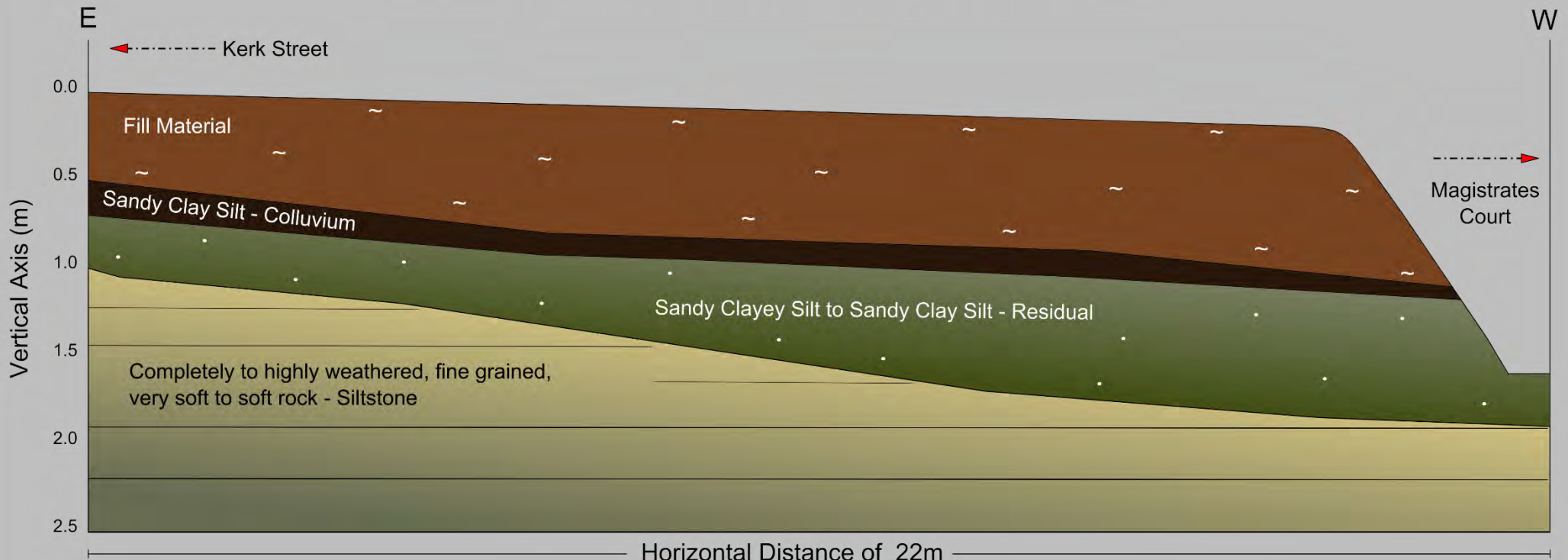
The excavation of trial holes on site resulted in the intersection of very soft to soft rock siltstone of the Vryheid Formation. The siltstone is overlain by fine grained, clay rich residual soils derived from the in-situ decomposition of the rock material. The residual soils were found to be masked by fill and colluvium at surface.

Karoo aged dolerite sills and dykes are common in the surrounding areas and extensively intrude the sedimentary rocks of the Vryheid Formation. Dolerite is a medium grained, hypabyssal igneous rock formed due to the injection of molten magma into joints and fissures present within the overlying rock mass.

Geological cross sections of the investigated site are provided over-page for reference:

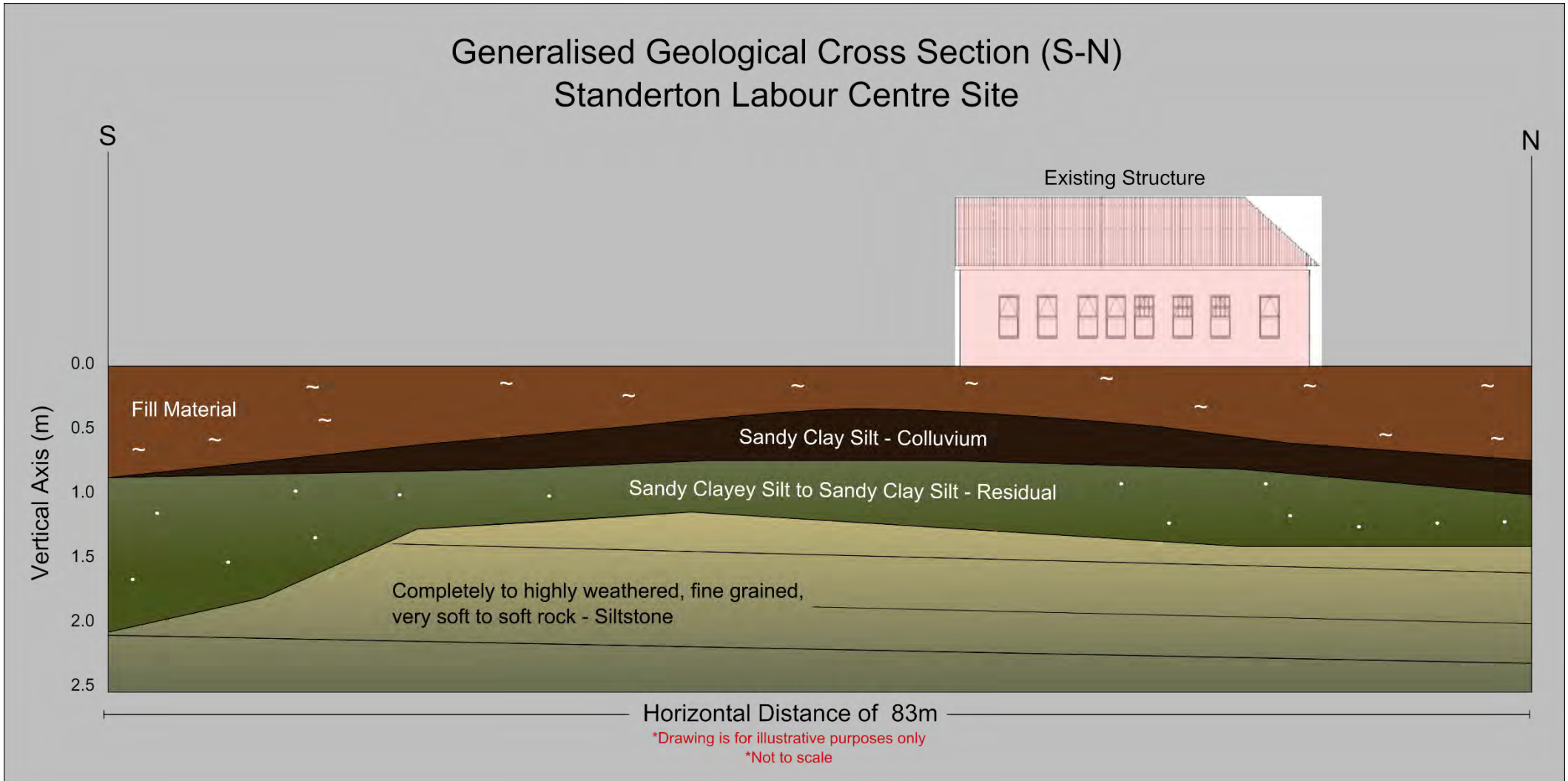


Generalised Geological Cross Section (E-W) Standerton Labour Centre Site



Horizontal Distance of 22m
 *Drawing is for illustrative purposes only
 *Not to scale

Generalised Geological Cross Section (S-N) Standerton Labour Centre Site



4 FIELDWORK

4.1 Fieldwork Methods

Geotechnical fieldwork undertaken on the 30th October 2018 comprised the following:

- Manual excavation of six (6x) trial holes to depths of between 1.1m and 1.6m below present ground level (PGL). Hand augers were undertaken at the base of selected trial holes to between 1.7m and 2.0m below PGL.
- Exposure and measurement of the foundations supporting the existing single storey building to obtain an indication of the present founding regime and assess its performance/suitability.
- Soil profiling of the ground layers exposed in the trial hole sidewalls and returned auger head cuttings.
- Soil sampling to obtain an indication of the grading, Atterberg Limits and heave potential of the natural residual soils beneath the site.
- Eight (8x) dynamic penetrometer light (DPL) tests to depths of between 1.0m and 2.2m below PGL to assess the variation in consistency of the soils underlying the earmarked site.

The locations of the trial holes are shown in **Appendix A**. Trial hole depths were determined by tape measurement from present ground level. All the trial holes were profiled according to the method of Jennings, Brink and Williams as per the paper “Revised guide to soil profiling for civil engineering purposes in Southern Africa” as published in the Transactions of the South African Institution of Civil Engineers. Individual soil profiles are included in **Appendix B**.

In the dynamic penetrometer light (DPL) test, a specific angle ended cone fixed to the end of a steel rod is driven into the ground using a standard weighted hammer that drops by a constant height. The distance measured at each blow as the rod moves into the ground is recorded, and these values are correlated to known values for soils. This information is then used to assess the density/consistency of the soils and obtain an indication of likely bearing capacities with the aid of numerical calculation. DPL field results have been included in **Appendix C**.

4.2 Fieldwork Results

4.2.1 Soil Profiles

The excavation of trial holes on site indicates the presence of a relatively uniform subsurface ground profile. Weathered siltstone rock was intersected at depths of between 0.9m and 1.9m below PGL and is overlain by a sequence of fine-grained residual and colluvial soils. A generalised soil profile is shown below for reference:

Fill	Dry to slightly moist, brown to brownish orange with grey blotches, medium dense, intact, fine to medium grained; CLAYEY GRAVELLY SAND to SANDY CLAYEY SILT – Fill with broken bricks, coal and concrete fragments.
Colluvium	Slightly moist, dark brown, firm, shattered and slickensided; SANDY CLAY SILT – Colluvium .
Upper Residual	Slightly moist, greenish olive brown with white blotches, firm, slightly shattered to shattered; SANDY CLAYEY SILT to SANDY CLAY SILT – Residual .
Lower Residual	Slightly moist, khaki olive, firm, intact; SANDY CLAYEY SILT – Residual Siltstone with relic rock fragments.
Siltstone	Khaki olive to dark greenish olive with orange surface staining, completely to highly weathered, closely to medium jointed, fine grained; very soft to soft rock – Siltstone .

The natural colluvial and residual soil horizons underlying the site are masked by a fill horizon of variable composition. Formal pavement layers comprising base course and sub base horizons were intersected beneath the existing paved parking area in the northern portion of the site with gravelly clayey sands to sandy clayey silts being intersected in the open southern area. Building rubble and miscellaneous debris are common in the southern portion of the site.

Colluvial soils intersected at depths of between 0.4m and 0.8m below PGL comprise a dark brown, sandy clay silt. The colluvium possesses a shattered and slickensided soil structure, indicating the material is susceptible to heave and shrinkage owing to corresponding changes in the in-situ moisture content.

Continued excavation resulted in the intersection of upper and lower residual soil horizons which are discernible by means of colour and grading. The upper residual horizon was intersected at depths of between 0.6m and 1.0m below PGL and comprises a sandy clay silt

to sandy clayey silt. The material is greenish olive brown with white blotches and was noted to possess a slightly shattered to shattered soil structure.

The lower residual horizon was encountered at depths of between 1.1m and 1.6m below PGL and is khaki olive in colour. The material comprises a sandy clayey silt and contains relic siltstone fragments.

Completely to highly weathered siltstone rock was intersected at depths of between 0.9m and 1.9m below PGL. The siltstone is khaki olive to dark greenish olive with orange staining being observed along joint and fracture surfaces. The rock material grades from very soft to soft with depth and is closely to medium jointed.

No groundwater was encountered within trial holes excavated on site. A table listing the depths to identified horizons is given below for reference:

Trial Hole	Depth to Colluvium	Depth to Upper Residual	Depth to Lower Residual	Depth to Rock	Total Depth
TH1	Not Intersected	0.8m	1.1m	1.9m	2.0m
TH2	0.7m	0.9m	1.6m	1.8m	1.9m
TH3	0.4m	0.6m	Not Intersected	0.9m	1.1m
TH4	0.4m	0.7m	Not Intersected	1.2m	1.3m
TH5	0.7m	0.9m	1.2m	1.4m	1.6m
TH6	0.8m	1.0m	1.4m	1.6m	1.7m

Individual soil profiles are included in **Appendix B** of the geotechnical report.

4.2.2 Dynamic Penetrometer Light Tests

Eight (8x) dynamic penetrometer light (DPL) tests were undertaken on site to assess the variation in consistency of the underlying soils with depth. Testing was conducted from surface to depths of between 1.0m and 2.2m below PGL.

Fill materials intersected on site are generally of a medium dense consistency with penetration rates of between 25mm/blow and 8mm/blow being recorded. Some variability in the consistency of the fill can be anticipated with loose as well as dense zones being intersected in places.

Colluvial soils intersected at depths of between 0.4m and 0.8m below PGL are of a firm consistency. Penetration rates within the colluvium were found to range from 8mm/blow to 17mm/blow.

Continued testing within the residual soils intersected at depths of between 0.6m and 1.0m below PGL yielded penetration rates of between 17mm/blow and 6mm/blow indicating the material is initially of a firm consistency, becoming stiff with depth. Some erratically occurring soft zones, marked by penetration rates exceeding 30mm/blow, are present within the residual horizon as noted in DPL1 and DPL3.

Testing undertaken within the weathered siltstone yielded penetration rates of between 6mm/blow and 2mm/blow with refusal of the DPL apparatus being encountered shortly thereafter. Individual DPL test result sheets are included in **Appendix C** of the geotechnical report.

4.2.3 Existing Foundations

The foundations of the existing single storey office were exposed to determine the type, depth and dimensions of the footings used and to assess the general performance of these elements. A summary table, listing the details of the exposed foundation is included below for reference:

Trial Hole	Foundation Type	Thickness	Approximate Width	Embedment Depth	Embedment Material
TH6	Concrete Strip Footing	250mm	~520mm	1150mm	Slightly moist, greenish olive with khaki blotches, firm, slightly shattered; SANDY CLAY SILT – Residual .

The existing foundation type appears to comprise a 250mm thick concrete strip footing which is embedded at a depth of 1150mm within the clay rich residual soils. The main walls of the structure were noted to be in good structural condition. Some small cracks are evident in the bearing positions of the supported roof trusses.

5 LABORATORY TESTING

A representative sample of the underlying residual soil horizon was retrieved and subjected to Foundation Indicator Testing to determine the clay content, plastic properties and particle size distribution of the material as well as obtain an indication of heave and shrinkage properties. Result sheets as received from the laboratory are included as **Appendix D** with final results summarised in the table below:

Foundation Indicator

Sample	TH	Depth (m)	Material	LS	PI	% Clay (<0.002mm)	GM	Grading (% comprising)				Heave Potential
								Cs	Fs	Si	Cl	
ST1	2	1.2m	Greenish olive brown with white blotches; SANDY CLAYEY SILT – <i>Residual</i> .	10.6	21	38	0.41	10	11	41	38	Medium

Where:

TH: Trial hole from which samples were retrieved

LS: Linear Shrinkage

GM: Grading Modulus

Cs: Coarse Sand

Fs: Fine Sand

HP: Heave Potential

PI: Plasticity Index

% Clay: Clay content (<0.002mm)

Si: Silt

Cl: Clay

% comprising is according to SANS 3001: GR1

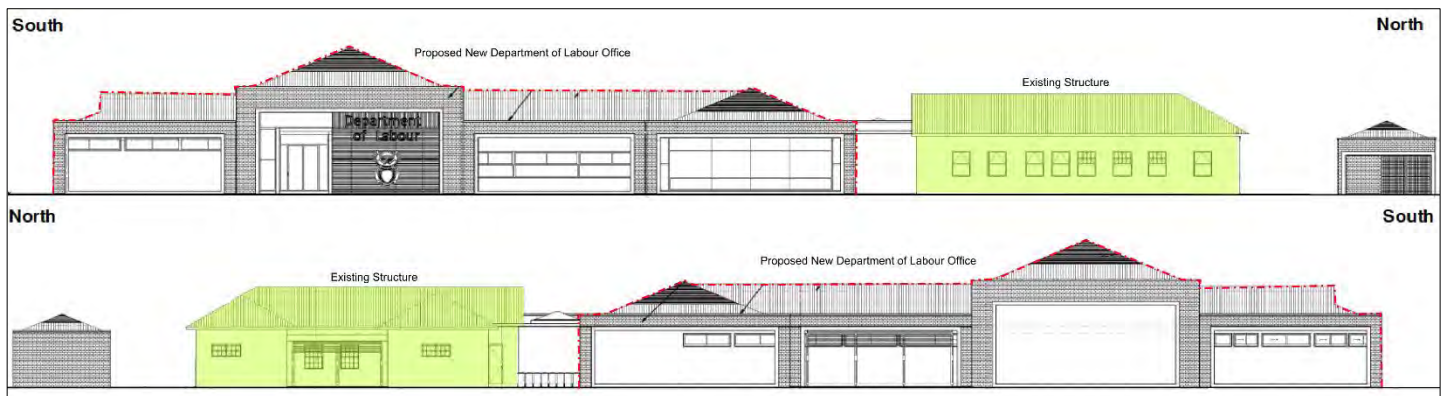
Foundation indicator testing undertaken on the residual soil sample shows that the material comprises high concentrations of silt (41%) and clay (38%). Associated high linear shrinkage (10.6%) and plasticity index (21%) values indicate the material has a medium high heave potential. As such, heave and shrinkage movement of the residual soils can be anticipated.

6 GEOTECHNICAL ASSESSMENT

6.1 Proposed Development

From drawings and recent correspondence, it is understood that the proposed development will comprise the construction of a new single storey office building in the existing, open southern area of the site as well as the construction of a new vehicle parking garage across the northern part of the site. The proposed new office building will have a surface footprint of approximately 650m². The existing single storey structure will undergo repairs and renovations. The existing and new structures will be linked using a bricked corridor.

Elevational drawings, as received from the client, have been included below for reference purposes.



6.2 Earthworks

Significant site clearance will be required prior to construction. This will include the demolition of the existing outbuilding, carport, concrete surface beds and foundation elements from the previously demolished structure. Further to this, the existing sewer line which passes beneath the footprint of the proposed new office will need to be removed and the resulting voids backfilled.

A large amount of rubble and debris will need to be removed from site. This will necessitate the use of a standard sized tractor loader backhoe and tip truck. Further to this, a TLB will be required to assist in creating a levelled working platform. The use of pneumatic jack hammers will also be required for the breaking up old concrete footings and floor slabs which are present.

Trial hole excavations on site were undertaken using conventional manual methods (pick, spade and digging bar). Excavation through the fill and natural soil horizons was found to be

relatively easy with relatively slow and difficult excavation being encountered upon the intersection of weathered siltstone rock. Trial hole sidewalls were noted to be stable in a freestanding state during the excavation and soil profiling stages. Owing to the variability in depth to rock head contact, it is recommended that foundation trenches be excavated using a standard sized TLB.

No groundwater was intersected within trial hole or auger boreholes conducted on site. The ponding of stormwater along the base of foundation trench excavations can be anticipated after torrential downpours owing to the low to very low permeabilities of the residual soil and weathered rock horizons. Cognisance of this must be taken, if the construction works are undertaken during the wetter summer months.

6.3 Foundations

The earmarked site is underlain by siltstone rock at depths of between 0.9m and 1.9m below PGL. The depth to rock head contact is greatest in the southern most section of the site with deeper zones also being present along the western boundary line. The use of shallow foundations such as nominally reinforced concrete strip footings will be able to support the proposed single storey structure and parking garage; however, it is recommended that the following ground preparation be undertaken prior to their construction:

- Strip and remove all fill, building rubble and remaining foundation elements from the proposed footprint of the foundations.
- Continue excavations through the colluvial and residual soil horizons ensuring the clean intersection of weathered siltstone rock. This will require excavations to depths ranging between 0.9m to 1.9m below ground level.
- It is imperative that steel reinforcing be utilised within the foundations to assist in accommodating some flexure brought about by some expected post construction settlement. Steel reinforcing will need to be as per the structural engineers' specification and must be inspected prior to the pouring of concrete.

Owing to the large footprint of the proposed structure and its foundations straddling weathered rock of slightly differing strengths, it is recommended that generous provision be made for articulation throughout the new structures. Joints must be placed at the interface between the old building and the proposed new extensions as differential post-construction movement will occur between the old and new foundations. Further to this, brickforce will be required within all walls and must be installed as per the design engineers' specification.

From DPL test results and empirical calculation, some indicative allowable bearing capacities are tabulated below:

Material	Foundation Type	Dimensions (width)	Minimum Embedment	Allowable Bearing Capacity*
Completely weathered, very soft to soft rock; Siltstone	Strip Footing	0.8m	100mm into weathered siltstone	150kPa
Completely weathered, very soft to soft rock; Siltstone	Strip Footing	1.0m	100mm into weathered siltstone	180kPa

The bearing capacities tabulated are only valid should the required ground preparation be carried out to the specifications listed. It is further recommended that a concrete apron, at least 0.8m wide, be constructed around the new structures.

6.4 Surface Beds and Floor Slabs

Concrete surface beds will need to be constructed upon a subgrade of uniform consistency. This will require the removal of fill, building rubble and miscellaneous debris across the proposed footprint. It is recommended that the following ground preparation be undertaken prior to surface bed construction:

- Strip and remove all fill, remaining foundation elements and rubble from the footprint of the proposed surface bed.
- Continue excavations until the upper residual soil horizon is intersected. A minimum depth of 0.7m is anticipated.
- Scarify and compact the base of the excavation to 98% MOD AASHTO at 2% OMC to assist in removing localised soft zones across the footprint area.
- Introduce a granular material, of minimum G6 quality, such as weathered dolerite in 150mm thick layers. Each consecutive layer must be compacted to 98% MOD AASHTO at 2% OMC until the desired invert level of the base course horizon is achieved.
- Construct the base course horizon as per the design engineers' specification over the prepared G6 subgrade.

It is imperative that the concrete surface beds be cast independent of the surrounding walls and foundations to allow for some expected post construction movement to be accommodated.

6.5 Re-use Potential of In-Situ Soils

Natural residual soils intersected on site were found to have a medium expansive potential indicating that heave and shrinkage of the material can be expected with corresponding changes in the in-situ moisture content. The colluvial and residual soils are of a very low quality (spoil) and will not be suitable for re-use as engineered fill during construction. Owing to the highly weathered siltstone rock only needing to be intersected at the base of foundation excavations, minimal quantities of this material will be retrieved during foundation construction. Suitable, high quality granular material, for use as engineered fill, parking pavement layers as well as base course and sub base horizons will need to be imported from commercial sources.

6.6 Groundwater and Drainage

No groundwater was intersected within trial holes or auger boreholes conducted on site. The residual soils and weathered rock horizons are classified as being of a very low permeability. As such, it is expected that stormwater will collect at the base of open excavations during construction. Allowance must be made by the contractor to remove this water.

Drawings show that the proposed development will utilise the majority of the open, available space in the southern portion of the site. The extensive footprint of the proposed structure and generally impermeable nature of the residual soils and weathered rock make the site unsuitable for conventional septic tank and soak-away systems. As such, it is recommended that waterborne sewerage be disposed through the municipal sewer line which passes within close proximity of the site.

Surface stormwater runoff is expected to high, owing to the majority of the site being covered with roof and hard surfaces. As such. It is imperative that surface v-drains are generously provided around the site and that a formal network is designed to direct water non-destructively offsite into a formal municipal stormwater system.

6.7 Retaining Walls

Owing to the site being elevated above the ground level of the neighbouring magistrate's court to the west, it is recommended that a formal retaining wall be constructed along the separating boundary line. The retaining wall can be constructed of pre-cast retaining blocks and must rest on steel reinforced strip footings, embedded a minimum of 300mm into weathered siltstone rock.

7 CONCLUSION

The geotechnical investigation indicates the site has favourable founding conditions. The site is underlain by near surface, completely to highly weathered siltstone rock. Rock depth varies between 0.9m to 1.9m below present ground level. Clay rich residual and colluvial silts overlie the weathered rock. In turn, a surface fill layer overlies the natural ground layers. The fill comprises clayey silts and sands and appears to have been placed during the initial development of the site to level the area. No groundwater was intersected in the trial holes.

It is recommended that nominal steel reinforced concrete strip footings be used to support the proposed extensions and new single storey structures. All foundations must be embedded within the underlying siltstone. It is imperative that articulation is generously provided through all new structures and that the interface between old and new buildings is adequately jointed to allow expected differential post-construction movement across these areas.

Foundation trench excavations can be undertaken using manual means; albeit the general removal of the large amount of fill material which overlies the site will necessitate the use of a standard sized TLB.

The in-situ colluvial and residual soils are of a low quality and have limited re-use potential. Suitable, high quality granular material, for use as engineered fill, parking pavement layers as well as base course and sub base horizons will need to be imported from commercial sources.

The site is deemed geotechnically suitable for the proposed development, provided the recommendations outlined herein are adhered to.

GROUND AFRICA CONSULTING GEOTECHNICAL ENGINEERS

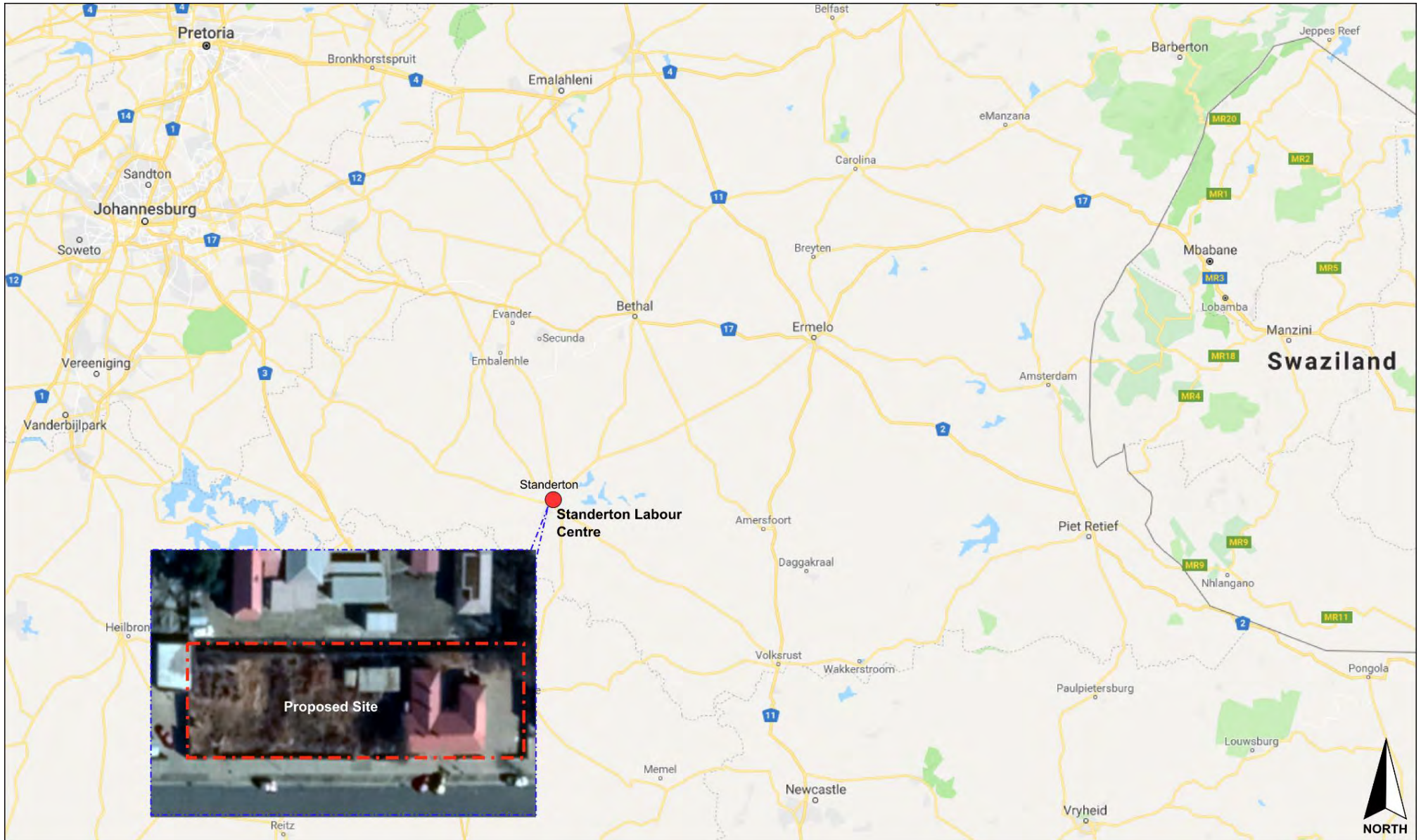


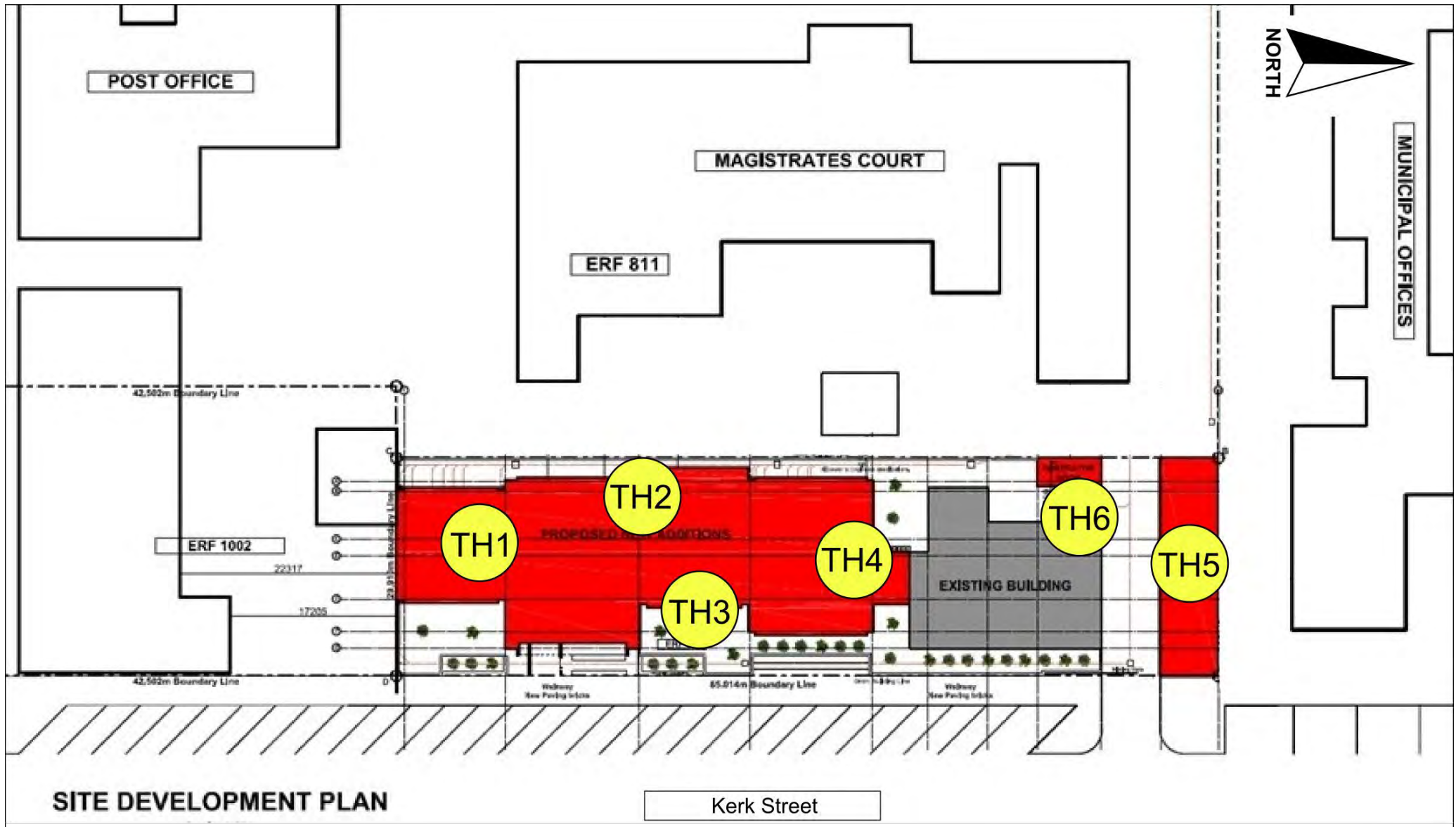
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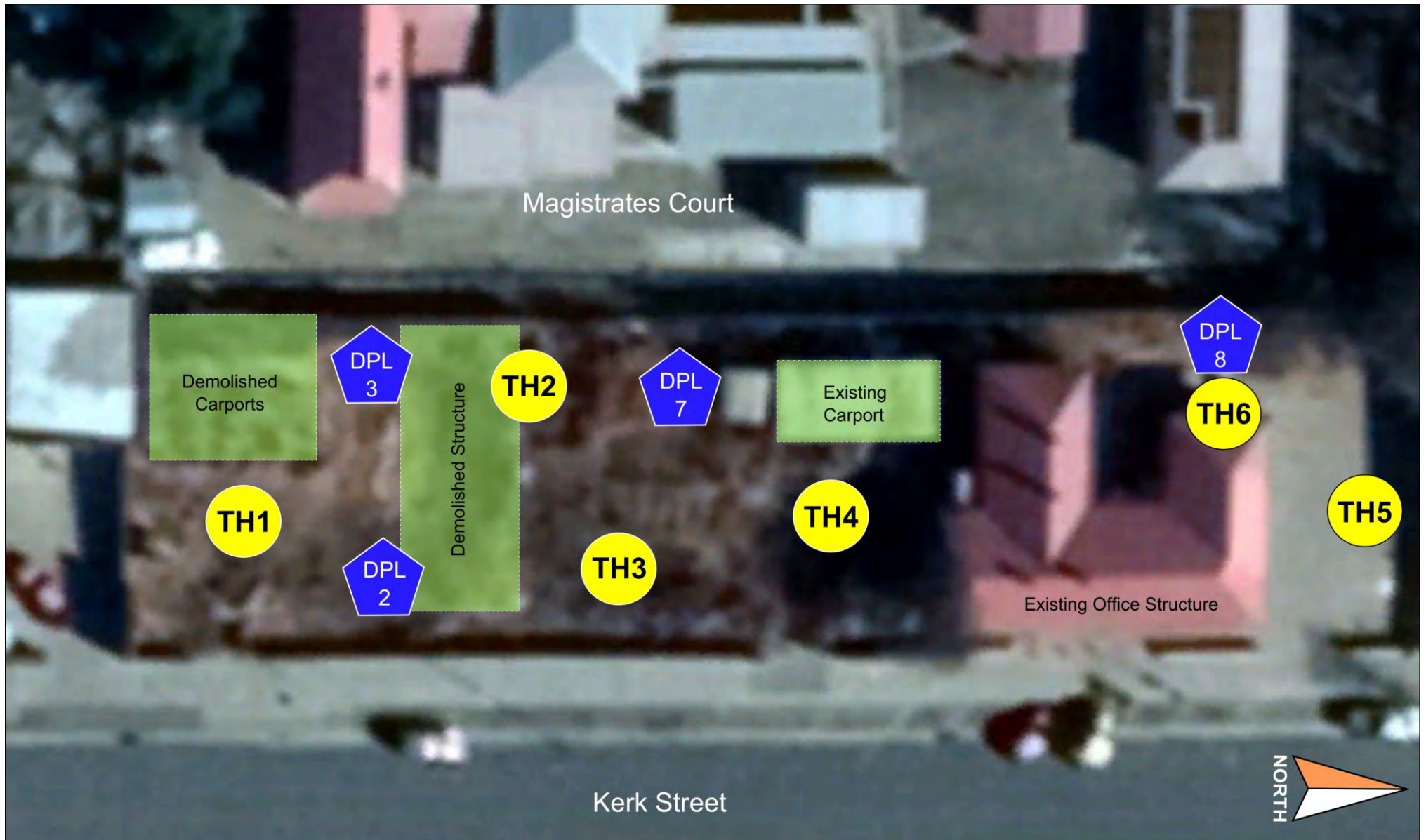


Nigel Brink Pr.Sci.Nat (115954)
Engineering Geologist

APPENDIX A
Locality Map
Trial Hole and DPL Positions









APPENDIX B
Individual Soil Profiles

	<h3 style="margin: 0;">TRIAL HOLE PROFILE</h3> <p>CLIENT: TLOU Integrated Tech PROJECT: Standerton Labour Centre Extension PROJECT NO: GA0624/2018 LOCATION: Footprint of Proposed Extension</p>	<p>HOLE No: TH1 LATITUDE: 26°57'12.3"S LONGITUDE: 29°14'37.9"E</p> <p style="text-align: right; font-size: small;">Sheet 1 of 1</p>
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Depth		Description	
		<i>Present Ground Surface</i>	
	0,00	GRAVELLY SAND - FILL Dry, dark brown to black with grey blotches, medium dense, intact, fine to medium grained; GRAVELLY SAND - Fill with coal and concrete fragments.	
	0,20	GRAVELLY CLAYEY SILT - FILL Slightly moist, olive brown with orange blotches, medium dense, slightly shattered; GRAVELLY CLAYEY SILT - Fill with broken bricks and concrete.	
0,5			
	0,80	SANDY CLAYEY SILT Slightly moist, greenish olive brown with white blotches, firm, slightly shattered; SANDY CLAYEY SILT - Residual.	
1,0			
	1,10	SANDY CLAY SILT Slightly moist, mottled khaki orange and grey, firm, shattered and slickensided; SANDY CLAY SILT - Residual.	
1,5			
	1,70	SANDY CLAYEY SILT Slightly moist, khaki olive, firm, intact; SANDY CLAYEY SILT - Residual Siltstone with relic rock fragments.	
	1,90		
	2,00	Very soft to soft rock; SILTSTONE Khaki olive, completely to highly weathered, fine grained, very soft to soft rock; SILTSTONE.	
		End of log	


<p>NOTES:</p> <ol style="list-style-type: none"> 1: End of hole at 2.0m 2: Hand auger commenced at 1.2m 3: Refusal at 2.0m 4: No sample obtained 5: No groundwater encountered 	<p style="text-align: center;">Ground Africa Consulting Engineers</p> <p>PO Box 926 26 John Ross Avenue Eshowe, KZN Eshowe, KZN 3815 3815</p> <p>Tel: +27 35 474 7949 Fax: +27 86 621 7160 Email: fcvolbrecht@groundafrica.co.za</p>				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">EXCAVATION METHOD: Manual Excavation and Hand Auger</td> </tr> <tr> <td style="padding: 2px;">DATE PROFILED: 10/30/2018</td> </tr> <tr> <td style="padding: 2px;">PROFILED BY: NB</td> </tr> <tr> <td style="padding: 2px;">CHECKED BY: FCV</td> </tr> </table>		EXCAVATION METHOD: Manual Excavation and Hand Auger	DATE PROFILED: 10/30/2018	PROFILED BY: NB	CHECKED BY: FCV
EXCAVATION METHOD: Manual Excavation and Hand Auger					
DATE PROFILED: 10/30/2018					
PROFILED BY: NB					
CHECKED BY: FCV					

	<h3 style="margin: 0;">TRIAL HOLE PROFILE</h3> <p style="margin: 0;">CLIENT: TLOU Integrated Tech PROJECT: Standerton Labour Centre Extension PROJECT NO: GA0624/2018 LOCATION: Footprint of Proposed Extension</p>	<p>HOLE No: TH2 LATITUDE: 26°57'11.7"S LONGITUDE: 29°14'37.8"E</p> <p style="text-align: right; font-size: small;">Sheet 1 of 1</p>
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Depth		Description	
		<i>Present Ground Surface</i>	
	0.00	CLAYEY GRAVELLY SAND - FILL Dry to slightly moist, brown to brownish orange, medium dense, intact, fine to medium grained; CLAYEY GRAVELLY SAND - Fill.	
0.5	0.40	SANDY CLAYEY SILT - FILL Slightly moist, brown with grey and orange blotches, medium dense, slightly shattered; SANDY CLAYEY SILT - Fill with broken bricks and concrete fragments.	
	0.70	SANDY CLAY SILT Slightly moist, dark brown, firm, shattered and slickensided; SANDY CLAY SILT - Colluvium with some fine gravel.	
1.0	0.90	SANDY CLAY SILT Slightly moist, greenish olive brown with white blotches, firm, slightly shattered to shattered; SANDY CLAY SILT - Residual.	
1.5	1.60	SANDY CLAYEY SILT Slightly moist, khaki olive, firm, intact; SANDY CLAYEY SILT - Residual Siltstone.	
	1.80	Very soft to soft rock; SILTSTONE Khaki olive, completely to highly weathered, fine grained, very soft to soft rock; SILTSTONE.	
	1.90	End of log	


<p>NOTES:</p> <ol style="list-style-type: none"> 1: End of hole at 1.9m 2: Hand auger commenced at 1.4m 3: Refusal at 1.9m 4: Sample ST1 obtained at 1.2m 5: No groundwater encountered 	<p>Ground Africa Consulting Engineers</p> <p>PO Box 926 26 John Ross Avenue Eshowe, KZN Eshowe, KZN 3815 3815</p> <p>Tel: +27 35 474 7949 Fax: +27 86 621 7160 Email: fcvolbrecht@groundafrica.co.za</p>				
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EXCAVATION METHOD: Manual Excavation and Hand Auger					
DATE PROFILED: 10/30/2018					
PROFILED BY: NB					
CHECKED BY: FCV					

	<h3 style="margin: 0;">TRIAL HOLE PROFILE</h3> <p style="margin: 0;">CLIENT: TLOU Integrated Tech PROJECT: Standerton Labour Centre Extension PROJECT NO: GA0624/2018 LOCATION: Footprint of Proposed Extension</p>	<p>HOLE No: TH3 LATITUDE: 26°57'11.4"S LONGITUDE: 29°14'38.1"E</p> <p style="text-align: right; font-size: small;">Sheet 1 of 1</p>
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Depth		Description	
		<i>Present Ground Surface</i>	
	0,00	CLAYEY GRAVELLY SAND - FILL Dry, brown to light grey, medium dense, intact, fine to medium grained; CLAYEY GRAVELLY SAND - Fill.	
	0,20	SANDY CLAYEY SILT - FILL Slightly moist, brown to olive brown, medium dense, slightly shattered; SANDY CLAYEY SILT - Fill with concrete fragments.	
0,5	0,40	SANDY CLAY SILT Slightly moist, dark brown, firm, shattered and slickensided; SANDY CLAY SILT - Colluvium with some fine gravel.	
	0,60	SANDY CLAY SILT Slightly moist, greenish olive brown with white blotches, firm, slightly shattered to shattered; SANDY CLAY SILT - Residual.	
	0,90	Soft rock; SILTSTONE Greenish olive to dark greenish olive with orange staining, completely to highly weathered, closely to medium jointed, fine grained, soft rock; SILTSTONE.	
1,0	1,10	End of log	


<p>NOTES:</p> <ol style="list-style-type: none"> 1: End of hole at 1.1m 2: Slow manual excavation from 0.9m 3: No refusal 4: No sample obtained 5: No groundwater encountered 	<p style="text-align: center;">Ground Africa Consulting Engineers</p> <p>PO Box 926 26 John Ross Avenue Eshowe, KZN Eshowe, KZN 3815 3815</p> <p>Tel: +27 35 474 7949 Fax: +27 86 621 7160 Email: fcvolbrecht@groundafrica.co.za</p>				
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EXCAVATION METHOD: Manual Excavation					
DATE PROFILED: 10/30/2018					
PROFILED BY: NB					
CHECKED BY: FCV					

	<h3 style="margin: 0;">TRIAL HOLE PROFILE</h3> <p>CLIENT: TLOU Integrated Tech PROJECT: Standerton Labour Centre Extension PROJECT NO: GA0624/2018 LOCATION: Footprint of Proposed Extension</p>	<p>HOLE No: TH4 LATITUDE: 26°57'11.0"S LONGITUDE: 29°14'38.0"E</p> <p style="text-align: right; font-size: small;">Sheet 1 of 1</p>
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Depth		Description	
		<i>Present Ground Surface</i>	
	0.00	CLAYEY GRAVELLY SAND - FILL Dry, brown to brownish orange, medium dense, intact, fine to medium grained; CLAYEY GRAVELLY SAND - Fill.	
	0.20	SANDY CLAYEY SILT - FILL Slightly moist, brown with grey blotches, medium dense, slightly shattered; SANDY CLAYEY SILT - Fill with concrete fragments.	
0,5	0.40	SANDY CLAY SILT Slightly moist, dark brown, firm, shattered and slickensided; SANDY CLAY SILT - Colluvium with some fine gravel.	
	0.70	SANDY CLAY SILT Slightly moist, greenish olive brown with white blotches, firm, slightly shattered to shattered; SANDY CLAY SILT - Residual.	
1,0	1.20	Soft rock; SILTSTONE Khaki olive to greenish olive, completely to highly weathered, closely to medium jointed, fine grained, soft rock; SILTSTONE.	
	1.30	End of log	


<p>NOTES:</p> <ol style="list-style-type: none"> 1: End of hole at 1.3m 2: Slow manual excavation from 1.2m 3: No refusal 4: No sample obtained 5: No groundwater encountered 	<p style="text-align: center;">Ground Africa Consulting Engineers</p> <p>PO Box 926 26 John Ross Avenue Eshowe, KZN Eshowe, KZN 3815 3815</p> <p>Tel: +27 35 474 7949 Fax: +27 86 621 7160 Email: fcvolbrecht@groundafrica.co.za</p>
<p>EXCAVATION METHOD: Manual Excavation DATE PROFILED: 10/30/2018 PROFILED BY: NB CHECKED BY: FCV</p>	

	<h3 style="margin: 0;">TRIAL HOLE PROFILE</h3> <p>CLIENT: TLOU Integrated Tech PROJECT: Standerton Labour Centre Extension PROJECT NO: GA0624/2018 LOCATION: Proposed Garage</p>	<p>HOLE No: TH5 LATITUDE: 26°57'10.0"S LONGITUDE: 29°14'37.8"E</p> <p style="text-align: right; font-size: small;">Sheet 1 of 1</p>
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Depth		Description	
		<i>Present Ground Surface</i>	
	0.00	BRICK PAVERS	
	0.08	BEDDING SAND	
	0.10	BASE COURSE Dry, pale olive brown with grey blue speckles, dense, intact; crushed aggregate with a fine to medium grained SILTY SAND Matrix - Base Course.	
	0.30	SUB BASE Slightly moist, orange with white speckles, dense, intact; weathered dolerite (10mm to 80mm) with a fine grained CLAYEY SILTY SAND Matrix - Sub Base.	
0,5	0.50	SANDY CLAYEY SILT - FILL Slightly moist, brown with black blotches, medium dense, intact to slightly shattered; SANDY CLAYEY SILT - Fill with roots.	
	0.70	SANDY CLAY SILT Slightly moist, dark brown, firm, shattered and slickensided; SANDY CLAY SILT - Colluvium with some fine gravel.	
	0.90	SANDY CLAY SILT Slightly moist, greenish olive brown, firm, slightly shattered to shattered; SANDY CLAY SILT - Residual.	
1,0	1.20	SANDY CLAY SILT Slightly moist, khaki olive with white speckles, firm, slightly shattered to shattered; SANDY CLAY SILT - Residual.	
	1.40	Soft rock; SILTSTONE Greenish olive to dark greenish olive with orange staining, completely to highly weathered, closely to medium jointed, fine grained, soft rock; SILTSTONE.	
1,5	1.60		
		End of log	

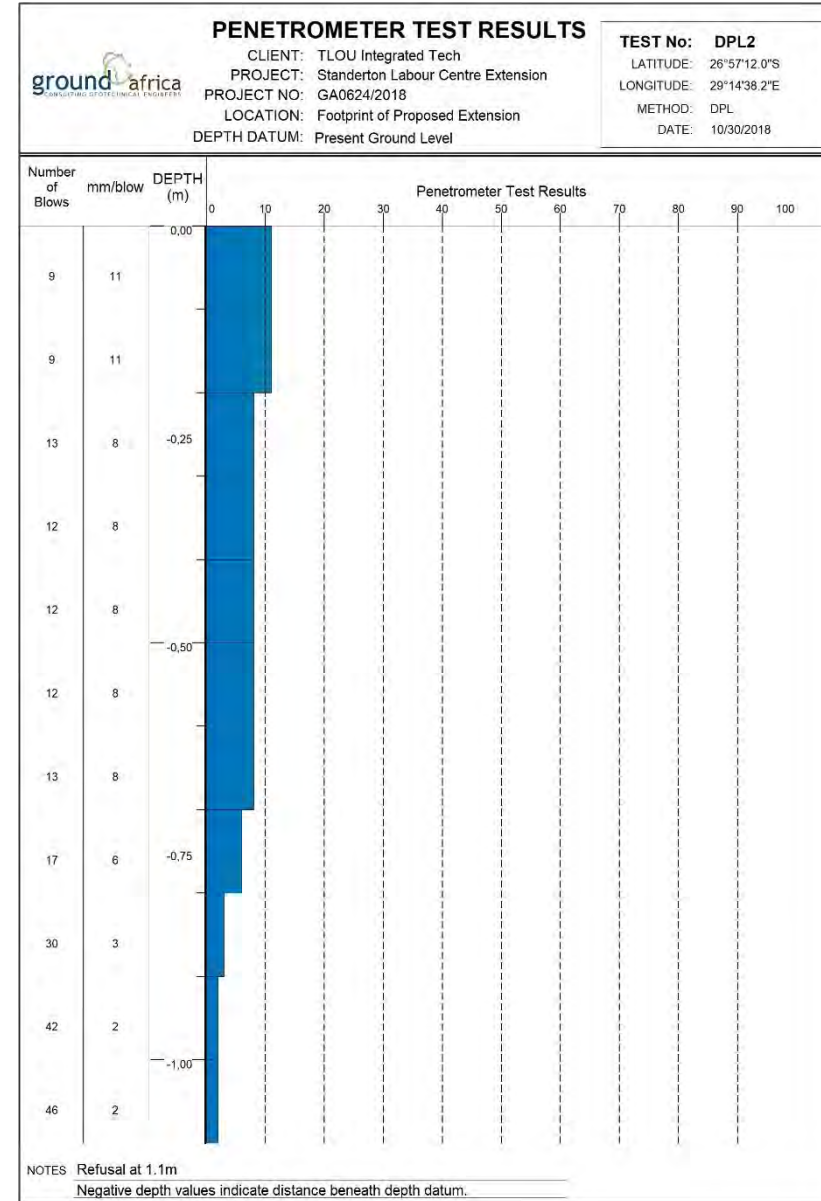
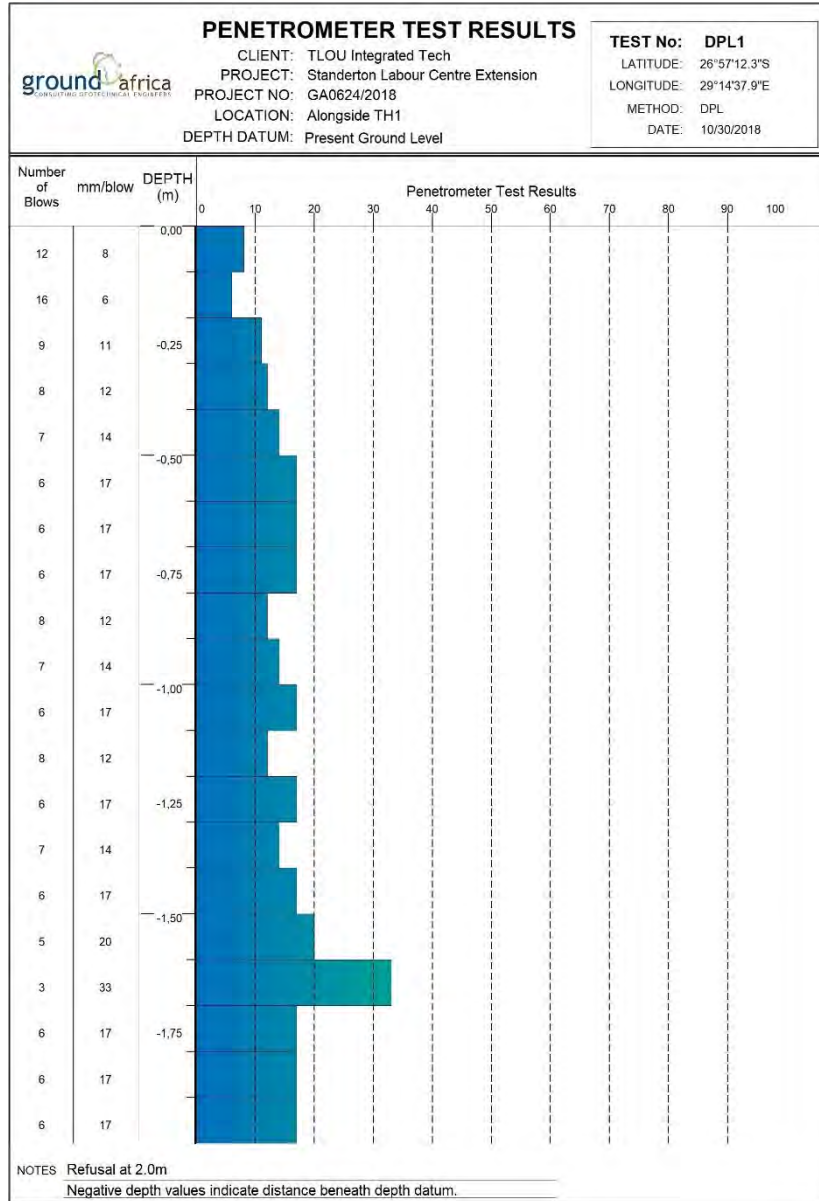
<p>NOTES:</p> <ol style="list-style-type: none"> 1: End of hole at 1.6m 2: Slow excavation from 1.4m 3: No refusal 4: No sample obtained 5: No groundwater encountered 	<p style="text-align: center;">Ground Africa Consulting Engineers</p> <p>PO Box 926 26 John Ross Avenue Eshowe, KZN Eshowe, KZN 3815 3815</p> <p>Tel: +27 35 474 7949 Fax: +27 86 621 7160 Email: fcvolbrecht@groundafrica.co.za</p>
<p>EXCAVATION METHOD: Manual Excavation DATE PROFILED: 10/30/2018 PROFILED BY: NB CHECKED BY: FCV</p>	

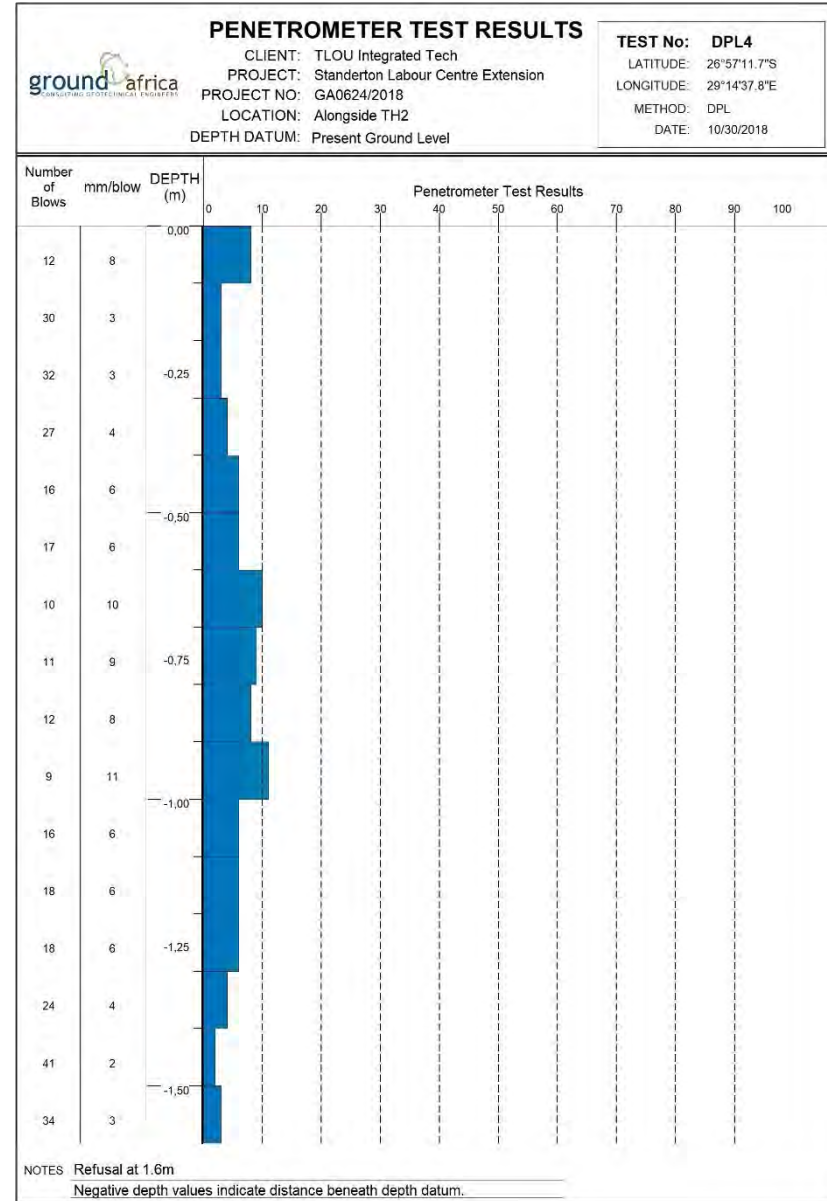
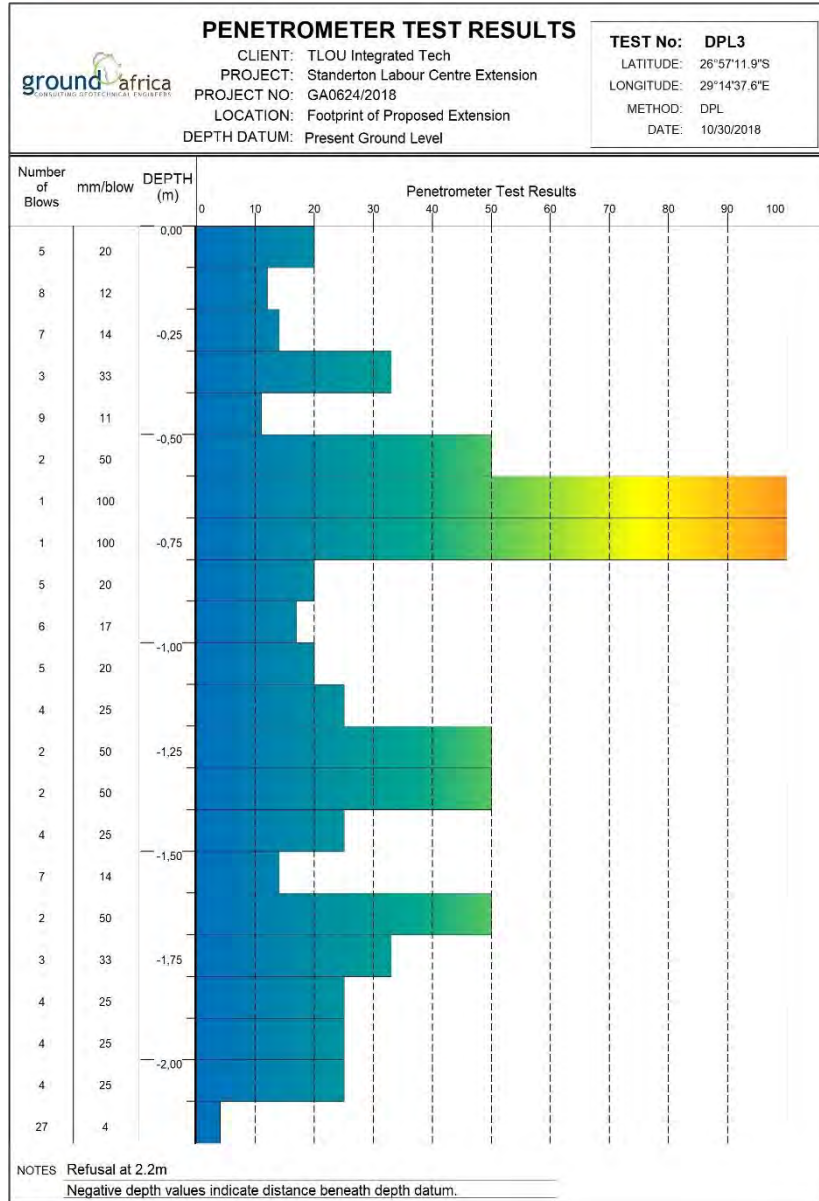
	<h3 style="margin: 0;">TRIAL HOLE PROFILE</h3> <p style="margin: 0;">CLIENT: TLOU Integrated Tech PROJECT: Standerton Labour Centre Extension PROJECT NO: GA0624/2018 LOCATION: Existing Structure</p>	<p>HOLE No: TH6 LATITUDE: 26°57'09.9"S LONGITUDE: 29°14'37.6"E</p> <p style="text-align: right; font-size: small;">Sheet 1 of 1</p>
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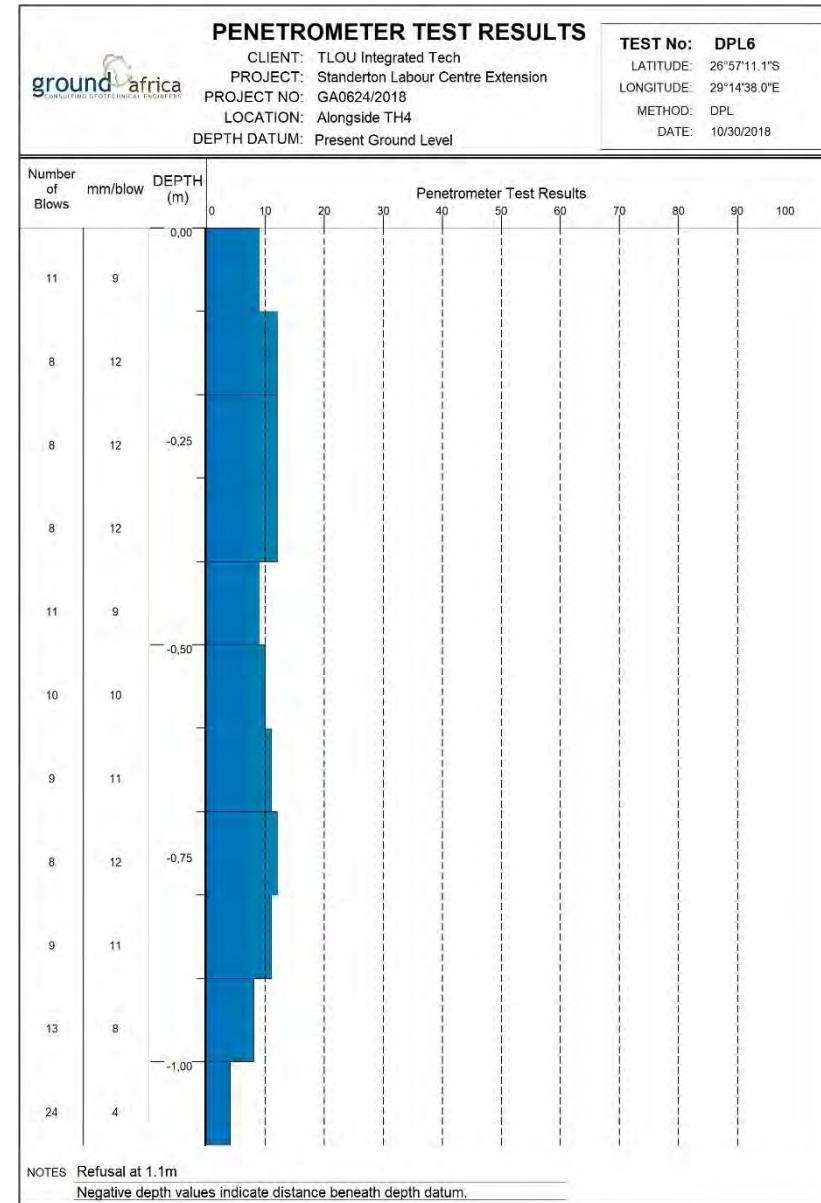
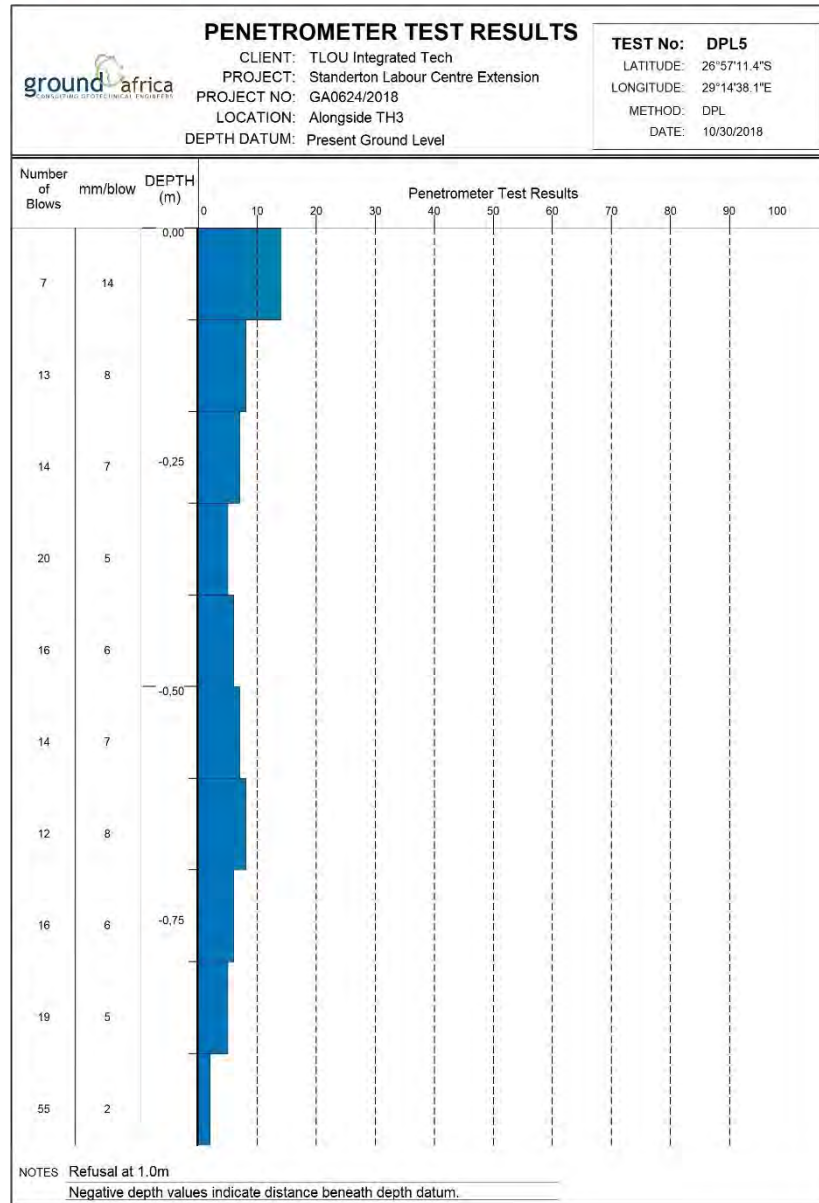
Depth		Description	
		<i>Present Ground Surface</i>	
	0,00	BRICK PAVERS	
	0,08	BEDDING SAND	
	0,16	BASE COURSE	
	0,20	Dry, pale olive brown with grey blue speckles, dense, intact; crushed aggregate with a fine to medium grained SILTY SAND Matrix - Base Course.	
	0,40	CONCRETE APRON Concrete apron underlain by old concrete v-drain.	
0,5	0,80	GRAVELLY CLAYEY SILT - FILL Slightly moist, brownish orange to brown with white blotches, medium dense, intact; GRAVELLY CLAYEY SILT - Fill with roots and concrete fragments.	
	1,00	SANDY CLAY SILT Slightly moist, dark brown, firm, shattered and slickensided; SANDY CLAY SILT - Colluvium with some fine gravel.	
1,0	1,40	SANDY CLAY SILT Slightly moist, greenish olive with khaki orange blotches, firm, slightly shattered; SANDY CLAY SILT - Residual.	
	1,60	SANDY CLAY SILT Slightly moist, khaki olive, firm, slightly shattered to shattered; SANDY CLAY SILT - Residual.	
1,5	1,70	Soft rock; SILTSTONE Greenish olive to dark greenish olive with orange staining, completely to highly weathered, closely to medium jointed, fine grained, soft rock; SILTSTONE.	
		End of log	

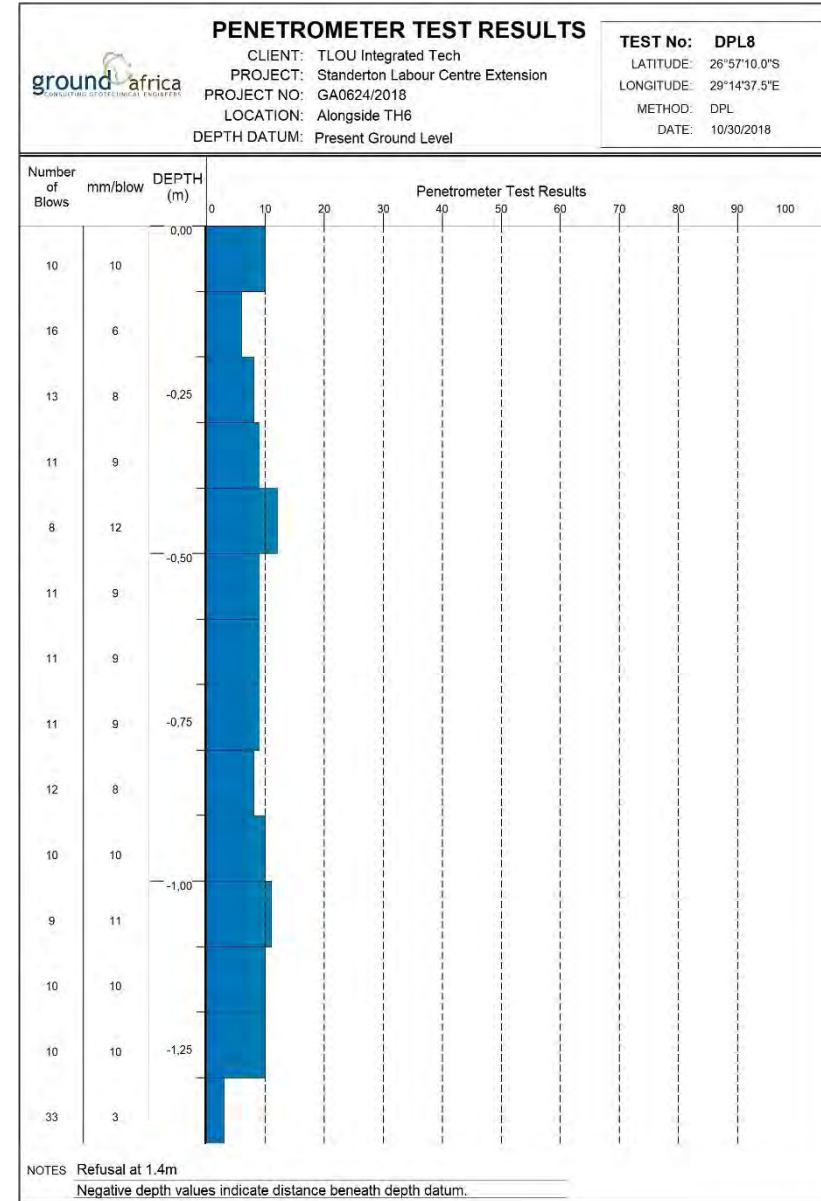
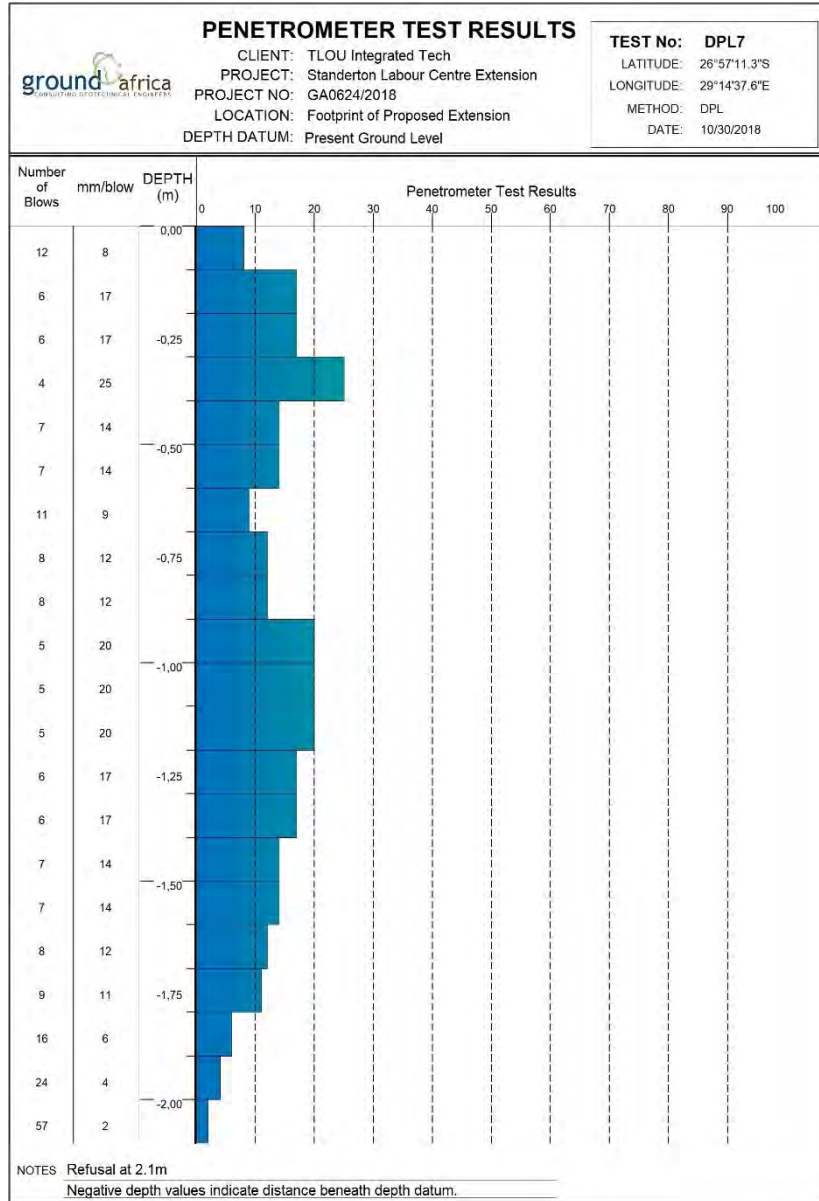
<p>NOTES:</p> <ol style="list-style-type: none"> 1: End of hole at 1.7m 2: Hand auger commenced at 1.3m 3: Refusal at 1.7m 4: No sample obtained 5: No groundwater encountered 6: Foundation invert level at 1.15m 	<p style="text-align: center;">Ground Africa Consulting Engineers</p> <p>PO Box 926 26 John Ross Avenue Eshowe, KZN Eshowe, KZN 3815 3815</p> <p>Tel: +27 35 474 7949 Fax: +27 86 621 7160 Email: fcvolbrecht@groundafrica.co.za</p>				
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APPENDIX C
Dynamic Penetrometer Light Test Results









APPENDIX D
Laboratory Test Results

SOILCO MATERIALS INVESTIGATIONS (PTY) LTD



CIVIL ENGINEERING MATERIALS TESTING LABORATORY

Reg. No. : 1965 / 009585 / 07

NOOITGEDAGHT FARM - LOUWSBURG ROAD - P.O.BOX 761 VRYHEID 3100 KWAZULU - NATAL

TELEPHONE : 034 982 6012 TELEFAX : 034 982 6013 email : soilco@vhd.dorea.co.za

Client : Ground Africa Consulting

Job Card No : 218507

Project : GA0624/2018 Standerton, Mpumalanga

Date Received : 2018-10-31

Date Tested : 2018-11-02 to 2018-11-03

Sampling Process : - Client

Date Reported : 2018-11-05

HYDROMETER ANALYSIS TEST REPORT

Laboratory No.	V2172				
Field No.	ST1				
Position in Field	TH2				
Depth (mm)	1200				
Material Description	Greenish Olive Brown with White Blotches - Residual				
Stabilising Agent	Natural				

Sieve Analysis (Wet Preparation) SANS 3001 : GR 1

Sieve Aperture	75.0 mm				
	63.0 mm				
	50.0 mm				
	37.5 mm				
	28.0 mm				
	20.0 mm				
	14.0 mm	100			
	5.0 mm	97			
	2.0 mm	94			
	0.425 mm	84			
0.075 mm	81				

Hydrometer Analysis (ASTM - D422)


Sieve Aperture	0.060 mm	74			
	0.050 mm	72			
	0.026 mm	71			
	0.015 mm	62			
	0.010 mm	54			
	0.0074 mm	47			
	0.005 mm	42			
	0.0036 mm	37			
	0.0020 mm	35			
	0.0015 mm	34			

Soil Mortar Analysis SANS 3001 : GR 1

Coarse Sand	%	11			
Fine Sand	%	11			
Silt	%	41			
Clay	%	38			

Atterberg Limits SANS 3001 : GR 10 - GR 12

Liquid Limit	%	47			
Plasticity Index	%	21			
Linear Shrinkage	%	10.6			
Equivalent PI	%	18			
Classification (Group Index)		A-7-6 (14)			

For Soilco :  Technical Signatory



SOILCO MATERIALS INVESTIGATIONS (PTY) LTD
CIVIL ENGINEERING MATERIALS TESTING LABORATORY

Reg. No. : 1965 / 009585 / 07

NOOITGEDAGHT FARM - LOUWSBURG ROAD - P.O.BOX 761 VRYHEID 3100 KWAZULU - NATAL
TELEPHONE : (034) 982 6012 TELEFAX : (034) 982 6013 email : soilco@vhd.dorea.co.za

Client : Ground Africa Consulting

Job Card No. : 218507

Project : GA0624/2018 Standerton, Mpumalanga

Date Received : 2018-10-31

Date Tested : 2018-11-02 to 2018-11-03

Sample Delivered by : Client

Date Reported : 2018-11-05

Sample Number : V2172

Field or Pit Number : ST1

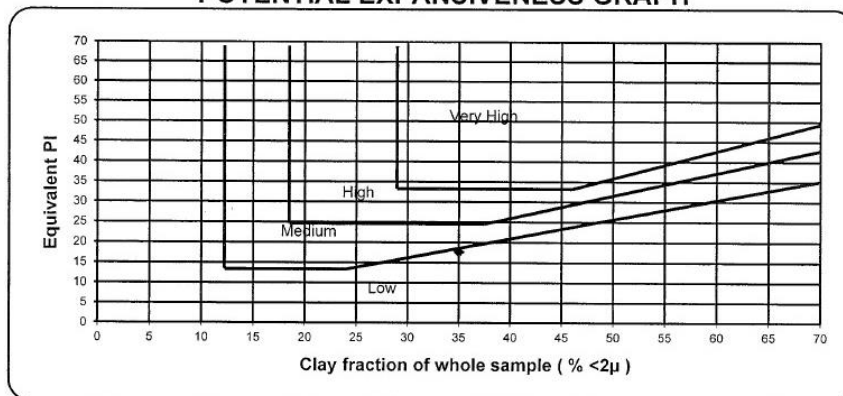
Position in field : TH2

Depth (mm) : 1200

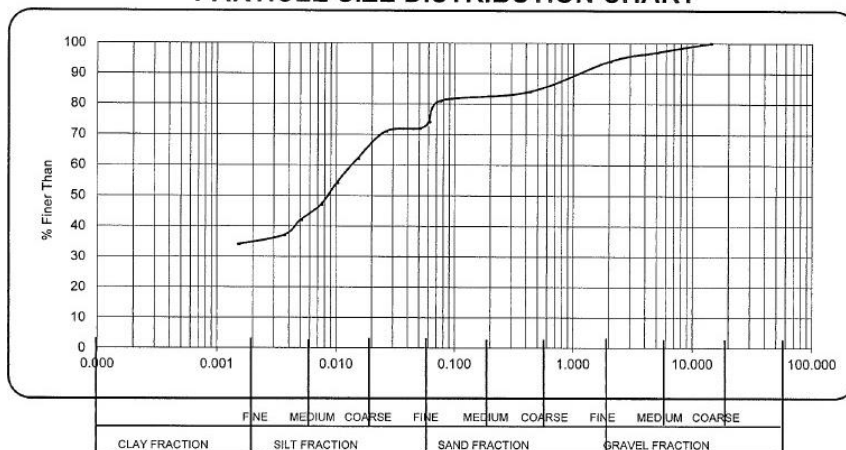
Sample Description : Greenish Olive Brown with White Blotches - Residual

Equivalent PI : 17.64 ^{TH2} Clay fraction of whole sample (% <math><2\mu</math>) : 35

POTENTIAL EXPANSIVENESS GRAPH



PARTICLE SIZE DISTRIBUTION CHART



For Soilco : Technical Signatory