

PROVINCE OF THE NORTHERN CAPE

DEPARTMENT OF ROAD AND PUBLIC WORKS



the dr&pw

Department:  
Roads and Public Works  
NORTHERN CAPE PROVINCE  
REPUBLIC OF SOUTH AFRICA

PROCUREMENT DOCUMENTS  
FOR  
TSHWARAGANO DISTRICT HOSPITAL - PHASE 1  
FOR  
DEPARTMENT OF HEALTH

**CLIENTS REPRESENTATIVE**

Mr. S. Kumalo

Tebogo Leon Tume Complex  
9 – 11 Stokroos Street  
Square Hill Park  
KIMBERLEY, 8301

**Email:** skumalo@vodamail.co.za  
**Tel:** 053 839 2100

**PRINCIPAL AGENT**

HOSPITAL DESIGN GROUP

57 Warden Street  
HARRISMITH  
9880

**Email:** braam@hdg.co.za  
**Tel:** 058 622 3942

**AGENT (1)**

**Architects**

HOSPITAL DESIGN GROUP  
57 Warden Street  
Harrismith  
9880

**Email:** braam@hdg.co.za  
**Tel:** 058 622 3942

**AGENT (2)**

**Quantity Surveyor**

Koor Dindar Mothei  
59 Jacobus Smit Street  
Royldene, 8301  
Kimberley

**Email:** bonakelo@kdm.co.za  
**Tel:** 053 832 1861

**BID NR:** DRPW 003/2023  
**CLOSING DATE:** 05 SEPTEMBER 2023  
**CLOSING TIME:** 11:00

**BIDDER'S NAME :** .....

## **REFERENCED INDEX TO PARTS OTHER THAN BILLS OF QUANTITIES**

The following index has been included for ease of paginating the document.

FORM OF OFFER AND ACCEPTANCE .....	2
PART T1: TENDERING PROCEDURES.....	9
T1.1- Notice and Invitation to Tender.....	10
Notice and invitation to tender.....	11
T 1.2 - Tender Data .....	14
T1.2- TENDER DATA .....	15
PART T2: RETURNABLE DOCUMENTS.....	26
T2.1- List of Returnable Documents .....	27
Resolution of Board of Directors .....	29
Resolution of Board of Directors to Enter into Consortia or Joint Ventures.....	31
Special Resolution of Consortia or Joint Ventures.....	34
Schedule of Proposed Subcontractor .....	38
Capacity of Tenderer.....	40
Preference Certificate .....	44
Site Inspection Meeting Certificate .....	50
Declaration of Interest.....	52
Record of Addenda to Tender Documents .....	56
Particulars of Electrical Contractor.....	58
SPECIAL CONDITIONS OF TENDER .....	60
Local Content Declaration.....	63
DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS.....	64
Compulsory Enterprise Questionnaire .....	73
PART C1 : CONTRACT DATA .....	77
Contract Data: JBCC 2000 Principal Building Agreement.....	79
Fixed Construction Guarantee – JBCC.....	94
Variable Construction Guarantee – JBCC .....	97
PART C3: SCOPE OF WORKS.....	101
Scope of Works – JBCC .....	102
Health and Safety Specification .....	104
PART C4: SITE INFORMATION.....	112
Site Information – JBCC.....	114
C2.2- Bills of Quantities.....	118

## FORM OF OFFER AND ACCEPTANCE

## FORM OF OFFER AND ACCEPTANCE

### OFFER

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

#### TSHWARAGANO DISTRICT HOSPITAL - PHASE 1

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 OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS:**

<b>Rand (in words):</b>	
<b>Rand in figures:</b>	<b>R</b>

**VAT IS TO BE INCLUDED EVEN IF THE TENDERER IS A NON VAT VENDOR**

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: .....	<b>OR</b>	Natural Person or Partnership: ..... ..... Whose Identity Number(s) is/are: ..... ..... Whose Income Tax Reference Number is/are: .....
-------------------------------------------------------------------------------------------------------------------------------------------------------	-----------	--------------------------------------------------------------------------------------------------------------------------------------------------------------

**AND WHO IS** (if applicable):

Trading under the name and style of: .....
--------------------------------------------

**AND WHO IS:**

Represented herein, and who is duly authorised to do so, by:  Mr/Mrs/Ms: ..... In his/her capacity as: .....	<b>Note:</b> <b>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.</b>
-----------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**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) ..

**(N.B.: Separate Offer and Acceptance forms are to be completed for the main and for each alternative offer)**

**SECURITY OFFERED:**

- (a) the Tenderer accepts that in respect of contracts from R 500 000 and up to R 1 million, a surety of 2% 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 R 500 000, 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) **(DPW 10.3)** Yes  No
- (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

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. .....
Fax No .....	Other contact No. .....
Postal address: .....	
Main or Principal Place of Business: E-mail Address : .....	
Registered Place of Business:	

.....
Banker ..... Branch.....
Registration No of Tenderer at Department of Labour .....
CIDB Registration Number: (Attached copy of certificate) .....
CSD Number:.....SARS Pin.....

## 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 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
- 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 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 one week 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, or if delivered by telefax, one working day after transmission, or if delivered by email, one working day after transmission.

**For the Employer:**

Name of signatory	Signature	Date

<b>Name of Organisation:</b>	DEPARTMENT OF ROADS AND PUBLIC WORKS
<b>Address of Organisation:</b>	Tebogo Leon Tume Complex 9-11 Stokroos Street Square Hill Park KIMBERLEY, 8301

**WITNESSED BY:**

Name of witness	Signature	Date

## Schedule of Deviations

<b>1.1.1. Subject:</b>
<b>Detail:</b>
<b>1.1.2. Subject:</b>
<b>Detail:</b>
<b>1.1.3. Subject:</b>
<b>Detail:</b>
<b>1.1.4. Subject:</b>
<b>Detail:</b>
<b>1.1.5. Subject:</b>
<b>Detail:</b>
<b>1.1.6. Subject:</b>
<b>Detail:</b>

By the duly authorized 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.

## THE TENDER

## PART T1: TENDERING PROCEDURES

## T1.1- Notice and Invitation to Tender

# Notice and invitation to tender

## THE DEPARTMENT OF ROADS & PUBLIC WORKS INVITES TENDERS FOR:

Project Title:	TSHWARAGANO DISTRICT HOSPITAL - PHASE 1		
Bid No:	DRPW 003/2023	Closing Time:	11:00
Closing Date:	05 SEPTEMBER 2023	Validity Period:	90 Days

<b>Tenderers should have a CIDB contractor grading of</b>	<b>7 GB</b>
-----------------------------------------------------------	-------------

<b>RESPONSIVENESS CRITERIA</b>	
√	Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submission, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered for the specified <b>CLASS and RANGE</b> of construction works are eligible to submit tenders.
√	<b>Joint ventures are eligible to submit tender provided that:</b> <ol style="list-style-type: none"> <li>1. every member of the joint venture is registered with the CIDB</li> <li>2. The lead partner has a contractor grading designation one grade lower in the value or higher as indicated above; and</li> <li>3. The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for this project.</li> <li>4. A Joint Venture Agreement <u>must</u> be submitted with the tender in the case of a joint venture offer.</li> </ol>
√	Tender offer must be properly received on the closing date and time specified on the invitation, fully completed and signed in ink (All as per Standard Conditions of Tender).
√	Submission of applicable: 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.
√	Submission of (NCP 4) DECLARATION OF INTEREST.
√	Submission of other compulsory returnable schedules / documents as per LIST OF RETURNABLE DOCUMENTS.
√	Submission of SITE INSPECTION CERTIFICATE as proof for attendance of compulsory site meeting.
√	Submission of PRICED BILL OF QUANTITIES WITH THE TENDER
√	<b>No bidder or any of its consortium/joint venture members may have an interest in any of the other bidder/joint venture/consortium participation in this bid." Bidders may be disqualified should such be found in your bid submission.</b>

Tender will be evaluated according to the price and specific goals:

<p>The 80/20 system for requirements with a Rand value of up to R50 000 000; OR</p> <p>The 90/10 system for requirements with a Rand value above R50 000 000.</p> <p>Where the financial value inclusive of VAT of one or more responsive tenders received equals or is less than R 50 000 000, the 80/20 system shall be applicable.</p> <p>Where the financial value inclusive of VAT of all responsive tenders received has a value in excess of R 50 000 000, the 90/10 system shall be applicable.</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Price / Preference / Functionality:				
Requirement	≤ R50 000 000	> R50 000 000		
Price	80	90	Total must equal	100
Preference	20	10		
Functionality	0 of 80	0 of 90		

**Table1: Specific goals for the tender and points claimed are indicated per table below.**  
*(Note to organ of state: Where either the 90/10 or 80/10 goals point system is applicable, corresponding points must be indicated as such.*

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

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/10 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/10 system) (To be completed by the tenderer)
Enterprise with ownership of 51% or more by person/s who are black person/s		10		
Enterprise with ownership of 51% or more by person/s who are women		5		
Enterprise with ownership of 51% or more by person/s who are black youth		3		
Enterprise with ownership of 51% or more by person/s who are disabled		2		

collection of tender documents:

<b>DEPOSIT</b>	The document is available at <a href="http://www.etenders.gov.za">www.etenders.gov.za</a> as the department does not print out the document nor sell the document is payable and is required on collection of the tender documents.
<b>INSPECTION</b>	Compulsory Clarification Meeting – 22 AUGUST 2023 at 11H00 on site at Tshwaragano Hospital

Enquiries related to tender documents may be addressed to:

<b>Dept Project Leader:</b>	Mr. S. Kumalo	<b>Telephone no:</b>	053 839 2100
<b>Cell no:</b>		<b>Fax no:</b>	053 839 2291
<b>E-mail:</b>	skumalo@vodamail.co.za		

Deposit / RETURN of tender documents:

<b>POSTED TO</b>	<p>Tender document may be posted to:          THE HEAD OF SCM          DEPARTMENT OF ROADS AND PUBLIC WORKS          Tebogo Leon Tume Complex          9-11 Stokroos Street          Square Hill Park          KIMBERLEY, 8301</p> <p><b>ATTENTION:</b> Mr. V Sidumo          OR</p> <p>Tender documents may be posted in the tender box outside the main entrance:          Tebogo Leon Tume Complex          9-11 Stockroos Street          Square Hill Park          KIMBERLEY,8301</p>
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 (T 1. 2)	

## T 1.2 - Tender Data

## T1.2- TENDER DATA

The department of roads & public Works invites tender FOR:

Project Title:	TSHWARAGANO DISTRICT HOSPITAL - PHASE 1		
Bid No:	DRPW 003/2023	Closing Time:	11:00
Closing Date:	05 SEPTEMBER 2023	Validity Period:	90 days

CLAUSE NUMBER	DETAIL
	<p>The conditions of tender are the Standard Conditions of Tender as contained in Annexure F of the CIDB Standard for Uniformity in Construction Procurement as per Government Notice No 751 Published in Government Gazette No. 27831 of 22 July 2005 and as amended for 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 'F' in the above-mentioned Standard Conditions of Tender.</p>
F.1.1	The employer is the Government of the Republic of South Africa in its Northern Cape Provincial Government, represented by the Accounting Officer of the Northern Cape Department of Roads & Public Works.
F.1.2	<p>For this contract the single volume approach is adopted.</p> <p>This procurement document has been formatted and compiled under the headings for a single volume approach as contained in table 6 of the CIDB's "Standard Uniformity in Construction Procurement."</p> <p>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 including the Fully Priced Activity Schedule/ Bills of Quantities, signing the "Offer" section in the Form of Offer and Acceptance" and delivering the single volume procurement document back to the Department bounded up as it was when it was received.</p> <p>The single volume procurement document issued by the employer comprises the following:</p> <p><b>TENDER</b>  <b>Part 1: Tendering Procedures</b>            T1.1 – Tender notice and invitation to tender (Refer to index)            T1.2 – Tender data (Refer to index)</p> <p><b>Part 2: Returnable Documents</b>            T2.1 – List of returnable documents (Refer to index)            T2.2 - Returnable Schedules</p> <p><b>CONTRACT</b>  <b>Part 1: Agreement and Contract Data</b>            C1.1 – Form of offer and acceptance (Refer to index)            C1.2 – Contract data (Refer to index)            C1.3 – Form of Guarantee (Refer to index)</p> <p><b>Part 2: Pricing Data</b>            C2.1 – Pricing instructions (Refer to index)            C2.2 - Activity schedules / Bills of Quantities</p> <p><b>Part 3: Scope of Work</b>            C3 – Scope of work (Refer to index)</p> <p><b>Part 4: Site Information</b>            C4 – Site information (Refer to index)</p>

<b>F.1.4</b>	The employer's agent is:	
	Name	Mr. S. Kumalo
	Capacity	PROJECT LEADER
	Address	Tebogo Leon Tume Complex 9-11 Stokroos Street Square Hill Park KIMBERLEY, 8301
	Tel:	053 839 2100
	Fax	053 839 2291
	E-mail	skumalo@vodamail.co.za
<b>F.1.5.2</b>	Insert the following: "..... tender offers, <u>save for all tenders being non responsive</u> , re-issue a tender covering .....	
<b>F.2.1</b>	For eligibility refer to Notice and Invitation to Tender T1.1.	
	A contract will only be entered into with a tenderer who has in his employment management and supervisory staff satisfying the requirement of the scope of works for labour intensive competencies for supervisory and management staff – <i>NOT APPLICABLE</i> .	
	Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of Submissions in a <b>GENERAL BUILDING</b> class of construction, in the grading mentioned in the <b>Notice and Invitation to Tender (T1.1)</b> , are eligible to submit tenders.	
	Tender offers scoring less than a minimum of 75% in respect of the total evaluation points for quality will be regarded as non-responsive.	
<p><b>NOTE:</b>  <b>THIS SPECIAL CONDITIONS OF TENDER IS REGARDED AS A REPONSIVNESS CRITERIA, THUS FAILURE TO COMPLETE AND COMPLY WILL LEAD TO THE DISQUALIFICATION OF YOUR TENDER</b></p> <p><b><u>Individuals must be identified for each of the key personnel listed below.</u></b></p> <p>In order to be considered for an appointment in terms of this tender, the tenderer must have the Following key personnel who will be the single-point of accountability and responsibility for the management of the construction works in its employment at the close of tender. Alternatively, a signed undertaking from an organisation having the required personnel, stating that they will undertake the necessary work on behalf of the tenderer in terms of a sub-consultant agreement, will be acceptable.</p> <p><b>Key Personnel: Contracts Manager</b>                  Where the key personnel are no longer accessible to undertake the necessary work after the award of the tender, the contractor shall within a period of 10 working days replace the key personnel listed in T2.2d with a person with equivalent competencies and subject to approval by the employer. Such approval shall not be unreasonably withheld.</p> <p>A suitably qualified and experienced contracts manager who will be the single-point of accountability and responsibility for the management of the construction works and who possesses, as a minimum, either of the following qualifications and experience:</p> <p><b>A: Individual experience as table A1 clause F.2.1</b></p> <ul style="list-style-type: none"> <li>• A degree (NQF Level 7) in the built environment with a minimum of 10 years' experience</li> <li style="text-align: center;"><b>Or</b></li> <li>• A National Diploma/Advanced Certificate (NQF Level 6) in the built environment with a minimum of 15 years' experience</li> </ul> <p>B: Project experience as table A1 clause F.2.1                  The Curriculum Vitae of the contracts manager, must be submitted with the tender submission, appended to Schedule T2.2d. Bidders are referred to clause F.2.1 of this tender data for the requirements regarding</p>		

submission of certificates of qualifications of key personnel

**Key Personnel: Construction Manager/Supervisor**

Where the key personnel are no longer accessible to undertake the necessary work after the award of the tender, the contractor shall within a period of 10 working days replace the key personnel listed in T2.2e – Construction Manager/Supervisor with a person with equivalent competencies and subject to approval by the employer. Such approval shall not be unreasonably withheld.

A suitably qualified and experienced Construction Manager/Supervisor and who possesses as a minimum the following qualifications:

A: Individual experience as table A2 clause F.2. 1

- A Trade Certificate (NQF Level 4) in the built environment with a minimum of 10 years' experience

B: Project experience as table A2 clause F.2. 1

- The Curriculum Vitae of the Construction Manager/Supervisor must be submitted with the tender submission, appended to Schedule T2.2e. Bidders are referred to clause C.2.23.2 of this tender data for the requirements regarding submission of certificates of qualifications of key personnel.

**Key Personnel: SHEQ Officer**

Where the key personnel are no longer accessible to undertake the necessary work after the award of the tender, the contractor shall within a period of 10 working days 11 replace the key personnel listed in T2.2f – SHEQ Officer with a person with equivalent competencies and subject to approval by the employer. Such approval shall not be unreasonably withheld.

A suitably qualified and experienced SHEQ Officer and who possesses as a minimum the following qualifications:

A: Individual experience as Table A3 clause F.2. 1

- A Registration Certificate with SACPCMP as a Health and Safety Officer in the built environment with a minimum of 10 years' experience

B: Project experience as table A3 clause F.2. 1

- The Curriculum Vitae of the SHEQ officer must be submitted with the tender submission, appended to Schedule T2.2f. Bidders are referred to clause C.2.23.2 of this tender data for the requirements regarding submission of certificates of qualifications of key personnel.

**Bank Rating**

In order to be eligible for award in terms of this tender, tenderers must submit a bank rating from a recognized financial institution (not older than 3 months at tender closing date) which indicates that the bidder possesses the minimum following bank code;

- Bank rating of minimum Code C: Good for amount quoted if strictly in the way of business – Unlikely to commit themselves beyond their means

**Financial Statements**

In order to be eligible for award in terms of this tender, tenderers must submit signed audited statements of the last three years.

Bidders must take note of the following;

The amount of enquiry on the bank rating letter must be equal to the sum of the amount tendered (including VAT) or higher.

A tender shall not be evaluated further under the following conditions;

1.A bidder who fails to provide a bank rating letter.

- Bidders who fail to satisfy any of the above eligibility criteria contained in clause C.2.1 shall be deemed to be non-responsive and their bids shall not be considered further. Bidders shall not be provided a second opportunity by the employer to submit any information in relation to any of the above eligibility criteria where such information is not provided by the bidder, bound within the bid submission, on the date and time of the bid closing.

Replace Clarification with Compulsory Briefing.

For particulars regarding a pre-tender site inspection meeting, see Tender Notice and Invitation to Tender T1.1

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, the details of which may be obtained from the Employer's Agent.

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 12 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. 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.

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.

Alternative tender offer permitted: Yes  No

Replace sub-clause F.2.1 with the following;

Return all returnable documents to the employer after completing them in their entirety by writing in non-erasable black ink

Parts of each tender offer communicated on paper shall be submitted as an original, plus 1 (one) copy.

The tender shall be signed by a person duly authorized to do so. Tenders submitted by joint ventures of two or more firms shall be accompanied by the document of formation of the joint venture, in the form of a joint venture agreement, in which it is defined precisely the conditions under which the joint venture will function, its period of duration, the persons authorized to represent and obligate it, the participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. Failure to provide the joint venture agreement, bound with the tender submission, on the date and time of the closing of the bid, shall render the tender non-responsive.

The tender offer validity period is 90 days.

A tender may be rejected as non-responsive if the tenderer fails to provide any clarification requested by the employer within the time for submission stated in the employer's written request for such clarification. The clarification of a tender offer includes the provision of the priced bills of quantities (Part C2.2: Bills of Quantities).

The tenderer shall, when requested by the Employer to do so, submit the names of all management and supervisory staff that will be employed to supervise the Labour Intensive portion of the works together with satisfactory evidence that such staff members satisfy the eligibility requirements.

Access shall be provided for inspections, tests and analysis as may be required by the Employer refer to PW371  
Not a requirement.

#### **Certificates Confirming Educational Qualifications of Key Personnel**

Tenderers are required to submit certified copies of educational qualifications of key personnel. A certified copy is considered to be valid when the certification is less than three months old on the date of closing of bids. Failure to submit certified copies of key personnel qualifications will result in the bid being deemed non-responsive

#### **Letter of Good Standing**

Tender are required to submit, bound with the tender submission, a letter of good from the compensation commissioner indicating that the bidder is in good standing. Failure to submit will result in the bid not being evaluated further.

Notwithstanding any requests for confirmation of receipt of Addenda issued, the tenderer shall be deemed to have received such addenda if the employer can show proof of transmission thereof (or a notice in respect thereof) via electronic mail, facsimile or registered post.

Bidders will be considered non-responsive if, inter alia:

1. The bidder has failed to attend the compulsory briefing meeting and failed to submit a fully completed briefing session certificate; After the briefing session, a signed briefing certificate will be issued to all the bidders who attended the briefing session.
2. The bid is submitted by Telegraphic, telephonic, telex, facsimile (faxed) or email media or if the tender is submitted late.
3. The bidder does not comply with the eligibility criteria listed in F2.1 above;
4. The resolution for signatory is not attached to the tender submission on a company

- letterhead.
5. The bidder has failed to fully complete and sign SBD1, SBD4, SBD 6.2, Annex C, SBD8 & SBD9.
  6. The bidder failed to comply to TAX obligations at the award of the bid.

**Stage 1 Functionality**

Functionality of responsive bids submitted will be evaluated according to the predetermined criteria described below.

A bid will not be evaluated further if it fails to meet the minimum threshold of total 75 points out of maximum 100 points for functionality as prescribed in the following tables and a minimum of 50% per sub-section

	<b>FUNCTIONALITY CRITERIA</b>	<b>POINTS ALLOCATED</b>
A	Key personnel A1 Contracts Manager	25
B	Key personnel A2 Construction Manager/Supervisor	15
C	Key personnel A3 Site SHEQ officer	10
D	Experience	50
E	<b>TOTAL</b>	<b>100</b>

<b>A Key Personnel</b>		
<b>Points are allocated for required competencies and qualifications of allocated personnel for the project in consideration / Required key personnel are Contracts Manager, Construction Manager/ Supervisor and Site SHEQ Officer</b>		
<b>A1 Contract Manager</b>		
<b>Description of Criteria - Qualifications</b>	<b>Points</b>	<b>Total points</b>
Qualification : BTech/Degree in the Built Environment field of study as C.2.1.4 intender data	10	10
Qualification : National Diploma in the Built Environment field of study as C.2.1.4 in tender data	5	
The tenderer has failed to address the question and has not proved qualification of the proposed contract manager	0	
<b>Description of Criteria - Experiences</b>	<b>Points</b>	<b>Total points</b>
Five (5) or more projects. Contract management experience on projects with minimum value of R200 million each or above appointed as contract manager	15	15
Three (3) to Four (4) projects. Contract management experience on projects with minimum value of R200 million each or above appointed as contract manager	10	
One (1) to Two (2) projects. Contract management experience on projects with minimum value of R200 million each or above appointed as contracts manager	5	

The tenderer has failed to address the question and has not proved experience of the proposed contract manager	0	
<b>SUB-TOTAL A1</b>	<b>25</b>	
<b>A2 Construction Manager / Supervisor</b>		
<b>Description of Criteria - Qualifications</b>	<b>Points</b>	<b>Total points</b>
Qualification : Trade certificate in the Built Environment field of study as C.2.1.5 in tender data	5	5
The tenderer has failed to address the question and has not proved qualification of the proposed Construction Manager/Supervisor	0	
<b>Description of Criteria – Experiences</b>	<b>Points</b>	<b>Total points</b>
Five (5) or more projects. Construction management experience on projects with minimum value of R200 million each or above appointed as Construction Manager / Supervisor	10	10
Three (3) to Four (4) projects. Construction management experience on projects with minimum value of R200 million each or above appointed as Construction Manager/Supervisor	8	
One (1) to Two (2) projects. Construction management experience on projects with minimum value of R200 million each or above appointed as Construction Manager/Supervisor	4	
The tenderer has failed to address the question and has not proved experience of the proposed Construction Manager/ Supervisor	0	
<b>SUB-TOTAL A2</b>	<b>15</b>	
<b>A3 Site SHEQ Officer</b>		
<b>Description of Criteria - Qualifications</b>	<b>Points</b>	<b>Total points</b>
Qualification : A Registration Certificate with SACPCMP as C.2.1.6 in tender data	4	4
The tenderer has failed to address the question and has not proved qualification of the proposed SHEQ Officer	0	
<b>Description of Criteria - Experience</b>	<b>Points</b>	<b>Total points</b>
Five (5) or more projects. SHEQ experience on projects with minimum value of R100 million each or above appointed as Site SHEQ Officer	6	6
One (1) to Four (4) projects. SHEQ experience on projects with minimum value of R100 million each or above appointed as SHEQ Officer	3	
The tenderer has failed to address the question and has not proved experience of the proposed SHEQ Officer	0	
<b>SUB-TOTAL A3</b>	<b>10</b>	
<b>TOTAL A</b>		<b>50</b>

	<p>Stage 2 Price and Specific Goals</p> <p><i>Add the following:</i>          The financial offer will be scored using the following <b>Formula:</b></p> $P_s = 90 \left[ 1 - \frac{P_t - P_{min}}{P_{min}} \right]$ <p>where</p> <p><math>P_s</math> = Points scored for price of tender under consideration; <math>P_t</math> =          Price of tender under consideration; and</p> <p><math>P_{min}</math> = Price of lowest acceptable tender.</p> <p>A trust, consortium or joint venture will qualify for points for their BBB-EE status level as a legal entity, provided that the entity submits their BBB-EE status level certificate. A trust, consortium or joint venture will qualify for points for their BBB-EE status level as an unincorporated entity, provided that the entity submits their consolidated BBB-EE scorecard as if they were a group</p> <p>Bidders to fail to satisfy any of the above eligibility criteria in clause F.2.1 shall be determined to be non-responsive and their bids shall not be considered further. Bidders shall not be provided a second opportunity by the employer to submit any information in relation to any of the above eligibility criteria where such information is not provided by the bidder, bound within the bid submission, on the date of the bidding.</p>
<p><b>F .2.7</b></p>	<p>For particulars regarding A PRE-TENDER SITE INSPECTION MEETING, see Notice and Invitation to Tender T1.1</p>
<p><b>F .2.12</b></p>	<p>If a tenderer wishes to submit an own alternative 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 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 a contractual obligation of the tenderer, in the event that the alternative is accepted, to accept full responsibility and liability that the alternative offer complies in all respect with the Employer's standards and requirements.</p> <p>The modification Pricing Data must include an amount equal to 5% of the amount tenderer for the alternative offer to cover the Employer's cost of confirming the acceptability of the detailed design before it is constructed</p> <p>Alternative tender offer permitted: <b>NO</b></p>
<p><b>F .2.12</b></p>	<p>The EMPLOYERS ADDRESS FOR DELIVERY of tender offers and identification details to be shown on each tender offer package are as per Notice <b>and Invitation to Tender T1.1</b></p>
<p><b>F.2.13.6</b> <b>F .3.5</b></p>	<p><b><u>A two-envelope procedure is required:</u></b>  <b><u>Envelope 1: Bank Rating, Financial Statements and Functionality Criteria as clause F.2.1 above</u></b>  <b><u>Envelope 2: Northern Cape Form &amp; Offer, Bid Documents, etc.</u></b></p>

F.2.15	The <b>CLOSING TIME</b> for submission of tender offers is as per <b>Notice and Invitation to Tender T1.1</b>
F.2.16	The tender offer <b>VALIDITY PERIOD</b> is as per <b>Notice and Invitation to Tender T1.1</b>
F.2.18	The tenderer will be required to submit a fully Priced Bill / Lump Sum tender document, with tender closing.
F.2.19	Access shall be provided for inspection, tests and analysis as may be required by the Employer.
F.2.22	Not a requirement.
F.3.4.1 F.3.4.2.	The location for opening of the tender offers, immediately after closing time thereof shall be at: Tebogo Leon Tume Complex 9-11 Stokroos Street Square Hill Park KIMBERLEY, 8301
F.3.11.1	<p>The procedure for the evaluation of responsive tender is</p> <ul style="list-style-type: none"> <li>• Method 1: Financial offer</li> <li>• Method 2: Financial offer and preferences</li> <li>• Method 3: Financial offer and quality</li> <li>• Method 4: Financial offer, quality and preferences</li> </ul> <p style="text-align: right;"><b>METHOD 4 - WILL apply for this tender.</b></p>
F.3.11	<p><b>Scoring the Financial Offer:</b></p> <p><math>P_s = NEP + W_c</math> (calculated separately for each tender offer)</p> <p>The score for quality and financial offer is to be combined, before the addition of the score for preference, as follows:</p> $W_c = W_3 \left( 1 + \frac{P - P_m}{P_m} \right)$ <p>where</p> <p><math>W_3</math> = The number of tender evaluation points for quality and financial offer and equals:</p> <ol style="list-style-type: none"> <li>1) 90 where the financial value inclusive of VAT of all responsive tenders received have a value in excess of R 50 000 000; or</li> <li>2) 80 where the financial value inclusive of VAT of one or more responsive tender offers equals or is less than R 50 000 000.</li> </ol> <p><math>P</math> = The price of the financial offer of the submission under consideration.</p> <p><math>P_m</math> = The price of the financial offer of the submission of the lowest acceptable tender.</p> <p><math>W_c</math> = Points allocated for price of tender under consideration.</p> <p><b>Scoring for Preferences:</b></p> <p>In terms of the Preferential Procurement Regulations 2011 preferences points for B-BBEE level of contribution are calculated on their B-BBEE Status Level of Contribution in the industry.</p> <p>Tender evaluation points will be awarded to tenderers who completes the preferencing schedule and who is found to be eligible for the preference claimed.</p> <p>Points for Direct Preference will be calculated according to the B-BBEE Status Level of Contribution of the tender under consideration as a per the points stated in the Notice and Invitation to Tender T1.1 and claimed in this form.</p> <p><b>Calculate Total tender Evaluation Points:</b></p> <p>The point calculated for price will be added to the point scored for preference for each individual tender offer.</p>

<p><b>F.3.13.1</b></p>	<p>Tender offers will only be accepted if:</p> <ol style="list-style-type: none"> <li>a) 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 12 of 2004) as a person prohibited from doing business with the public sector; and</li> <li>b) The tenderer has not:           <ol style="list-style-type: none"> <li>1. abused the Employer's Supply Chain Management System; or</li> <li>2. Failed to perform on any previous contract and has been given a written notice to this effect.</li> </ol> </li> </ol>
<p><b>F.3.18</b></p>	<p>Provide to the successful tender one copy of the signed contract document.</p>
<p><b>F.4</b></p>	<p><b>ADDITIONAL CONDITIONS OF TENDER</b></p> <p>The additional conditions of the tender are:</p>
<p><b>F.4.1</b></p>	<p><b>Invalid Tender</b></p> <p>Tenders shall be considered invalid and shall be endorsed and recorded as such in the tender opening record, by the responsible official who opened the tender, in the following circumstances:</p> <ol style="list-style-type: none"> <li>a) If the tender offer is not submitted on the Form of Offer and Acceptance bound into this tender document (formC1.1, Part C1: Agreements and Contract Data):</li> <li>b) If the Form of Offer and Acceptance has not been completed or has not been signed by the authorised representative of the tender</li> <li>c) If the Form of Offer and Acceptance is signed, but the name of the tenderer is not stated or is indecipherable</li> <li>d) If the tender offer is not completed in non-erasable ink.</li> </ol>
<p><b>F.4.2</b></p>	<p><b>Negotiations with preferred tenderers</b></p> <p>The Employer may negotiate the final terms of a contract with tenderers identified through a competitive tendering process as preferred tenderers provided that such negotiations:</p> <ol style="list-style-type: none"> <li>a) Does not allow any preferred tenderer a second or unfair opportunity;</li> <li>b) Is not to the detriment of any other tender; and</li> <li>c) Does not lead to a higher price than the tender as submitted.</li> </ol> <p>Minutes of any such negotiations shall be kept for record purposes</p>
<p><b>F.4.3</b></p>	<p><b>Letter of good standing (COIDA)</b></p> <p>The Tenderer shall submit to the Employer a letter of good standing (COIDA)</p>
<p><b>F.4.4</b></p>	<p><b>Claims arising after submissions of tender</b></p> <p>No claim for ant extra arising out of any doubt or obscurity as to the true intent and meaning of anything contained in the Conditions of Contract, Scope of Work and Pricing Data, will be admitted by the Employer after submission of any tender and the tenderer shall be deemed to have:</p> <ol style="list-style-type: none"> <li>1) Read and fully understood the whole text of the Contract Data, Scope of Work and Pricing Data and thoroughly acquainted himself with the nature of the works proposed and generally of all matters which may influence the Contract.</li> <li>2) Visited the site of any proposed works.</li> <li>3) Requested the Employer or his duly authorised agent to make clear the actual requirements of anything contained in the Scope of Works and Pricing Data, the extract meaning or interpretation of which is not clearly intelligible to the tenderer.</li> <li>4) Received any Addenda to the tender documents which have been issued in accordance with the Employer's Supply Chain Management Policy.</li> </ol>
<p><b>F.4.5</b></p>	<p><b>Imbalance in tendered rates</b></p> <p>In the event of tendered rates or lump sums being declared by the Employer to be unacceptable to it because they are either excessively low or high or not in proper balanced with other rates or lump sums, the tenderer may be required to produce evidence and advance arguments in support of the tendered rates or lump sums objected to. If, after submission of such evidence and any further evidence requested, the Employer is still not satisfied with the tendered rates or lump sums objected to, it may request the tenderer to amend these rates and lump sums along the lines indicated by it.</p> <p>The tenderer will then have the option to alter and/or amend the rates and lump sums objected to and such other amounts as are agreed on by the Employer, but this shall be done without altering the tender offer as</p>

	<p>tendered. Should the Tenderer fail to amend his Tender in a manner acceptable to the Employer, the Employer may reject the Tender.</p>
<p><b>F.4.6</b></p>	<p>The Employer shall not formally issue tender documents in electronic format as contemplated in C.2.12.2 and C.2.13.3 and shall only issue tender documents in hardcopy. An electronic version of the issued tender documents may be made available to the tenderer, upon written request in terms of this clause, subject to the following:</p> <ol style="list-style-type: none"> <li>(a) Electronic copies of the contract document, or parts thereof, will only be provided to tenderers who have been issued with the tender documents as contemplated in C.1.2 in hardcopy.</li> <li>(b) The electronic version shall not be regarded as a substitute for the issued tender documents.</li> <li>(c) The Employer shall not accept Tender submitted in electronic format. Tenderers may not complete and submit a printed copy of the electronic version of the tender document or part thereof. Only those Tender that have been completed on an issued hard copy tender document shall be considered.</li> <li>(d) The Employer accepts no responsibility or liability arising from the reliance on or use of the electronic version provided in terms of this clause. The Employer further does not guarantee that the electronic version corresponds with the issued tender document in all respects. Tenderers are alerted to the fact that electronic version of the tender documents may not reflect any notices or addenda that amend the tender document.</li> <li>(e) Any non-compliance with these provisions, including effecting any unauthorized alterations to the tender as contemplated in C2.11, shall render the tender invalid. The Employer reserves the right to take any action against such tenderer allowed in law including, in circumstances where the tender had already been awarded, the right to cancel the contract.</li> <li>(f) In requesting the electronic version of the tender document or parts thereof, the tenderer is deemed to have read, understood and accepted all of the above conditions.</li> </ol>
<p><b>F.4.7</b></p>	<p><b>Local Content and Production for Designated Sectors</b></p> <p>Only locally produced or locally manufactured steel products and components for the construction with stipulated minimum threshold of <b>100%</b> for local production and content will be considered. If the quantities of steel products and components for construction required cannot be wholly sourced in South Africa (RSA) based manufacturers and/or at the designated local content threshold of <b>100%</b>, bidders and procuring entities should obtain written authorization from DTI should there be a need to import and copy of this authorization letter must be submitted together with the bid document at the closing date and time.</p> <p>The exchange rate to be used for the calculation of the local production and content must be the exchange rate published by the South Africa Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid.</p> <p>A bid will be disqualified if:</p> <ul style="list-style-type: none"> <li>• The bidder fails to achieve the stipulated minimum threshold for the local production and content unless written exemption has been granted to the bidder by the DTI to bid at a lower content level.</li> <li>• Failure to indicate the minimum percentage (100% &amp; 90%) or not meeting minimum percentage for local content will automatically invalidate the bid from further consideration.</li> <li>• The Declaration Certificate for Local Content (SBD 6.2), the Annex C (Local Content Declaration: Summary Schedule) are not completed, duly signed, and submitted by the closing date and time of the bid</li> </ul> <p>Bidders may contact the Metals Fabrication, Capital and Rail Transport Equipment Unit within the <b>DTI</b> at telephone <b>012 394 1356</b> or Primary Minerals Processing and Construction Unit at telephone <b>012 394 5157</b></p>
<p><b>F.4.8</b></p>	<p><b>Subcontracting as a condition of Tender</b></p> <p>The successful bidder shall be required to subcontract a minimum 30% of the value of the Contract including labour and materials to EME'S and/or QSE'S enterprises determined in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act. These sub-contractors can be selected from the CIDB database who are registered on the CSD for the purposes of compliance. These sub-contractors are to have a minimum CIDB grading of 4GB. Bidders shall make allowance in their preliminaries for any additional costs required in this regard, for example, for the preparation of work packages, management of the subcontractors including site supervision, drafting and conclusion of the subcontract agreements, subcontractor OHS plan approvals, etc., that may arise due to this commitment.</p>
<p><b>F.4.9</b></p>	<p><b>Compliance with Occupation Health and Safety Act 1993</b></p> <p>Tenderers are to note the requirements of the Occupational Health and Safety Act (No. 85 of 1993) and the Construction Regulations 2014 issued in terms of Section 43 of the Act. The tenderer shall be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all the costs in compliance therewith. Tenderers are to note that the service provider is required to ensure</p>

	that all sub-contractor/sub-consultants or other engaged in the performance of this contract also comply with the above requirements.
--	---------------------------------------------------------------------------------------------------------------------------------------

## PART T2: RETURNABLE DOCUMENTS

## T2.1- List of Returnable Documents

## LIST OF RETURNABLE DOCUMENTS

### 1. RETURNABLE SCHEDULES REQUIRED FOR TENDER EVALUATION PURPOSES

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

Tender document name		Number of pages issued	Returnable document
T 2. 2-1	Resolution of Board of Directors (PA-15.1)	1 Page	<input checked="" type="checkbox"/> Yes
T2. 2-2	Resolution of Board of Directors to enter into consortia or JV's (PA-15.2)	2 Pages	<input checked="" type="checkbox"/> Yes
T2 2-3	Special Resolution of Consortia or JV's (PA-15.3)	3 Pages	<input checked="" type="checkbox"/> Yes
T2. 2-4	Schedule of proposed sub-contractors (DPW-15: EC)	1 Page	<input checked="" type="checkbox"/> Yes
T2. 2-7	Site Inspection Meeting Certificate (DPW-16: EC)	1 Page	<input checked="" type="checkbox"/> Yes
T2. 2-8	Declaration of Interest (PA-11)	3 Pages	<input checked="" type="checkbox"/> Yes
T2. 2-15	Compulsory Enterprise Questionnaire	2 Pages	<input checked="" type="checkbox"/> Yes
F.2.1	Bank Rating Letter (not older than 3 months at the close of tender)	Pages	<input checked="" type="checkbox"/> Yes
F.2.1	Past three years Audited financial Statements	Pages	<input checked="" type="checkbox"/> Yes
	Valid Letter of Good Standing	Pages	<input checked="" type="checkbox"/> Yes
	Declaration Certificate for Local Content (SBD 6.2)	Pages	<input checked="" type="checkbox"/> Yes
	Joint Venture Agreement (State percentage split)	Pages	<input checked="" type="checkbox"/> Yes
	Priced Bills of Quantities	Pages	<input checked="" type="checkbox"/> Yes

### 2. RETURNABLE SCHEDULES THAT WILL BE INCORPORATED INTO THE CONTRACT

Tender document name		Number of pages issued	Returnable document
T2. 2-6	Preference Certificate (SBD6.1)	6 Pages	<input checked="" type="checkbox"/> Yes
T2. 2-11	Record of Addenda to tender documents (DPW-21: EC)	1 Pages	<input checked="" type="checkbox"/> Yes
T2. 2-12	Particulars of Electrical Contractor (refer to index)	1 Page	<input checked="" type="checkbox"/> Yes

### 3. OTHER DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT

Tender document name		Number of pages issued	Returnable document
Form of construction guarantee (DPW 10.1 & DPW 10.3)		Pages	<input checked="" type="checkbox"/> Yes

## Resolution of Board of Directors

## 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:**

1. The Enterprise submits a Bid / Tender to the DEPARTMENT OF ROADS & 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 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.

	<b>NAME</b>	<b>Capacity</b>	<b>Signature</b>
1			
2			
3			
4			
5			
6			

**Note:**

1. \* Delete which is not applicable
2. **NB.** This resolution must be signed by all the Directors / Members / Partners of the Bidding Enterprise
3. 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

## Resolution of Board of Directors to Enter into Consortia or Joint Ventures

## 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:

3. 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 ROADS & 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)

4. \*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.

5. 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.

6. 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: \_\_\_\_\_ (code)

Fax number: \_\_\_\_\_ (code)

	<b>NAME</b>	<b>Capacity</b>	<b>Signature</b>
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

**Note:**

1. \* Delete which is not applicable
2. **NB.** This resolution must be signed by all the Directors / Members / Partners of the Bidding Enterprise
3. 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

**Joint ventures are eligible to submit tender provided that:**

- every member of the joint venture is registered with the CIDB
- The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for this project.
- A Joint Venture Agreement must be submitted with the tender in the case of a joint venture offer.

## Special Resolution of Consortia or Joint Ventures

## SPECIAL RESOLUTION OF CONSORTIA OR JOINT VENTURES

**RESOLUTION** of a meeting of the duly authorized 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)*

- 7. \_\_\_\_\_  
\_\_\_\_\_
- 8. \_\_\_\_\_  
\_\_\_\_\_
- 9. \_\_\_\_\_  
\_\_\_\_\_
- 10. \_\_\_\_\_  
\_\_\_\_\_
- 11. \_\_\_\_\_  
\_\_\_\_\_
- 12. \_\_\_\_\_  
\_\_\_\_\_
- 13. \_\_\_\_\_  
\_\_\_\_\_

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 ROADS & 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, authorized 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)

E-mail address : \_\_\_\_\_

Business address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (code)

Postal Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (code)

Telephone number: \_\_\_\_\_ (code)

Fax number: \_\_\_\_\_ (code)

	<b>NAME</b>	<b>Capacity</b>	<b>Signature</b>
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

**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 Bid
3. Should the number of Duly Authorised Representatives of the Legal Entities joining forces in this Bid exceed the space available above, additional names and signatures must be supplied on a separate page
4. Resolutions, duly completed and signed, from the separate Enterprises who participate in this Consortium/Joint Venture must be attached to the Special Resolution.

**Joint ventures are eligible to submit tender provided that:**

- every member of the joint venture is registered with the CIDB
- The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for this project.
- A Joint Venture Agreement must be submitted with the tender in the case of a joint venture offer.

## Schedule of Proposed Subcontractor

## SCHEDULE OF PROPOSED SUBCONTRACTORS

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 and/or with the CIDB (Construction Industry Development Board).

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

<b>Name of representative</b>	<b>Signature</b>	<b>Capacity</b>	<b>Date</b>

<b>Name of organisation:</b>	
------------------------------	--

## Capacity of Tenderer

## CAPACITY OF TENDERER

4. **WORK CAPACITY:** *(The Tenderer is requested to furnish the following particulars, attach additional pages if more space is required. Failure to furnish the particulars may result in the Tender being disregarded.)*

Skilled artisans employed		Unskilled employees employed	
Categories of artisans	Number	Categories of employees	Number

4.1. Provide full particulars of:

Machinery	Plant	Workshops

**5. PARTICULARS OF COMMITMENTS WHICH THE TENDERER HAS PREVIOUSLY COMPLETED AND PRESENTLY ENGAGED WITH:**

**5.1. Current projects:**

Project	Place (town)	Reference / Contact person	Contact Tel. No.	Contract amount	Contract period	Date of commencement	Scheduled date of completion
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							

5.2. Previous projects:

Project	Place (town)	Reference / Contact person	Contact Tel. No.	Contract amount	Contract period	Date of commencement	Scheduled date of completion	Actual date of completion
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Name of Tenderer	Signature	Date

## Preference Certificate

## NCP 6.1

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

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

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

#### 1. GENERAL CONDITIONS

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

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

#### 1.2 To be completed by the organ of state

*(delete whichever is not applicable for this tender).*

a) The applicable preference point system for this tender is the 80/20 preference point system.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

#### 1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
<b>Total points for Price and SPECIFIC GOALS</b>	<b>100</b>

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

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

#### 2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid

invitation, and includes all applicable taxes;

- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

### 3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

#### 3.1. POINTS AWARDED FOR PRICE

##### 3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \\ \mathbf{Ps = 80 \left( 1 - \frac{Pt - P_{min}}{P_{min}} \right)} & \mathbf{or} & \mathbf{Ps = 90 \left( 1 - \frac{Pt - P_{min}}{P_{min}} \right)} \end{array}$$

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmin = Price of lowest acceptable tender

#### 3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

##### 3.2.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \\ \mathbf{Ps = 80 \left( 1 + \frac{Pt - P_{max}}{P_{max}} \right)} & \mathbf{or} & \mathbf{Ps = 90 \left( 1 + \frac{Pt - P_{max}}{P_{max}} \right)} \end{array}$$

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmax = Price of highest acceptable tender

### 4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated

in the conditions of this tender:

4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
- (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

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

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Enterprise with ownership of 51% or more by person/s who are black person/s		10		
Enterprise with ownership of 51% or more by person/s who are women		5		
Enterprise with ownership of 51% or more by person/s who are black youth		3		
Enterprise with ownership of 51% or more by person/s who are disabled		2		

**DECLARATION WITH REGARD TO COMPANY/FIRM**

4.3. Name of company/firm.....

4.4. Company registration number: .....

4.5. TYPE OF COMPANY/ FIRM

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

[TICK APPLICABLE BOX]

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

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

..... <b>SIGNATURE(S) OF TENDERER(S)</b>	
<b>SURNAME AND NAME:</b>	.....
<b>DATE:</b>	.....
<b>ADDRESS:</b>	..... ..... ..... .....

## Site Inspection Meeting Certificate

## SITE INSPECTION MEETING CERTIFICATE

<b>Project title:</b>	TSHWARAGANO DISTRICT HOSPITAL - PHASE 1
-----------------------	-----------------------------------------

This is to certify that I, \_\_\_\_\_ representing  
 \_\_\_\_\_ in the company of  
 \_\_\_\_\_ visited the site on: .....

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 DEPT Representative or Project Leader	Signature	Date

Name of Project Manager	Signature	Date

## Declaration of Interest

**NCP4**

**BIDDER'S DISCLOSURE**

**1. PURPOSE OF THE FORM**

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

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

**2. Bidder's declaration**

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest<sup>1</sup> in the enterprise, employed by the state? **YES/NO**

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

Full Name	Identity Number	Name of State institution

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

2.2.1 If so, furnish particulars:  
 .....  
 .....

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

2.3.1 If so, furnish particulars:  
 .....  
 .....

---

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

**3 DECLARATION**

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

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium<sup>2</sup> will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of bidder

---

<sup>2</sup> 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.

## Record of Addenda to Tender Documents

## RECORD OF ADDENDA TO TENDER DOCUMENTS

14. I / We confirm that the following communications received from the DEPARTMENT OF ROADS & 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

15. I / We confirm that no communications were received from the **Error! Reference source not found.** before the submission of this tender offer, amending the tender documents.

Name of Tenderer	Signature	Date

## Particulars of Electrical Contractor

## PARTICULARS OF ELECTRICAL CONTRACTOR

We confirm that the **Electrical Contractor** contracted to construct are registered with the Electrical Contracting Board of SA, the Department of Employment and Labour and with the CDB (Construction Industry Development Board) in their class of construction.

**Name of Electrical Contractor:**

**Address:**

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

Name of Tenderer	Signature	Date

## **Special Conditions Of Contract For Subcontracting**

## SPECIAL CONDITIONS OF TENDER

**PROJECT:** TSHWARAGANO DISTRICT HOSPITAL - PHASE 1

**TENDER NO:** DRPW 003/2023

The conditions of tender are the Standard Conditions of Tender as contained in Annex C of Board Notice 423 of 2019 in Government Gazette No. 42622 of 8 August 2019, Construction Industry Development Board (CIDB) Standard for Uniformity in Construction Procurement. (See [www.cidb.org.za](http://www.cidb.org.za)) which are reproduced without amendment or alteration for the convenience of tenderers as an Annex to this Tender Data. The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies. The following variations, amendments and additions to the Standard Conditions of Tender as set out in the Tender Data below shall apply to this tender.

### **Add the following to clauses in Standard Conditions of Tender**

The employer's agent is Hospital Design Group Attention is drawn to the fact that verbal information, given by the Employer's agent during site visits/clarification meetings or at any other time prior to the award of the Contract, will not be regarded as binding on the Employer. Only information issued formally by the Employer in writing to Tenderers will be regarded as amending the Tender Documents

A competitive negotiation procedure will not be followed.

A two-stage system will not be followed.

## **SUBCONTRACTING**

---

### **SUBCONTRACTING**

**It is a special condition of this tender and the subsequent contract that would be awarded to the successful tenderer that:**

The tenderer / contractor should apply specific goals / objective criteria to advance designated groups in terms Contracting Participation Goals and Specification Goals (as per Regulation 2022) of empowerment which reads as follows:

*The successful tenderer must subcontract a minimum of 30% of the value of the contract (excluding VAT, provisional sums and budgetary allowances as well as contingencies and escalation) to and subcontracting conditions for Specific Goals (NCP6.1) must be Northern Cape Companies exclusive, sub-contracting 30% to QSE or EME which is 51% owned by black people living in townships, Northern Cape Province. These sub-contractors are to have a minimum CIDB grading of 4GB.*

For this reason, the following documentation must be submitted at the time of entering into the agreement between main contractor and subcontractors:

- certified B-BBEE certificates / sworn affidavits of the sub-contracting party
- original and valid tax clearance certificate of the sub-contracting party

- signed copy of the legal agreement between the main contractor and the subcontracting party,

*Only those subcontractors who are registered with the CIDB, or are capable of being so prior to the evaluation of their submissions, in a contractor grading designation determined in accordance with the sum tendered for the specific Class and Range of construction works are eligible to submit tenders.*

*CIDB registration is not applicable to Labour Only subcontractors.*

The targeted CIDB graded contractor levels of 4 and above will be applicable to this project.

It is a further requirement that these subcontractors are registered and active on the Central Supplier Database (CSD)

The following CIDB limits are proposed and must be 30% of the value/works of the project

CATEGORY OF GRADE	Amount maximum limit of
CIDB GRADE 4 GB	R6 000 000 VAT inclusive
CIDB GRADE 5 GB	R10 000 000 VAT inclusive
CIDB GRADE 6 GB	R20 000 000 VAT inclusive
CIDB GRADE 7 GB	R60 000 000 VAT inclusive

**Note to tenderers:**

A list of suppliers registered on a database approved by the National Treasury as per Regulation 9.3 will be given to successful tenderer. The tenderer is not limited to the list; however, it remains the responsibility of the Tenderer to verify the QSE or EME status of the Subcontractor with:

≥51% ownership by Black people living in rural or undeveloped areas which is Northern Cape Province. For this particular project, local will be confined firstly to the in the Northern Cape Province.

**Contract parameters**

Contract subcontracting goal applicable to the contract	..... %
Contract sum at time of award (exclusive of value added tax)	R .....
Less: provisional sums and budgetary allowances	R .....
Less: contingencies and escalation	R .....
<b>Net amount</b>	<b>R _____ (1)</b>



## Local Content Declaration

## DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (SBD 6.2)

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

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2011, 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) makes provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for bids 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 1286:211 as follows:

$$LC = [1 - \frac{x}{y}] * 100$$

Where:

- x is the imported content in Rand  
y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as indicated in paragraph 3.1 below.

**THE SABS APPROVED TECHNICAL SPECIFICATION NUMBER SATS 1286:2011 IS ACCESSIBLE ON [HTTP://WWW.DTI.GOV.ZA/INDUSTRIAL DEVELOPMENT/IP.JSP](http://www.dti.gov.za/industrial_development/ip.jsp) AT NO COST.**

- 1.6 A bid may be disqualified if this Declaration Certificate and Form L (Annex C, D and E) are not submitted as part of the bid documentation.

**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:**

Description of services, works or goods	Stipulated minimum threshold
<b>Steel value-added construction material products</b>	
Fabricated Structural Steel	100%
Joining/Connecting Components	100%
Frames	100%
Roof and Cladding	100%
Fasteners	100%
Wire Products	100%
Ducting and Structural Pipework	100%
Gutters, downpipes & launders	100%
<b>Primary steel construction material products</b>	
Plates (>4.5mm thick and supplied in flat pieces)	100%
Sheets (<4.5mm thick and supplied in coils)	100%
Galvanised and Colour Coated coils	100%
WireRod and Drawn Wire	100%
Sections (Channels, Angles, I-Beams and H-Beams)	100%
Reinforcing bars	100%
<b>Electrical cable material products</b>	
Low Voltage	90%
Low Cost Reticulation	90%
Medium & High Voltage	90%
ACR	90%

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

<b>YES</b>		<b>NO</b>	<i>Tick</i> applicable box
------------	--	-----------	----------------------------

3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the bid 08 December 2017.

The relevant rates of exchange information is accessible on [www.reservebank.co.za](http://www.reservebank.co.za).

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

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

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

4. Were the Local Content Declaration Templates (Annex C (Form A3.6), D and E) audited and certified as correct?

YES	NO	<i>Tick applicable box</i>

4.1 If yes, provide the following particulars:

- (a) Full name of auditor:  
 .....
- (b) Practice number: .....
- ..... (c) Telephone and cell number: .....
- (d) Email address:  
 .....

(Documentary proof regarding the declaration will, when required, be submitted to the satisfaction of the Accounting Officer / Accounting Authority)

- 5 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)**

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

IN RESPECT OF BID NO. ....

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

N.B.:

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 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.dti.gov.za/industrialdevelopment/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. **Declarations C, D and E, 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 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 Declarations 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 2 above)	...%
Local content %, as calculated in terms of SATS 1286:2011	...%

**IF THE BID IS FOR MORE THAN ONE PRODUCT, THE LOCAL CONTENT PERCENTAGES FOR EACH PRODUCT CONTAINED IN DECLARATION C SHALL BE USED INSTEAD OF THE TABLE ABOVE.**

**The local content percentage 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 Declarations 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:** .....

**DATE:** .....

**WITNESS No. 1:** .....

**DATE:** .....

**WITNESS No. 2:** .....

**DATE:** .....



**Annex D**

**Imported Content Declaration - Supporting Schedule to Annex C**

Tender No.	
Tender description:	
Designated Products:	
Tender Authority:	
Tendering Entity name:	
Tender Exchange Rate:	Pula

**Note: VAT to be excluded from all calculations**

EU R 9.00      GBP R 12.00

**A. Exempted imported content**

A. Exempted imported content				Calculation of imported content						Summary	
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
<b>Total exempt imported value</b>											

**This total must correspond with Annex C - C 21**

**B. Imported directly by the Tenderer**

B. Imported directly by the Tenderer				Calculation of imported content						Summary	
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
<b>Total imported value by tenderer</b>											



SATS 1286.2011

### Annex E

#### Local Content Declaration - Supporting Schedule to Annex C

(E1) Tender No.	
(E2) Tender description:	
(E3) Designated products:	
(E4) Tender Authority:	
(E5) Tendering Entity name:	

**Note: VAT to be excluded from all calculations**

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
	(E9) Total local products (Goods, Services and Works)		

(E10) <b>Manpower costs</b> (Tenderer's manpower cost)	
(E11) <b>Factory overheads</b> (Rental, depreciation & amortisation, utility costs, consumables etc.)	
(E12) <b>Administration overheads and mark-up</b> (Marketing, insurance, financing, interest etc.)	
(E13) <b>Total local content</b>	

**This total must correspond with Annex C - C24**

Signature of tenderer from Annex B \_\_\_\_\_  
 Date: \_\_\_\_\_

## Compulsory Enterprise Questionnaire

**6. Compulsory Enterprise Questionnaire**

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

**Attach to this form the most recent financial statements of the tendering entity.**

**Section 1: Name of enterprise:** .....

**Section 2: VAT registration number, if any:** .....

**Section 3: cidb registration number, if any:** .....

**Section 4: Particulars of sole proprietors and partners in partnerships**

Name*	Identity number*	Personal income tax number*

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

**Section 5: Particulars of companies and close corporations**

Company registration number .....

Close corporation number .....

Tax reference number .....

CSD Number.....

SARS Pin.....

**Section 6: Record in the service of the state**

Indicate by marking the relevant boxes with a cross, if any sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months in the service of any of the following:

- |                                                                                                |                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> a member of any municipal council                                     | an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999) |
| <input type="checkbox"/> a member of any provincial legislature                                | a member of an accounting authority of any national or provincial public entity                                                                                                            |
| <input type="checkbox"/> a member of the National Assembly or the National Council of Province | an employee of Parliament or a provincial legislature                                                                                                                                      |
| <input type="checkbox"/> a member of the board of directors of any municipal entity            | an employee or a member of board of directors of cidb                                                                                                                                      |
| <input type="checkbox"/> an official of any municipality or municipal entity                   |                                                                                                                                                                                            |

**If any of the above boxes are marked, disclose the following:**

Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

\*insert separate page if necessary

**Section 7: Record of spouses, children and parents in the service of the state**

Indicate by marking the relevant boxes with a cross, if any spouse, child or parent of a sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months been in the service of any of the following:

- |                                                                                                |                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> a member of any municipal council                                     | an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999) |
| <input type="checkbox"/> a member of any provincial legislature                                | a member of an accounting authority of any national or provincial public entity                                                                                                            |
| <input type="checkbox"/> a member of the National Assembly or the National Council of Province | an employee of Parliament or a provincial legislature                                                                                                                                      |
| <input type="checkbox"/> a member of the board of directors of any municipal entity            | an employee or a member of board of directors of CIDB                                                                                                                                      |
| <input type="checkbox"/> an official of any municipality or municipal entity                   |                                                                                                                                                                                            |

Name of spouse, child or parent	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

\*insert separate page if necessary

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

- i) authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- ii) confirms that neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
- iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;
- iv) confirms that I / we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and
- iv) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed

Date

Name

Position

Enterprise name

## THE CONTRACT

## PART C1 : CONTRACT DATA

## Contract Data: JBCC 2000 Principal Building Agreement

## CONTRACT DATA: JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 4.1 of March 2005)

### CONTRACT DATA

#### TSHWARAGANO DISTRICT HOSPITAL - PHASE 1

	<p>The Conditions of Contract are clauses 1 to 41 of the <b>JBCC</b> 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>
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<p><b>CONTRACT VARIABLES</b></p> <p><b>THE SCHEDULE</b></p> <p>The <b>schedule</b> contains all variables referred to in this document and is divided into part 1: contract data completed by the <b>employer</b> and part 2: contract data completed by the <b>contractor</b>. Part 1 must be completed in full and included in the tender documents. Both the part 1 and part 2 form part of this <b>agreement</b></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 <b>schedule</b>. Key cross reference clauses are italicized in <i>[ ]</i> brackets</p>
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>42.0</b>	<b>Part 1: Contract Data completed by the Employer:</b>
-------------	---------------------------------------------------------

<b>42.1</b>	<b>CONTRACTING AND OTHER PARTIES</b>
-------------	--------------------------------------

<b>42.1.1</b>	<p><b><u>Employer:</u></b></p> <p>Government of the Republic of South Africa Provincial Government, represented by the Accounting Officer</p> <p><b><u>Postal address:</u></b></p> <p>Tebogo Leon Tume Complex          9-11 Stockroos Street          Square Hill Park          KIMBERLEY,8301</p> <p>Tel: 053 839 2100          Fax: 053 839 2290 /1</p> <p><b><u>Physical address:</u></b></p> <p>Tebogo Leon Tume Complex          9-11 Stockroos Street          Square Hill Park          KIMBERLEY,8301</p>
<i>[1.2]</i>	

<p>42.1.2 [1.1, 5.1]</p>	<p>Principal Agent: <b>HOSPITAL DESIGN GROUP</b></p> <p>Agent's service: PRINCIPAL AGENT &amp; ARCHITECTURE</p> <p>Postal address: 57 Warden Street, Harrismith 9880</p> <p>Tel: 058 622 3942 Fax: N/A email: braam@hdg.co.za</p>
<p>[1.1]</p>	<p><u>Representative of the Employer:</u></p> <p>Project Leader : <b>Mr. S. Kumalo</b></p> <p>Postal address: Tebogo Leon Tume Complex 9-11 Stockroos Street Square Hill Park KIMBERLEY,8301</p> <p>Tel: <b>[053] 893 2100</b> Cell: Fax: <b>[053] 839 2290 /1</b></p>
<p>42.1.3 [1.1, 5.2]</p>	<p>Agent (1): <b>Koor Dindar Mothei</b></p> <p>Agent's service: <b>Quantity Surveyor</b></p> <p>Postal address:59 Jacobus Smit Street, Royldene, Kimberley, 8301</p> <p>Tel: <b>052 832 1861</b> Fax: <b>053 832 3375</b>          email: <b>bonakelo@kdm.co.za</b></p>
<p>42.1.3 [1.1, 5.2]</p>	<p>Agent (2):</p> <p>Agent's service:</p> <p>Postal address:</p> <p>Tel:</p> <p>email:</p>
<p>42.1.3 [1.1, 5.2]</p>	<p>Agent (3):</p> <p>Agent's service:</p> <p>Postal address:</p> <p>Tel: Fax:</p> <p>email:</p>

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

[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 type="checkbox"/> No <input checked="" 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.#]	4) Dispute resolution by <b>Adjudication</b>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
[26.1.2 #]	5) Extended <b>defects</b> liability period applicable to the following elements: <b>N/A</b>	

42.2.6 [15.3]	Period for the commencement of the <b>works</b> after the <b>contractor</b> takes possession of the <b>site</b> : Ten (10) <b>working days</b> .
------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

42.2.7 [24.3.1] [30.1]	For the <b>works</b> as a whole:  <b>Completion will be as follows:</b>  <b>The date for practical completion shall be 12 Months from the commencement date and the penalty per calendar day shall be R 10 000.00 for late completion.</b>
------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

42.2.8 [24.3.1] [28.1]	For the <b>works</b> in <b>sections</b> :  The date for <b>practical completion</b> from the <b>commencement date</b> and the <b>penalty per calendar day</b> : <b>NOT APPLICABLE</b>  Section 1: ..... .....  Section 2: <b>insert description as may be applicable</b>  <b>insert penalty amount</b>  Section 3: <b>insert description as may be applicable</b>  <b>insert penalty amount</b>  Section 4: <b>insert description as may be applicable</b>  <b>insert penalty amount</b>
------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

42.2.9 [1.2]	The <b>law</b> applicable to this <b>agreement</b> shall be that of the: <b>Republic of South Africa</b>
<b>42.3</b>	<b>INSURANCES</b>
42.3.1 [10.1 #, 10.2 # 12.1 #]	<p>Contract works insurance to be effected by the <b>contractor</b></p> <p><input checked="" type="checkbox"/> To the minimum value of the <b>contract sum</b> plus 10%          With a deductible not exceeding 5% of each and every claim</p> <p>Or</p> <p><input type="checkbox"/> For the minimum sum of <b>R .....</b> (<b>.....</b>)          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: <b>Yes</b></p> <p>To the minimum value of the <b>contract sum</b> plus 10 %</p>
42.3.3 [11.1#, 12.1 #]	<p>Public liability insurance to be effected by the <b>contractor</b></p> <p><input checked="" type="checkbox"/> For the sum of R 5 million          With a deductible not exceeding 5% of each and every claim</p> <p>Or</p> <p><input type="checkbox"/> For the sum of <b>R insert amount (insert amount in words)</b>          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 <b>contractor</b></p> <p>For the sum of <b>R insert amount (insert amount in words)</b></p> <p>With a deductible of <b>R insert amount (insert amount in words)</b></p>

<b>42.4</b>	<b>DOCUMENTS</b>
42.4.1	Wavier of <b>contractors lien</b> or right of continuing possession <b>is required.</b>
42.4.2 [3.7]	Three (3) copies of the construction documents will be supplied to the <b>contractor</b> free of charge
42.4.3	<p><b>Bills of quantities / Lump sum document</b> schedule of rates drawn up in accordance with:</p> <p><input checked="" type="checkbox"/> Standard System of Measuring Building Work (sixth edition as amended)</p> <p>Or</p> <p><input type="checkbox"/> Standard System of Measuring Building Work for Small or Simple Buildings 1999</p> <p>Or</p> <p><input type="checkbox"/> Other ( ) <i>Specific Project Specification forming part of this document. It will take preference over any contradictory items in the standard SABS/SANS 1200.</i></p>

<p>42.4.5 [3.4]</p>	<p><b>JBCC</b> Engineering General Conditions are to be included in the <b>contract documents: No</b></p>
<p>42.4.6 [31.5.3] [32.13]</p>	<p>The <b>contract value</b> is to be adjusted using <b>CPAP</b> indices: <span style="float: right;">No</span></p> <p>Where <b>CPAP</b> is applicable, the <b>contract sum</b> will be adjusted in accordance with the <b>JBCC</b> Contract Price Adjustment Provisions (<b>CPAP</b>) as set out in the <b>CPAP</b> Indices Application Manual as prepared by the <b>JBCC</b> Series 2000, code 2118, dated May 2005 and any amendments thereto:</p> <ol style="list-style-type: none"> <li>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</li> <li>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</li> <li>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</li> <li>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</li> <li>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</li> </ol> <p>Alternative Indices: <b>Not Applicable</b></p>
<p>42.4.7 [3.10]</p>	<p>Details of changes made to the provisions of <b>JBCC</b> standard documentation</p> <p>Clause</p> <p>1.1 <b>COMMENCEMENT DATE</b> – means the date that the <b>agreement</b>, made in terms of the Form of Offer and Acceptance, comes into effect</p> <p><b>CONSTRUCTION GUARANTEE</b> – means a guarantee at call obtained by the <b>contractor</b> from an institution approved by the <b>employer</b> in terms of the <b>employer’s</b> construction guarantee form as selected in the <b>schedule</b></p> <p><b>CONSTRUCTION PERIOD</b> – means the period commencing on the <b>commencement date</b> and ending on the date of <b>practical completion</b></p> <p><b>CORRUPT PRACTICE</b> – 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><b>FRAUDULENT PRACTICE</b> – 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><b>INTEREST</b> – 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><b>PRINCIPAL AGENT</b> – means the person or entity appointed by the <b>employer</b> and named in the <b>schedule</b>. In the event of a <b>principal agent</b> not being appointed, then all the duties and obligations of a <b>principal agent</b> as detailed in the <b>agreement</b> shall be fulfilled by a representative of the <b>employer</b> as named in the <b>schedule</b></p>

	<p><b>SECURITY</b> – means the form of security provided by the <b>employer</b> or <b>contractor</b>, as stated in the <b>schedule</b>, from which the <b>contractor</b> or <b>employer</b> 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 <b>construction guarantee</b> in terms of 14.0, where so elected in his tender</p> <p>3.7 Add at the end thereof:</p> <p>The <b>contractor</b> shall supply and keep a copy of the <b>JBCC</b> Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the <b>site</b>, to which the <b>employer</b>, <b>principal agent</b> and <b>agents</b> shall have access at all times.</p> <p>3.10 Replace the second reference to “<b>principal agent</b>” with the word “<b>employer</b>”</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 <b>employer</b> has retained its authority and has not given a mandate to the <b>principal agent</b> and in terms of which the <b>employer</b> shall sign all documents</p> <p>10.5 Add the following as 10.5</p> <p style="padding-left: 40px;">Damage to the works</p> <p>(1) Without in any way limiting the <b>contractor’s</b> obligations in terms of the contract, the <b>contractor</b> shall bear the full risk of damage to and/or destruction of the <b>works</b> by whatever cause during construction of the <b>works</b> and hereby indemnifies and holds harmless the <b>employer</b> against any such damage. The <b>contractor</b> shall take such precautions and security measures and other steps for the protection and security of the <b>works</b> as the <b>contractor</b> may deem necessary</p> <p>(2) The <b>contractor</b> shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the <b>works</b> and to rebuild, restore, replace and/or repair the <b>works</b></p> <p>(3) The <b>employer</b> shall carry the risk of damage to or destruction of the <b>works</b> and materials paid for by the <b>employer</b> that is the result of the excepted risks as set out in 10.6</p> <p>(4) Where the <b>employer</b> bears the risk in terms of this contract, the <b>contractor</b> shall, if requested to do so, reinstate any damage or destroyed portions of the <b>works</b> and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof</p> <p>10.6 Add the following as 10.6</p> <p style="padding-left: 40px;">Injury to Persons or loss of or damage to Properties</p> <p>(a) The <b>contractor</b> shall be liable for and hereby indemnifies the <b>employer</b> 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 <b>works</b> unless due to any act or negligence of any person for whose actions the <b>employer</b> is legally liable</p> <p>(b) The <b>contractor</b> shall be liable for and hereby indemnifies the <b>employer</b> 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 <b>site</b>, whether belonging to or under the control of the <b>employer</b> or any other body or person, arising out of or in the course of or by reason of the execution of the <b>works</b></p>
--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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**
- (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 and to execute the **works**

10.7 Add the following as 10.7

#### HIGH RISK INSURANCE

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 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

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

14.0 Replace the entire clause 14.0 with the following:

#### **14.0 SECURITY**

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)

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 the **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**

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**

- 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
- 14.4 Where **security** as a variable **construction guarantee** of ten percent (10%) of the **contract sum** (excluding VAT) has been selected:
- 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**
- 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
- 14.4.3 The **employer** shall return the variable **construction guarantee** to the **contractor** within fourteen (14) **calendar days** of it expiring
- 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**
- 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:
- 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)
- 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
- 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:
- 14.7.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(B)

- 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**
- 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**
- 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
- 15.1.1 No clause
- 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 as amended), within twenty-one (21) **calendar days** of **site handover 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 **commencement date**.”
- 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**.

	<p>31.8(B) Where security is a payment reduction in term of 14.7 has been selected the value of the <b>works</b> in terms of 31.4.1 and <b>materials and goods</b> 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 <b>payment certificates</b> issued up to the date of <b>practical completion</b></p> <p>31.8(B).2 Ninety-seven per cent (97%) of such value in interim <b>payment certificates</b> issued on the date of <b>practical completion</b> and up to but excluding the date of <b>final completion</b></p> <p>31.8(B).3 Ninety-nine per cent (99%) of such value in interim <b>payment certificates</b> issued on the date of <b>final completion</b> and up to but excluding the final <b>payment certificate</b> in terms of 34.6</p> <p>31.8(B).4 One hundred per cent (100%) of such value in the final <b>payment certificate</b> in terms of 34.6 except were the amount certified is in favour of the <b>employer</b>. In such an event the payment reduction shall remain at the adjustment level applicable to the final <b>payment certificate</b></p> <p>31.12 Delete the following: "Payment shall be subject to the <b>employer</b> giving the <b>contractor</b> 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 <b>contractor</b>" and 32.5.7</p> <p>34.1 Remove #</p> <p>34.2 Add # next to 34.2</p> <p>34.8 The <b>principal agent</b> shall certify one hundred per cent (100%) of the amount of the <b>final account</b> in the <b>final payment certificate</b></p> <p>34.13 Replace "seven (7) <b>calendar days</b>" with "twenty one (21) <b>calendar days</b>" and delete the words: "subject to the <b>employer</b> giving the <b>contractor</b> 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 judgment of the <b>employer</b>, has engaged in <b>corrupt</b> or <b>fraudulent practices</b> in competing for or in executing the contract</p> <p>36.3 Remove reference to "No clause", and replace "<b>principal agent</b>" with "<b>employer</b>"</p> <p>36.7 Add the following: "Notwithstanding any clause to the contrary, on cancellation of this 37.5 <b>agreement</b> either by the <b>employer</b> or the <b>contractor</b>; or for any reason whatsoever, and the <b>contractor</b> shall on written instruction, discontinue with the <b>works</b> on a date stated 38.7 and withdraw himself from the <b>site</b>. The contractor shall not be entitled to refuse to withdraw from the <b>works</b> 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) <b>working days</b> 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> <p>Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the <b>mediator</b> and related costs.</p> <p><b>New Clause</b> It will be a condition of contract that the contractor shall achieve in the performance of the contract the Contract Skills Development Goal (CSDG) established in the CIDB Standard for Developing Skills through Infrastructure Contracts, published in Gazette Notice No.48491 of 28 April 2023.</p> <p>The contractor shall achieve in the performance of the contract the Contract Participation Goals (CPG) relating to the engagement of targeted enterprises as established in the CIDB Standard for Indirect Targeting for Enterprise Development through Construction works Contracts Gazette Notice No.36190 of 25 February 2013.</p>
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>42.0</b>	<b>Part 2: Contract Data provided by the Contractor:</b>
<b>42.5</b>	<b>CONTRACT DETAILS</b>
42.5.1	<p><b>Contractor:</b></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>



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

## Fixed Construction Guarantee – JBCC

**FIXED CONSTRUCTION GUARANTEE**  
**JBCC 2000 PRINCIPAL BUILDING AGREEMENT**

(Edition 4.1 of March 2005)

HEAD OF DEPARTMENT

**Error! Reference source not found.**

GOVERNMENT OF THE REPUBLIC OF SOUTH AFRICA

TO: CFO - Mr B Slingers

**Error! Reference source not found.**

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 ROADS & PUBLIC WORKS (hereinafter referred to as the "**employer**"), Contract/Tender No: DRPW 003/2023 for TSHWARAGANO DISTRICT HOSPITAL - PHASE 1  
  
(hereinafter referred to as the "contract") in the amount of R \_\_\_\_\_,  
( \_\_\_\_\_ ),  
(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 \_\_\_\_\_,  
( \_\_\_\_\_ )  
being 10% of the **contract sum** (excluding VAT), for the due fulfilment of the contract.
2. The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis*; and all other exceptions 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, during the period when the claim is received by the **guarantor**, on receipt of a written demand from the **employer** to do so, and which demand the **employer** may make if 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.

6. This undertaking 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**; and
  - (c) 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 \_\_\_\_\_ 201\_\_

**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: \_\_\_\_\_**

## **Variable Construction Guarantee – JBCC**

**VARIABLE CONSTRUCTION GUARANTEE**  
**JBCC 2000 PRINCIPAL BUILDING AGREEMENT**

(Edition 4.1 of March 2005)

HEAD OF DEPARTMENT  
DEPARTMENT OF ROADS AND PUBLIC WORKS  
GOVERNMENT OF THE REPUBLIC OF SOUTH AFRICA

TO: CFO – Mr B Slingers  
Tebogo Leon Tume Complex  
9-11 Stockroos Stree  
Square Hill Park  
KIMBERLEY,8301

Sir,

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

5. 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 ROADS & PUBLIC WORKS, (hereinafter referred to as the “**employer**”),  
Contract/Tender No: DRPW 003/2023 for the TSHWARAGANO DISTRICT HOSPITAL - PHASE 1

(hereinafter referred to as the “contract”) in the amount of R \_\_\_\_\_,  
( \_\_\_\_\_ ) (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 \_\_\_\_\_,  
( \_\_\_\_\_ )  
being 10% of the **contract sum** (excluding VAT), for the due fulfilment of the contract.

6. I / We advise that the **guarantor’s** liability in terms of this guarantee shall be reduced 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) From and including the day after the date of the last **certificate of practical completion** and up to and including the date of the last **final completion** certificate, the **guarantor’s** liability will be reduced to 3% of the value of the works (excluding VAT);
- (c) From and including the day after the date of the last **final completion** certificate and up to and including the date of settlement of the amount in the last final **payment certificate**, the **guarantor’s** liability will be reduced to 1% of the value of the works (excluding VAT);
- (d) This guarantee shall expire on the date of payment of the amount in the last final payment certificate.

7. The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis*; and all other exceptions 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, during the period when the claim is received by the **guarantor**, on receipt of a written demand from the **employer** to do so, and which demand the **employer** may make if the **employer** has a right of recovery against the **contractor** in terms of 33.0 of the contract.
- (c) 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.
  - (d) 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**.
  - (e) 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.
  - (f) This undertaking 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; and
    - © 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 \_\_\_\_\_ 20\_\_

**AS WITNESS**

- 3. \_\_\_\_\_
- 4. \_\_\_\_\_

\_\_\_\_\_  
 By and on behalf of  
 \_\_\_\_\_  
 \_\_\_\_\_

\_\_\_\_\_  
 (insert the name and physical address of the guarantor)

NAME: \_\_\_\_\_

CAPACITY: \_\_\_\_\_  
 (duly Authorized thereto by resolution attached marked Annexure A)

DATE: \_\_\_\_\_

**D. No alterations and/or additions of the wording of this form will be accepted**

- E. **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.**
- F. **This GUARANTEE must be returned to: \_\_\_\_\_**  
  
\_\_\_\_\_

## PART C3: SCOPE OF WORKS

## Scope of Works – JBCC

**SCOPE OF WORKS  
JBCC 2000 PRINCIPAL BUILDING AGREEMENT  
(Edition 4.1 of March 2005)**

<b>PROJECT</b>	TSHWARAGANO DISTRICT HOSPITAL - PHASE 1
----------------	-----------------------------------------

C3. Scope of Works

**EXTENT OF THE WORKS**

The works consist of the construction of new facilities and upgrade of existing facilities at the existing **Tshwaragano District Hospital** for the Department of Roads and Public Works on behalf of the Department of Health of the Northern Cape Province.

The scope of works includes, but is not limited to:

Refurbishment and extension to existing gateway clinic

New walkways linking various buildings

Installation of limited bulk services including sewer, water and stormwater

**ORDER OF THE WORKS**

As per contractor's preliminary programme and as agreed by the Project Manager and not to exceed the contract period.

**ACCESS**

The site is located at the existing Tshwaragano District Hospital in the Batlharos area, Northern Cape.

**CONTRACT PARTICIPATION GOAL**

The employer may include the following statement in the tender documents should the employer wish to have specific training carried out as an objective of the project:

One of the objectives of the project is to train .... (occupational qualifications, trade qualification, work integrated learners – P1 and P2 learners, professional candidates ) (delete that which is not applicable)

The objective of the project is to provide for a minimum contract participation goal (CPG) of 5% of the total project value and to develop targeted enterprises by the main or lead partner contractors.

NB: The main contractor must dedicate a minimum 5% of total project value to targeted subcontractor or joint venture partner and provide developmental support to targeted subcontractor or joint venture partner.

The Contractor shall:

- Subcontract a minimum of 5% of the total project value to targeted enterprises;
- Perform needs analysis on the targeted enterprise to identify developmental goals;
- Provide internal mentorship support to improve the targeted enterprise/s performance;

- Develop a project specific enterprise development plan to improve the targeted enterprise/s performance in the identified developmental areas to the CIDB Competence Standard for Contractors Gazette No. 41237, 10 November 2017
- Monitor and report the progress of the agreed development areas with the targeted enterprise/s
- Submit a project completion report to the Employer's representative for each targeted enterprise.

The Contractor shall provide opportunities to learners requiring structured workplace learning using one or a combination of any of the Skills Methods as agreed: accommodate Part/Full Occupational qualification (Method 1), Trade qualifications learners (Method 2), train Work Integrated Learners – P1 and P2 Learners (Method 3) and/or Professional Candidates (Method 4) as indicated in the cidb Standard and as agreed to by the Employer on this project (Employer to stipulate)

# Health and Safety Specification

# STANDARD HEALTH AND SAFETY SPECIFICATION

## Standard Bills

---

These specifications shall be used in conjunction with all other applicable Health and Safety specifications, Legislation as in Occupational Health and Safety Act no. 85 of 1993 as amended by Act no.181 of 1993, the Construction Regulations as promulgated in 2014 and incorporated into the OHS Act by Government Notice No. R1010 published in Government Gazette 25207, General Safety Regulations as promulgated on 18 July 2006 and incorporated into the OHS Act by Government Notice No. 1010 published in Government Gazette 25207 and all other relevant regulations incorporated into the OHS Act as well as ISO 9 000, all Environmental legislation such as:

- Environment Conservation Act No. 73 of 1989
- National Water Act No. 36 of 1998
- Hazardous Substances Act No. 15 of 1973
- Atmospheric Pollution Prevention Act No.45 of 1965
- Physical Planning Act 88 of 1967

## GENERAL

- Client

The Client, Department of Roads and Public Works, shall execute his duties as per Regulation 4 of the Construction Regulations of 2003 that states *inter alia*, the following:

1. A client shall be responsible for the following in order to ensure compliance with the provisions of the Act-
  - (a) Prepare health and safety specifications for the construction work, and provide any Contractor who is making a bid or appointed to perform work for the client with the same;
  - (b) Appoint each Contractor in writing for the project or part thereof on a construction site;
  - (c) Take reasonable steps to ensure that each Contractor's health and safety plan is implemented and maintained on the construction site. Provided that the steps taken, shall include periodic audits at intervals, mutually agreed upon between the client and the Contractor, but at least once every month;
  - (d) Stop any Contractor from executing construction work, which is not in accordance with, the Contractor's health and safety plan;
  - (e) Ensure that where changes are brought about to the design or construction, sufficient health and safety information and appropriate resources are made available to the principal contractor to execute the work safely;
  - (f) Ensure that every Contractor is registered and in good standing with the Compensation fund or with a licensed compensation insurer prior to commencing on site.
  - (g) Ensure that potential principal contractors submitting tenders, have made provision for the cost of health and safety measures during construction process.

Therefore, the following specifications from the Client to the Contractor:

- Each and every Contractor shall make the following appointments and provide the necessary training accordingly:

- (a) Construction Works Supervisor
- (b) Health and Safety Representatives
- (c) Health and Safety Committee
- (d) Machinery Supervisor
- (e) Excavation Inspector
- (f) And all the necessary appointments as per the OHS Act and the relevant Regulations

**All appointments should be completed before work commencement, signed, dated and completed in full, be fully explained to the nominated individual and should be at all times displayed on Site Notice Board that will have to be at least 600mm by 800mm.**

- The Site Notice Board should also ***inter alia***, have the following information on it:
  - a. Site regulations concerning safe working procedures
  - b. Information on the nearest first-aid station
  - c. Ambulance
  - d. Doctor
  - e. CSO's number and
  - f. Other relevant persons
- Each and every Contractor shall give notification of Construction work to the Office of the Department of Labour **PRIOR** to commencement of work.
- Each Contractor shall provide the Client with a Pre Site establishment checklist
- Each Contractor shall to monthly safety audits on the project and provide the Client with a copy thereof
- Each Contractor shall provide to the Client a Health and Safety Representative inspection checklist and ensure that Health and Safety representatives do inspections at least on a monthly basis
- Each Contractor shall provide and demonstrate to the Client a Health and Safety management policy
- As per the General Safety Regulations Regulation 4 as contemplated in the Basic Conditions of Employment Act, No. 3 of 1983, have the relevant amount of trained First-Aiders on site.
- In terms of Regulation 3 of the General Safety Regulations, provide a first-aid box or boxes on the premises of work
- In terms of Section 23 of the OHS Act, provide all workers at all times, with the necessary PPE.
- In terms of the Facilities Regulations provide the necessary facilities such as proper ablution, during space, lockers and any other item as per the Facilities Regulations that is necessary to carry out the work safely and without risk to the health of the workers.
- Keep an incident record book on site at all times.

### **SAFE WORKING LOADS**

The Contractor shall ensure that where applicable:

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

## **ELECTRICAL EQUIPMENT AND PROCEDURES USED BY THE CONTRACTOR**

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

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

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

## **COMMISSIONING SAFETY PRECUATIONS**

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

A Certificate of Completion by a qualified master electrician will be issued after electrical work is completed.

## **TOXIC MATERIALS**

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

A designated route as well as a dumping site will be identified for the transportation and disposal of waste material by the service provider.

## **INDEMNITY OF THE CLIENT AND HIS AGENTS**

Annexure A to this Specification contains a "Mandatory Form of Authority and Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No 85/93, as amended, which agreement shall be entered into and duly signed by both the Client and the Contractor prior to commencement of work. A copy of the signed agreement shall be included in the Contractor's Health and Safety Plan.

Any acceptance, approval, check, certificate, consent, examination, inspection, instruction, notice observation, proposal, request, test or similar act by either the Client or any of his Agents, including lack of disapproval, shall not relieve the Contractor from any responsibility he has under the Act and the relevant regulations (Construction Regulation), including responsibility for errors, omissions, discrepancies and non-compliance.

## **SPECIFIC REQUIRMENTS**

### **Design**

No significant hazards can be identified which have not been considered in the detailed design. However, hazard must be anticipated that are due to and arising from shoddy and careless workmanship and unconventional construction methods used by semi-qualified and unqualified craftsmen during skills transfer.

Work sequences are a logical progression of the construction of a building under consideration of the tender documentation, National Building Regulations, Regulations, the Standard Occupational Health and Safety Specifications, other specifications and manufacturers' instructions.

### **Security**

The Contractor's material site must be properly secured.

### **Existing environment**

The surrounding roads and properties will be pointed out to the Contractor at site handover.

If the flow of traffic is in no way going to be hampered by the contractor's work, the necessary traffic authorities must be immediately informed.

### **Existing services**

All known services will be pointed out at site handover.

Contractors must recognize that all services on the site must be expected to be "live" and potentially critical to the safe functioning of the works. Precautions for any work on or near them should be identified, planned, approved and taken accordingly.

In the event that previously unidentified services are discovered, Contractors shall immediately refer detail of location, suspected condition and status to the Client and await instruction. On no account must any services be interfered with without specific instruction and authority.

### **Ground conditions**

As per the geotechnical assessment.

### **Related restrictions affecting health and safety**

Being in a residential area, normal daytime working hours are to be adhered to in order to minimize disturbance to surrounding residences.

No unauthorized blasting in a residential area will be done without authorization from the client.

### **Control of pollution**

All rubble, refuse, etc. is to be disposed of in accordance with the municipal by-laws.

Needed to mention, the above mentioned health and safety specifications should be used in accordance with the standard specifications as can be found in the existing tender document of the Client.

The Client can and will, if necessary and in the interest of health and safety, amends the above mentioned specifications.

An identified and agreed dumping site will be used in case of hazardous material. A disposal certificate will be issued by the contractor after disposal.

- **Principal Contractor and Contractor**

In terms of Regulation 5 of the Construction Regulations, after receiving the health and safety specifications from the Client, the Principal Contractor shall provide and demonstrate to the Client a Health and Safety Plan. This Health and Safety Plan shall indicate that the (Contractor) shall perform, but is not limited to, the following duties:

#### **GENERAL REQUIREMENTS**

- Administration
- Appointments
- Safety committees
- Registers, Checklists and permits
- Incident management
- Emergency planning
- Contractors
- Risk assessment
- Audits
- Hazardous substance control
- Training
- Additional requirements
- Planning

## **Annexure:**

The following annexures should be attached to the Health and Safety Plan and the format should be agreed upon between the Client and the Contractor:

- Pro forma for Construction Works Supervisor appointment
- Pro forma for Health and Safety Representative Appointment and his IOSH membership
- Pro forma for Machinery Supervisor appointment
- Pro forma for Excavation Inspector appointment
- Pro forma for Notification of Construction Work
- Pro forma – Pre Site Inspection Checklist
- Monthly Safety Audit Checklist
- Health and Safety Representative Inspection checklist
- Health and Safety Management Policy

## **CONCLUSION**

The objectives of this document is to outline all necessary procedures required to implement and maintain a comprehensive Occupational Health and Safety System for Construction Projects in line with specifications prescribed by the Department of Roads and Public Works.

It is general business imperative of the Department of Roads and Public Works to understand and embrace safe working procedures. Violations of simple safety procedures can lead to injury and even loss of life. Every accident, no matter how minor, can be translated into costs against the Project. These costs are both direct (damage to property, medical expenses, etc.) and indirect (investigation proceedings, disruption of work, delay in program, plant replacements, etc).

In order for an easier understanding of legislative requirements in particular with regard to the Construction Regulations this proposed planning document has been compiled in a very simplistic manner. It will therefore not focus on each and every scenario that may arise and does not intend to convey all requirements of statutes other than the following:

1. Occupational Health and Safety Act No. 85/93 as amended by Act No. 181/93
2. Incorporated Regulations of the Act – Construction Regulations of 2003
3. Relevant SABS codes of the Practice as per Section 40 of the OHS Act.
4. Compensation for Occupational Injury and Diseases Act no. 130 of 1993 as amended.

## STANDARD ABBREVIATIONS

### OCCUPATIONAL HEALTH AND SAFETY

ITEM	TERM	ABBREVIATION
1	Health and Safety	H&S
2	Occupational Health and Safety	OHS
3	Safety Health and environment Representative	SHE REP
4	Hazard Identification and Risk Assessment	HIRA
5	Personal Protective Equipment	PPE
6	General Administrative Regulations	GAR
7	Facilities Regulations	FR
8	General Safety Regulations	GSR
9	Environmental Regulations	ER
10	Electrical Installation Regulations	EIR
11	Asbestos Regulations	AR
12	Driven Machinery Regulations	DMR
13	General Machinery Regulations	GMR
14	Electrical Machinery Regulations	EMR
15	Diving Regulations	DR
16	Lead Regulations	LR
17	Vessels under Pressure Regulations	VPR
18	Regulations for Hazardous Chemicals Substances	HAZCHEM Reg.
19	Major Hazard Installation Regulations	MHIR
20	Construction Regulations	CR
21	Mines Health and Safety Act	MHS ACT
22	Compensation for Occupational Injuries and Diseases Act	COIDA
23	South African Bureau of Standards	SABS
24	Construction Safety Officer	CSO
25	Medical Safety Data Sheet	MSDS
26	Tunneling Regulations	TR
27	Traffic Calming Devices	TCD
28	Environmental Impact Assessment	EIA
29	Hazardous Chemical Substances	HCS
30	Dangerous Goods	DG
31	Dry Chemical Powders	DCP

## HEALTH AND SAFETY SPECIFICATION

### BREAKDOWN OF MINIMUM EXPECTED COST ITEMS

**CARRY TOTAL TO SECTION C, CLAUSE C11 OF PRELIMINARIES**

NO	GENERAL REQUIREMENTS	STATUE	QUANTITY	RATE	AMOUNT
1	Contractor's Health and safety Plan	Regulation 5 of CR	1/site		
2	Contractor's full time construction Supervisor	Regulation 6(1) of CR	1/site		
3	Risk Assessment	Regulation 7(1)	1/site		
4	Fall protection plan	Regulation 8(1)	1/site		
5	Demolition work	Regulation 12 (1) of CR	1		
6	Scaffolding and suspended platforms supervisor (Full time)	Regulation 14(1) of CR	1		
7	Construction welfare facilities	Regulation 28(1)	1		
8	Health and safety induction	Section 13 of OHS ACR 85/93	1		
9	Trained health and safety representatives	Section 17 and 18 of OHS ACT 85/93	2 rep for every ten employees		
10	Trained health and safety committee(s)	Section 19 and 20 of OHS ACT	At least one (1) Committee		
11	Provision of PPE for workers free of charge at employer's expense	Section 23 of OHS Act 85/93	All workers on site		
12	Provision of trained first-aiders full time on site	Regulation 3(94) of GSR	2 trained first-aiders for up to every10 employees		
13	Log books including health and safety file full time on site	Regulation 8(1) of GAR	1		
14	Notices on site	Regulation 11(1) of GAR	3		
15	Safety straps, safety harnesses, safety rails and safety devices	Section 8 of OHS ACT 85/93			
16	Full time health and safety officer on site		1		
17	Compliance to health and safety protocols related to the Covid-19 must clearly be incorporated into the Health and Safety Plan		1		
TOTAL CARRIED TO THE PRELIMINARIES CLAUSE C11 IN SECTION C OF THE PRELIMINARIES AND GENERAL					

## PART C4: SITE INFORMATION

## Site Information – JBCC

**SITE INFORMATION**  
**JBCC 2000 PRINCIPAL BUILDING AGREEMENT**  
**(Edition 4.1 of March 2005)**

<b>Project title:</b>	TSHWARAGANO DISTRICT HOSPITAL - PHASE 1
-----------------------	-----------------------------------------

C4 Site Information

**1. LOCATION AND ACCESS**

The site is located at the existing Tshwaragano District Hospital in the Batlharos area, Northern Cape  
Please contact the project leader for confirmation of the site. The project leader for this project is:  
Mr. S. Kumalo, contact the department at 053 839 2258 for more information.

**2. NATURE OF THE GROUND**

Geotechnical test have been conducted on the site to determine the nature of the ground. Tenderers / Bidders must however inspect the premises in order to make themselves thoroughly acquainted with the nature of the ground. No claims whatsoever will be entertained spreading from a bidder that did not attend the site meeting or did not familiarise himself with the conditions at the premises.

**3. SKILLS DEVELOPMENT STANDARD AND INDIRECT TARGETING STANDARD**

This tender applies to both the (a) Skills Development Standard and the (b) Indirect Targeting Standard. Although in the case of these two standards there are no returnable documents, tenderers are sensitised that the proforma documents as listed below, shall be completed by the successful contractor after award of the contract within the stipulated period. (The proforma documents are provided in the tender data for information purposes only).

- Form A1 List of Recognised Skills Development Agencies, Form A2 Baseline Training Plan, Form A3 Project Interim Report, Form A4 Supervisor Agreement, Form A5 Project Completion Report (CSDG).
- Project Interim Report, Project Completion Report and Declaration (Indirect Targeting Standard).

## **PART C2 : PRICING DATA**

# PRICING INSTRUCTIONS JBCC 2000 PRINCIPAL BUILDING AGREEMENT

(Edition 4.1 of March 2005)

## C2.1 Pricing Instructions

### 1. BILLS OF QUANTITIES

The pricing strategy adopted for this project is the **provisional bills of quantities** which 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.

The Standard System of Measuring Building Work referred to in Clause 41.4.3 of Section 1: Preliminaries (Section A), has reference. Except where stated otherwise or where it is clear from the contents of the measured items, these bills of quantities have been compiled in accordance with the "Standard System of Measuring Building Work" 6th edition (as amended), issued by the Association of South African Quantity Surveyors. All measurements and payments will be done in accordance with the principles as laid down in the said Standard System of Measuring Building Work.

### 2. GENERAL PREAMBLES

For further amplification of descriptions of materials to be used and methods to be adopted, the contractor is referred to the Specification of Materials and Methods to be used (PW371) as published by the Department of Public Works (fourth revision, October 1993), the relevant descriptions which shall be deemed to be read and priced in conjunction with the descriptions in the **provisional bills of quantities**. No claims arising from brevity of description of items fully described in the said specification will be entertained.

The document Specification of Materials and Methods to be used (PW371) is obtainable on request from the head office and all regional offices of the Department.

### 3. ORDERING OF MATERIALS

The Contractor shall place orders timeously for materials or specified articles that are required. Should the **bills of quantities** be used for ordering materials, this shall be entirely at the contractor's risk.

### 4. IMPORTED MATERIALS AND EQUIPMENT

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, material or equipment shall be excluded from currency fluctuations. (Refer to form DPW-23 EC for the Schedule of imported materials and equipment to be completed by the tenderer).

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).

### 5. VALUE ADDED TAX

The tender price must include for Value Added Tax (VAT). All rates, provisional sums, etc. in the **bills of quantities** must however be net (exclusive of VAT) with VAT calculated and added to the Total Value thereof in the Final Summary.

### 6. PRIME COST AMOUNTS

Prime cost amounts are a net allowance, excluding VAT, for materials only, and the tenderer should allow for the necessary labour, wastage, profit, etc in pricing these items.

### 7. EXISTING SERVICES

During construction in the various areas, it is anticipated that unknown live services will be exposed and temporary deviations will need to be constructed. The Contractor will be deemed to have made due allowance in his programming and pricing of the Bills of Quantities for possible delays due to the existence of unknown live services and no extension of time claims will be entertained in this regard.

## 8. SECURITY

The Contractor is to provide for his own site security and is to co-ordinate overall site security with any Nominated Sub-Contractors.

## 9. ACTS OF PARLIAMENT, ORDINANCES, REGULATIONS AND BY-LAWS AND OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993 – SECTION 37 [2])

Reference made to, or requirements called for in terms of the provisions of any Act of Parliament, Ordinance and the Regulations or By-Laws of any local or other statutory authority shall not in any way limit the Tenderer / Contractor's liability or obligations to familiarise himself with and comply with the provisions of all Acts of Parliament, Ordinances and the Regulations or By-Laws of any local or other statutory authority which may be applicable.

The Tenderer's attention is drawn to the fact that the Occupational Health and Safety Act (Act 85 of 1993 – Section 37[2]) is in force. Copies of the Act as well as the Construction Regulations 2003, issued in terms of the Act, are available from the Government Printing Works, 149 Bosman Street, Pretoria (Private Bag X85, Pretoria, 0001. Tel. 012 – 334 4500)

The Contractor is to provide the appropriate number of Safety Officers required for the execution of the full project and for the duration of the entire contract.

These Bills of Quantities contain items relating to the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act 85 of 1993). Tenderers must price separately all the relevant items under clause C11 of the Preliminaries to enable the Department to ensure that tenderers have made provision for the cost of all health and safety measures during the construction process.

## 10. CONTRACT PRICE ADJUSTMENT PROVISIONS (ESCALATION)

This Contract will be / ~~will not~~ be subject to escalation in terms of the JBCC Contract Price Adjustment Provisions.

## 11. LOCAL LABOUR

The Tenderer's attention is specifically drawn to Clause 13, Section 1: Preliminaries (Section C) of these Bills of Quantities.

It is strongly recommended that the successful Contractor appoint a community facilitator in order to facilitate the requirements of Clause 13 of the Preliminaries (Section C).

It must be clearly understood that should a community facilitator be appointed; he will remain the full responsibility of the Contractor and no claims will be entertained in this respect.

## 12. EXPENSES IN PREPARATION OF TENDERS

The Employer will not be responsible for, or pay for, any expenses or losses incurred by the Tenderer during the preparation of his tender.

## 12. CONTRACT SKILLS PARTICIPATION GOALS

The contractor shall determine the contract skills participation goals, expressed in Rand, which shall not be less than the contract amount multiplied by a percentage factor given in Table 2 in the Standard for the applicable class of construction works. This is indicated by the percentage factor in the Final Tender Summary section. Minimum Contract Skills Development Goal (CSDG) sum = Civil Engineering CE (0.25%) x Subtotal of the tender amount

The Employer shall determine the amount to be paid to the Enterprise Development Co-ordinator for the Contract Participation Goal (CPG) on the contract and this amount shall be stated under the section Enterprise Development as a Provisional Sum in the Preliminaries and Generals (P&G's).

The contractor shall be paid as follows:

These are recommended rates, client may change depending on the location of the project, complexity etc. These rates must be stated by the client in the P&Gs so that all tenderers have the same rate and not result in a tenderer being disadvantaged.

- o Needs analysis and enterprise development plan per Targeted Enterprise - R5000.00 (five thousand rands) per targeted enterprise.
- o Mentoring and interim reporting per Targeted Enterprise - R20 000.00 (twenty thousand rands) per quarter;  
and
- o Project completion report per Targeted Enterprise - R5000.00 (five thousand rands) per targeted enterprise.

## C2.2- Provisional Bills of Quantities

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 1</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>PRELIMINARIES AND GENERAL</u></b></p> <p><b><u>MEANING OF TERMS "TENDER / TENDERER"</u></b></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><b><u>PRELIMINARIES</u></b></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><b><u>PRICING OF PRELIMINARIES</u></b></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><b><u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u></b></p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>		R	

<p>1</p>	<p><b>DEFINITIONS</b></p> <p><b>A1.0 DEFINITIONS AND INTERPRETATION</b></p> <p>Clause 1.0</p> <p>Clause 1.1 Definition of "<b>Commencement Date</b>" is added:</p> <p><b>"COMMENCEMENT DATE"</b> means the date that the <b>agreement</b>, made in terms of the Form of Offer and Acceptance, comes into effect</p> <p>Clause 1.1 Definition of "<b>Construction Guarantee</b>" is amended by replacing it with the following:</p> <p><b>"CONSTRUCTION GUARANTEE"</b> means a guarantee at call obtained by the <b>contractor</b> from an institution approved by the <b>employer</b> in terms of the <b>employer's</b> construction guarantee form as selected in the <b>schedule</b></p> <p>Clause 1.1 Definition of "<b>Construction Period</b>" is amended by replacing it with the following:</p> <p><b>"CONSTRUCTION PERIOD"</b> means the period commencing on the <b>commencement date</b> and ending on the date of <b>practical completion</b></p> <p>Clause 1.1 Definition of "<b>Corrupt Practice</b>" is added:</p> <p><b>"CORRUPT PRACTICE"</b> 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>Clause 1.1 Definition of "<b>Fraudulent Practice</b>" is added:</p> <p><b>"FRAUDULENT PRACTICE"</b> 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>Clause 1.1 Definition of "<b>Interest</b>" is amended by replacing it with the following:</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>			<p>R</p>
----------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	----------

<p>2</p>	<p><b>"INTEREST"</b> 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)</p> <p>Clause 1.1 Definition of <b>"Principal Agent"</b> is amended by replacing it with the following:</p> <p><b>"PRINCIPAL AGENT"</b> means the person or entity appointed by the <b>employer</b> and named in the <b>schedule</b>. In the event of a <b>principal agent</b> not being appointed, then all the duties and obligations of a <b>principal agent</b> as detailed in the <b>agreement</b> shall be fulfilled by a representative of the <b>employer</b> as named in the <b>schedule</b></p> <p>Clause 1.1 Definition of <b>"Security"</b> is amended by replacing it with the following:</p> <p><b>"SECURITY"</b> means the form of security provided by the <b>employer</b> or <b>contractor</b>, as stated in the <b>schedule</b>, from which the <b>contractor</b> or <b>employer</b> 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>No clause</p> <p>F:..... V:..... T:.....</p> <p><b><u>OBJECTIVE AND PREPARATION</u></b></p> <p><b>A2.0 OFFER, ACCEPTANCE AND PERFORMANCE</b></p> <p>Clause 2.0</p> <p>F:..... V:..... T:.....</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>	<p>Item</p> <p>Item</p>	<p>R</p>	
----------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------	----------	--

<p>3</p>	<p><b>A3.0 DOCUMENTS</b></p> <p>Clause 3.0</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 <b>contractor</b> shall supply and keep a copy of the <b>JBCC</b> Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the <b>site</b>, to which the <b>employer, principal agent and agents</b> shall have access at all times</p> <p>Clause 3.10 is amended by replacing the second reference to "<b>principal agent</b>" with the word "<b>employer</b>"</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>4</p>	<p><b>A4.0 DESIGN RESPONSIBILITY</b></p> <p>Clause 4.0</p> <p>Clause 4.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>5</p>	<p><b>A5.0 EMPLOYER'S AGENTS</b></p> <p>Clause 5.0</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:..... T:.....</p>	<p>Item</p>		
<p>6</p>	<p><b>A6.0 SITE REPRESENTATIVE</b></p> <p>Clause 6.0</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>			<p style="text-align: center;">R</p>	

<p>7</p>	<p><b>A7.0 COMPLIANCE WITH REGULATIONS</b></p> <p>Clause 7.0</p> <p>Note: A separate clause has been included in Section C : Specific Preliminaries of the <b>bills of quantities / lump sum document</b> for the <b>contractor</b> 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>8</p>	<p><b>A8.0 WORKS RISK</b></p> <p>Clause 8.0</p> <p>F:..... V:..... T:.....</p>	Item		
<p>9</p>	<p><b>A9.0 INDEMNITIES</b></p> <p>Clause 9.0</p> <p>F:..... V:..... T:.....</p>	Item		
<p>10</p>	<p><b>A10.0 WORKS INSURANCES</b></p> <p>Clause 10.0</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p> <p><b>10.5 Damage to the Works</b></p> <p>(a) Without in any way limiting the <b>contractor's</b> obligations in terms of the contract, the <b>contractor</b> shall bear the full risk of damage to and/or destruction of the <b>works</b> by whatever cause during construction of the <b>works</b> and hereby indemnifies and holds harmless the <b>employer</b> against any such damage. The <b>contractor</b> shall take such precautions and security measures and other steps for the protection and security of the <b>works</b> as the <b>contractor</b> may deem necessary</p>			<p style="text-align: center;"><b>Carried to Collection</b></p> <p style="text-align: right;">R</p>
<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>				

<p>(b) The <b>contractor</b> shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the <b>works</b> and to rebuild, restore, replace and/or repair the <b>works</b></p> <p>(c) The <b>employer</b> shall carry the risk of damage to or destruction of the <b>works</b> and materials paid for by the <b>employer</b> that is the result of the excepted risks as set out in 10.6</p> <p>(d) Where the <b>employer</b> bears the risk in terms of this contract, the <b>contractor</b> shall, if requested to do so, reinstate any damage or destroyed portions of the <b>works</b> and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof</p>	<p><b>10.6 Injury to Persons or loss of or damage to Properties</b></p>	<p>(a) The <b>contractor</b> shall be liable for and hereby indemnifies the <b>employer</b> 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 <b>works</b> unless due to any act or negligence of any person for whose actions the <b>employer</b> is legally liable</p>	<p>(b) The <b>contractor</b> shall be liable for and hereby indemnifies the <b>employer</b> 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 <b>site</b>, whether belonging to or under the control of the <b>employer</b> or any other body or person, arising out of or in the course of or by reason of the execution of the <b>works</b> unless due to any act or negligence of any person for whose actions the <b>employer</b> is legally liable</p>	<p><b>Carried to Collection</b></p>	<p>R</p>	<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------	----------	-------------------------------------------------------------------------------------------------

	<p>(c) The <b>contractor</b> shall, upon receiving a <b>contract instruction</b> from the <b>principal agent</b>, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the <b>employer</b> shall be entitled to cause it to be made good and to recover the cost thereof from the <b>contractor</b> or to deduct the same from amounts due to the <b>contractor</b></p> <p>(d) The <b>contractor</b> shall be responsible for the protection and safety of such portions of the premises placed under his control by the <b>employer</b> for the purpose of executing the <b>works</b> until the issue of the <b>certificate of practical completion</b></p> <p>(e) Where the execution of the <b>works</b> 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 <b>contractor</b> 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 <b>works</b> has been completed</p> <p>(f) The <b>contractor</b> 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 <b>works</b></p> <p><b>10.7 High risk insurance</b></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><b>Carried to Collection</b></p>		<p>R</p>	
<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>				

	<p><b>10.7.1 Damage to the works</b></p> <p>The <b>contractor</b> shall, from the <b>commencement date</b> of the <b>works</b> until the date of the <b>certificate of practical completion</b> bear the full risk of and hereby indemnifies and holds harmless the <b>employer</b> against any damage to and/or destruction of the <b>works</b> consequent upon a catastrophic ground movement as mentioned above. The <b>contractor</b> shall take such precautions and security measures and other steps for the protection of the <b>works</b> as he may deem necessary</p> <p>When so instructed to do so by the <b>principal agent</b>, the <b>contractor</b> shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the <b>works</b> and to rebuild, restore, replace and/or repair the <b>works</b>, at the <b>contractor's</b> own costs</p> <p><b>10.7.2 Injury to persons or loss of or damage to property</b></p> <p>The <b>contractor</b> shall be liable for and hereby indemnifies and holds harmless the <b>employer</b> 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 <b>contractor</b> shall be liable for and hereby indemnifies the <b>employer</b> 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 <b>site</b>, whether belonging to or under the control of the <b>employer</b> 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><b>10.7.3</b> It is the responsibility of the <b>contractor</b> 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 <b>contractor's</b> obligations in terms of the contract, the <b>contractor</b> shall, within twenty-one (21) <b>calendar days</b> of the <b>commencement date</b> but before commencement of the <b>works</b>, submit to the <b>employer</b> proof of such insurance policy, if requested to do so</p>			
	<b>Carried to Collection</b>		R	
<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>				

	<p><b>10.7.4</b> The <b>employer</b> shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the <b>contractor's</b> 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 <b>contractor</b> or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the <b>employer</b> and the <b>contractor</b> and for this purpose all these contracts shall be considered one indivisible whole</p> <p>F:..... V:..... T:.....</p>			
11	<p><b>A11.0 LIABILITY INSURANCES</b></p> <p>Clause 11.0</p> <p>F:..... V:..... T:.....</p>	Item		
12	<p><b>A12.0 EFFECTING INSURANCES</b></p> <p>Clause 12.0</p> <p>F:..... V:..... T:.....</p>	Item		
13	<p><b>A13.0 No clause</b></p>	N/A		
14	<p><b>A14.0 SECURITY</b></p> <p>Clause 14.0</p> <p>Clauses 14.1 - 14.8 are amended by replacing them with the following:</p> <p>14.1 In respect of contracts with a <b>contract sum</b> up to R1 million, the <b>security</b> to be provided by the <b>contractor</b> to the <b>employer</b> will be a payment reduction of five per cent (5%) of the value certified in the <b>payment certificate</b> (excluding VAT)</p> <p>14.1.1 The payment reduction of the value certified in a <b>payment certificate</b> shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p>			
	<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>		R	

<p>14.1.2 The <b>employer</b> shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the <b>employer</b> complies with the provisions of 33.4 in which event the <b>employer's</b> entitlement shall take precedence over his obligations to refund the payment reduction <b>security</b> or portions thereof to the <b>contractor</b></p> <p>14.2 In respect of contracts with a <b>contract sum</b> above R1 million, the <b>contractor</b> shall have the right to select the <b>security</b> to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the <b>schedule</b>. Such <b>security</b> shall be provided to the <b>employer</b> within twenty-one (21) <b>calendar days</b> from <b>commencement date</b>. Should the <b>contractor</b> fail to select the <b>security</b> to be provided or should the <b>contractor</b> fail to provide the <b>employer</b> with the selected <b>security</b> within twenty-one (21) <b>calendar days</b> from <b>commencement date</b>, the <b>security</b> in terms of 14.7 shall be deemed to have been selected</p> <p>14.3 Where <b>security</b> as a cash deposit of ten per cent (10%) of the <b>contract sum</b> (excluding VAT) has been selected:</p> <p>14.3.1 The <b>contractor</b> shall furnish the <b>employer</b> with a cash deposit equal in value to ten per cent (10%) of the <b>contract sum</b> (excluding VAT) within twenty-one (21) <b>calendar days</b> from <b>commencement date</b></p> <p>14.3.2 Within twenty-one (21) <b>calendar days</b> of the date of <b>practical completion</b> of the <b>works</b> the <b>employer</b> shall reduce the cash deposit to an amount equal to three per cent (3%) of the <b>contract value</b> (excluding VAT), and refund the balance to the <b>contractor</b></p> <p>14.3.3 Within twenty-one (21) <b>calendar days</b> of the date of <b>final completion</b> of the <b>works</b> the <b>employer</b> shall reduce the cash deposit to an amount equal to one per cent (1%) of the <b>contract value</b> (excluding VAT) and refund the balance to the <b>contractor</b></p> <p>14.3.4 On the date of payment of the amount in the final <b>payment certificate</b>, the <b>employer</b> shall refund the remainder of the cash deposit to the <b>contractor</b></p>			
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>		<p style="text-align: center;">R</p>	

<p>14.3.5 The <b>employer</b> shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the <b>employer</b> complies with the provisions of 33.4 in which event the <b>employer's</b> entitlement shall take precedence over his obligations to refund the cash deposit <b>security</b> or portions thereof to the <b>contractor</b></p> <p>14.3.6 The parties expressly agree that neither the <b>employer</b> nor the <b>contractor</b> shall be entitled to cede the rights to the deposit to any third party</p> <p>14.4 Where <b>security</b> as a variable <b>construction guarantee</b> of ten percent (10%) of the <b>contract sum</b> (excluding VAT) has been selected:</p> <p>14.4.1 The <b>contractor</b> shall furnish the <b>employer</b> with an acceptable variable <b>construction guarantee</b> equal in value to ten per cent (10%) of the <b>contract sum</b> (excluding VAT) within twenty-one (21) <b>calendar days</b> from <b>commencement date</b></p> <p>14.4.2 The variable <b>construction guarantee</b> shall reduce and expire in terms of the Variable <b>Construction Guarantee</b> form included in the invitation to tender</p> <p>14.4.3 The <b>employer</b> shall return the variable <b>construction guarantee</b> to the <b>contractor</b> within fourteen (14) <b>calendar days</b> of it expiring</p> <p>14.4.4 Where the <b>employer</b> has a right of recovery against the <b>contractor</b> in terms of 33.0, the <b>employer</b> shall issue a written demand in terms of the variable <b>construction guarantee</b></p> <p>14.5 Where <b>security</b> as a fixed <b>construction guarantee</b> of five per cent (5%) of the <b>contract sum</b> (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the <b>payment certificate</b> (excluding VAT) has been selected:</p> <p>14.5.1 The <b>contractor</b> shall furnish a fixed <b>construction guarantee</b> to the <b>employer</b> equal in value to five per cent (5%) of the <b>contract sum</b> (excluding VAT)</p> <p>14.5.2 The fixed <b>construction guarantee</b> shall come into force on the date of issue and shall expire on the date of the last certificate of <b>practical completion</b></p>			
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>		R	

<p>14.5.3 The <b>employer</b> shall return the fixed <b>construction guarantee</b> to the <b>contractor</b> within fourteen (14) <b>calendar days</b> of it expiring</p> <p>14.5.4 The payment reduction of the value certified in a <b>payment certificate</b> shall be in terms of 31.8 (A) and 34.8</p> <p>14.5.5 Where the <b>employer</b> has a right of recovery against the <b>contractor</b> in terms of 33.0, the <b>employer</b> shall be entitled to issue a written demand in terms of the fixed <b>construction guarantee</b> or may recover from the payment reduction or may do both</p> <p>14.6 Where <b>security</b> as a cash deposit of five per cent (5%) of the <b>contract sum</b> (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the <b>payment certificate</b> (excluding VAT) has been selected:</p> <p>14.6.1 The <b>contractor</b> shall furnish the <b>employer</b> with a cash deposit equal in value to five per cent (5%) of the <b>contract sum</b> (excluding VAT) within twenty-one (21) <b>calendar days</b> from <b>commencement date</b></p> <p>14.6.2 Within twenty-one (21) <b>calendar days</b> of the date of <b>practical completion</b> of the <b>works</b> the <b>employer</b> shall refund the cash deposit in total to the <b>contractor</b></p> <p>14.6.3 The payment reduction of the value certified in a <b>payment certificate</b> shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>14.6.4 Where the <b>employer</b> has a right of recovery against the <b>contractor</b> in terms of 33.0, the <b>employer</b> 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 <b>security</b> as a payment reduction of ten per cent (10%) of the value certified in the <b>payment certificate</b> (excluding VAT) has been selected:</p> <p>14.7.1 The payment reduction of the value certified in a <b>payment certificate</b> shall be <i>mutatis mutandi</i> in terms of 31.8(B)</p>			
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>		R	

<p>15</p>	<p>14.7.2 The <b>employer</b> shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the <b>employer</b> complies with the provisions of 33.4 in which event the <b>employer's</b> entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the <b>contractor</b></p> <p>14.8 Payments made by the guarantor to the <b>employer</b> in terms of the fixed or variable <b>construction guarantee</b> shall not prejudice the rights of the <b>employer</b> or <b>contractor</b> in terms of this <b>agreement</b></p> <p>14.9 Should the <b>contractor</b> fail to furnish the <b>security</b> in terms of 14.2, the <b>employer</b>, in his sole discretion and without notification to the <b>contractor</b>, is entitled to change the <b>contractor's</b> selected form of <b>security</b> to that of a ten per cent (10%) payment reduction of the value certified in the <b>payment certificate</b> (excluding VAT), whereafter 14.7 shall be applicable</p> <p>F:..... V:..... T:.....</p> <p><b>EXECUTION</b></p> <p><b>A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS</b></p> <p>Clause 15.1 Amend to read as follows: "The contractor shall, on acceptance of the tender or negotiated amount and upon the instruction of the principal agent, adjust prices which are considered to be imbalanced or unreasonable and to eliminate errors or discrepancies. Such adjustments shall be effected to the approval of the principal agent and shall not change the contract sum."</p> <p>Clause 15.1.1 is amended by replacing it with: No clause</p> <p>Clause 15.1.2 is amended by replacing it with: The <b>security</b> selected in terms of 14.0</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>	<p>Item</p>	<p>R</p>	
-----------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------	----------	--

	<p>Clause 15.1 is amended by the addition of the following clause:</p> <p>15.1.4 The contractor shall, within fourteen (14) <b>calendar days of commencement date</b>, submit to the principal agent, an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993).</p> <p>Clause 15.2.1 is amended by replacing it with the following clause:</p> <p>Give the <b>contractor</b> possession of the site within ten (10) working days of the <b>contractor</b> complying with the terms of 15.1.4</p> <p>After 15.4 add the following:</p> <p>15.5 The <b>contractor</b> shall provide everything necessary for the proper execution of the works and shall carry out and complete the works in compliance with the contract documents, using materials and workmanship of the quality and standards specified therein, provided that such quality and standards shall be to the reasonable satisfaction of the <b>principal agent</b>.</p> <p>15.6 The contractor shall:</p> <p>15.6.1 Prepare and submit to the <b>principal agent</b> within twenty-one (21) <b>working days</b> of the <b>commencement date</b>, a detailed programme of the works and cash-flow projections together with a schedule of outstanding construction information in sufficient detail to enable the <b>principal agent</b> to assess the progress of the works and timeously provide the necessary contract instructions, and</p> <p>15.6.2 Coordinate the <b>n/s subcontractors'</b> and <b>direct contractors'</b> programmes with his own, and</p> <p>15.6.3 Continuously revise and modify the programme and the schedule of outstanding construction information and issue copies timeously to the <b>principal agent</b>.</p> <p>15.7 The <b>contractor</b> shall provide all reasonable assistance to the <b>principal agent</b> in the preparation of cash flow projections where required by the <b>employer</b>. The projections shall be based on the <b>contractor's</b> programme and shall be updated as and when</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>			
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--

	necessary.  15.8 The <b>principal agent</b> and the <b>contractor</b> shall hold regular meetings related to the progress of the works and at such other times as may be necessary. The <b>principal agent</b> shall record and distribute the minutes of the meetings. At the request of the <b>principal agent</b> or the <b>contractor</b> meetings shall be held to deal with technical and <b>n/s subcontractors'</b> coordination matters.  15.9 The <b>contractor</b> shall maintain daily records of the number and categories of persons and plant employed on the works and shall provide copies thereof to the <b>principal agent</b> on request.  F:..... V:..... T:.....				
16	<b>A16.0 ACCESS TO THE WORKS</b>  Clause 16.0  F:..... V:..... T:.....	Item			
17	<b>A17.0 CONTRACT INSTRUCTIONS</b>  Clause 17.0  Clause 17.1.11 is amended by deleting the words "and the appointment of <b>nominated</b> and <b>selected subcontractors</b> "  F:..... V:..... T:.....	Item			
18	<b>A18.0 SETTING OUT OF THE WORKS</b>  Clause 18.0  F:..... V:..... T:.....	Item			
19	<b>A19.0 ASSIGNMENT</b>  Clause 19.0  F:..... V:..... T:.....	Item			
<b>Carried to Collection</b>					
Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General				R	

<p>20</p>	<p><b>A20.0 NOMINATED SUBCONTRACTORS</b></p> <p>Clause 20.0</p> <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 <b>nominated subcontractors</b> executing work allowed for under provisional sums</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>21</p>	<p><b>A21.0 SELECTED SUBCONTRACTORS</b></p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No clause</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>22</p>	<p><b>A22.0 EMPLOYER'S DIRECT CONTRACTORS</b></p> <p>Clause 22.0</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>23</p>	<p><b>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</b></p> <p>Clause 23.0</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>			<p>R</p>	

24	<p><b><u>COMPLETION</u></b></p> <p><b>A24.0 PRACTICAL COMPLETION</b></p> <p>Clause 24.0</p> <p>F:..... V:..... T:.....</p>	Item		
25	<p><b>A25.0 WORKS COMPLETION</b></p> <p>Clause 25.0</p> <p>F:..... V:..... T:.....</p>	Item		
26	<p><b>A26.0 FINAL COMPLETION</b></p> <p>Clause 26.0</p> <p>Clause 26.1.2 is amended by inserting "#" next to 26.1.2</p> <p>F:..... V:..... T:.....</p>	Item		
27	<p><b>A27.0 LATENT DEFECTS LIABILITY PERIOD</b></p> <p>Clause 27.0</p> <p>F:..... V:..... T:.....</p>	Item		
28	<p><b>A28.0 SECTIONAL COMPLETION</b></p> <p>Clause 28.0</p> <p>F:..... V:..... T:.....</p>	Item		
<p><b>Carried to Collection</b></p>			R	
<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>				

<p>29</p>	<p><b>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</b></p> <p>Clause 29.0</p> <p>Clause 29.2.5 is amended by replacing it with:</p> <p>No clause</p> <p>F:..... V:..... T:.....</p>				
<p>30</p>	<p><b>A30.0 PENALTY FOR NON-COMPLETION</b></p> <p>Clause 30.0</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>			
<p>31</p>	<p><b><u>PAYMENT</u></b></p> <p><b>A31.0 INTERIM PAYMENT TO THE CONTRACTOR</b></p> <p>Clause 31.0</p> <p>Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"</p> <p>Clause 31.8 is amended by replacing it with the following two alternative clauses:</p> <p><b>Alternative A</b></p> <p>31.8(A) Where a <b>security</b> is selected in terms of 14.1; 14.5 or 14.6, the value of the <b>works</b> in terms of 31.4.1 and <b>materials and goods</b> 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(A).1 Ninety-five per cent (95%) of such value in interim <b>payment certificates</b> issued up to the date of <b>practical completion</b></p> <p>31.8(A).2 Ninety-seven per cent (97%) of such value in interim <b>payment certificates</b> issued on the date of <b>practical completion</b> and up to but excluding the date of <b>final completion</b></p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>	<p>Item</p>		<p>R</p>	

<p>31.8(A).3 Ninety-nine per cent (99%) of such value in interim <b>payment certificates</b> issued on the date of <b>final completion</b> and up to but excluding the final <b>payment certificate</b> in terms of 34.6</p>	<p>31.8(A).4 One hundred per cent (100%) of such value in the final <b>payment certificate</b> in terms of 34.6 except where the amount certified is in favour of the <b>employer</b>. In such an event the payment reduction shall remain at the adjustment level applicable to the final <b>payment certificate</b></p>	<p><b>Alternative B</b></p>	<p>31.8(B) Where <b>security</b> as a payment reduction in terms of 14.7 has been selected, the value of the <b>works</b> in terms of 31.4.1 and <b>materials and goods</b> 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 <b>payment certificates</b> issued up to the date of <b>practical completion</b></p>	<p>31.8(B).2 Ninety-seven per cent (97%) of such value in interim <b>payment certificates</b> issued on the date of <b>practical completion</b> and up to but excluding the date of <b>final completion</b></p>	<p>31.8(B).3 Ninety-nine per cent (99%) of such value in interim <b>payment certificates</b> issued on the date of <b>final completion</b> and up to but excluding the final <b>payment certificate</b> in terms of 34.6</p>	<p>31.8(B).4 One hundred per cent (100%) of such value in the final <b>payment certificate</b> in terms of 34.6 except where the amount certified is in favour of the <b>employer</b>. In such an event the payment reduction shall remain at the adjustment level applicable to the final <b>payment certificate</b></p>	<p>Clause 31.12 is amended by deleting the following:</p>	<p><b>Carried to Collection</b></p>	<p>R</p>	<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------	-------------------------------------	----------	-------------------------------------------------------------------------------------------------

<p>32</p>	<p>Payment shall be subject to the <b>employer</b> giving the <b>contractor</b> a tax invoice for the amount due</p> <p>F:..... V:..... T:.....</p> <p><b>A32.0 ADJUSTMENT TO THE CONTRACT VALUE</b></p> <p>Clause 32.0</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 <b>contractor</b>"</p>	<p>Item</p>		
<p>33</p>	<p>F:..... V:..... T:.....</p> <p><b>A33.0 RECOVERY OF EXPENSE AND LOSS</b></p> <p>Clause 33.0</p>	<p>Item</p>		
<p>34</p>	<p>F:..... V:..... T:.....</p> <p><b>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</b></p> <p>Clause 34.0</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 <b>security</b> as a fixed <b>construction guarantee</b> 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) <b>calendar days</b>" with "twenty-one (21) <b>calendar days</b>" and deleting the words "subject to the <b>employer</b> giving the <b>contractor</b> a tax invoice for the amount due"</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p><b>Carried to Collection</b></p>			<p>R</p>	
<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>				

<p>35</p>	<p><b>A35.0 PAYMENT TO OTHER PARTIES</b></p> <p>Clause 35.0</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
	<p><b><u>CANCELLATION</u></b></p> <p><b>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</b></p> <p>Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</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 <b>employer</b>, has engaged in <b>corrupt</b> or <b>fraudulent practices</b> in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "<b>principal agent</b>" with "<b>employer</b>"</p> <p>Clause 36.0 is amended by the addition of the following clause:</p> <p>36.7 Notwithstanding any clause to the contrary, on cancellation of this <b>agreement</b> either by the <b>employer</b> or the <b>contractor</b>; or for any reason whatsoever, the <b>contractor</b> shall on written instruction, discontinue with the <b>works</b> on a date stated and withdraw himself from the <b>site</b>. The <b>contractor</b> shall not be entitled to refuse to withdraw from the <b>works</b> on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
	<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>		<p style="text-align: center;">R</p>	

<p>37</p>	<p><b>A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</b></p> <p>Clause 37.0</p> <p>Clause 37.3.5 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p> <p>Clause 37.0 is amended by the addition of the following clause:</p> <p>37.5 Notwithstanding any clause to the contrary, on cancellation of this <b>agreement</b> either by the <b>employer</b> or the <b>contractor</b>; or for any reason whatsoever, the <b>contractor</b> shall on written instruction, discontinue with the <b>works</b> on a date stated and withdraw himself from the <b>site</b>. The <b>contractor</b> shall not be entitled to refuse to withdraw from the <b>works</b> on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>38</p>	<p><b>A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</b></p> <p>Clause 38.0</p> <p>Clause 38.5.4 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p> <p>Clause 38.0 is amended by the addition of the following clause:</p> <p>38.7 Notwithstanding any clause to the contrary, on cancellation of this <b>agreement</b> either by the <b>employer</b> or the <b>contractor</b>; or for any reason whatsoever, the <b>contractor</b> shall on written instruction, discontinue with the <b>works</b> on a date stated and withdraw himself from the <b>site</b>. The <b>contractor</b> shall not be entitled to refuse to withdraw from the <b>works</b> on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>			<p style="text-align: center;">R</p>	

<p>39</p>	<p><b>A39.0 CANCELLATION - CESSATION OF THE WORKS</b></p> <p>Clause 39.0</p> <p>Clause 39.3.5 is amended by the addition of the following at the end of the sentence:</p> <p>"within one hundred and twenty (120) <b>working days</b> of completion of such a report"</p> <p>F:..... V:..... T:.....</p> <p><b><u>DISPUTE</u></b></p>	<p>Item</p>		
<p>40</p>	<p><b>A40.0 DISPUTE SETTLEMENT</b></p> <p>Clause 40.0</p> <p>Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"</p> <p>Clause 40.6 is amended by removing the reference to:</p> <p>No clause</p> <p>Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:</p> <p>Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the <b>mediator</b> and related costs</p> <p>F:..... V:..... T:.....</p> <p><b><u>SUBSTITUTE PROVISIONS</u></b></p>	<p>Item</p>		
<p>41</p>	<p><b>A41.0 STATE CLAUSES</b></p> <p>Clause 41.0</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p><b>Carried to Collection</b></p>			<p>R</p>	
<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>				



48	<b>B2.5 Priced documents</b>  F:..... V:..... T:.....	Item		
49	<b>B2.6 Tender submission</b>  Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)"  F:..... V:..... T:.....	Item		
<b><u>B3.0 THE SITE</u></b>				
50	<b>B3.1 Defined works area</b>  F:..... V:..... T:.....	Item		
51	<b>B3.2 Geotechnical investigation</b>  F:..... V:..... T:.....	Item		
52	<b>B3.3 Inspection of the site</b>  F:..... V:..... T:.....	Item		
53	<b>B3.4 Existing premises occupied</b>  F:..... V:..... T:.....	Item		
54	<b>B3.5 Previous work - dimensional accuracy</b>  F:..... V:..... T:.....	Item		
55	<b>B3.6 Previous work - defects</b>  F:..... V:..... T:.....	Item		
<b>Carried to Collection</b>				
Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General			R	

56	<b>B3.7 Services - known</b>  F:..... V:..... T:.....	Item		
57	<b>B3.8 Services - unknown</b>  F:..... V:..... T:.....	Item		
58	<b>B3.9 Protection of trees</b>  F:..... V:..... T:.....	Item		
59	<b>B3.10 Articles of value</b>  F:..... V:..... T:.....	Item		
60	<b>B3.11 Inspection of adjoining properties</b>  F:..... V:..... T:.....	Item		
<b><u>B4.0 MANAGEMENT OF CONTRACT</u></b>				
61	<b>B4.1 Management of the works</b>  F:..... V:..... T:.....	Item		
62	<b>B4.2 Programme for the works</b>  F:..... V:..... T:.....	Item		
63	<b>B4.3 Progress meetings</b>  F:..... V:..... T:.....	Item		
64	<b>B4.4 Technical meetings</b>  F:..... V:..... T:.....	Item		
<b>Carried to Collection</b>				
Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General			R	

65	<b>B4.5 Labour and plant records</b>  F:..... V:..... T:.....	Item		
<b><u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u></b>				
66	<b>B5.1 Samples of materials</b>  F:..... V:..... T:.....	Item		
67	<b>B5.2 Workmanship samples</b>  F:..... V:..... T:.....	Item		
68	<b>B5.3 Shop drawings</b>  F:..... V:..... T:.....	Item		
69	<b>B5.4 Compliance with manufacturers' instructions</b>  F:..... V:..... T:.....	Item		
<b><u>B6.0 TEMPORARY WORKS AND PLANT</u></b>				
70	<b>B6.1 Deposits and fees</b>  F:..... V:..... T:.....	Item		
71	<b>B6.2 Enclosure of the works</b>  F:..... V:..... T:.....	Item		
72	<b>B6.3 Advertising</b>  F:..... V:..... T:.....	Item		
<b>Carried to Collection</b>				
Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General			R	

73	<b>B6.4 Plant, equipment, sheds and offices</b>  F:..... V:..... T:.....	Item		
74	<b>B6.5 Main notice board</b>  F:..... V:..... T:.....	Item		
75	<b>B6.6 Subcontractors' notice board</b>  F:..... V:..... T:.....	Item		
	<b><u>B7.0 TEMPORARY SERVICES</u></b>			
76	<b>B7.1 Location</b>  F:..... V:..... T:.....	Item		
77	<b>B7.2 Water</b>  F:..... V:..... T:.....	Item		
78	<b>B7.3 Electricity</b>  F:..... V:..... T:.....	Item		
79	<b>B7.4 Telecommunication facilities</b>  F:..... V:..... T:.....	Item		
80	<b>B7.5 Ablution facilities</b>  F:..... V:..... T:.....	Item		
	<b>Carried to Collection</b>			
	Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General		R	

81	<p><b><u>B8.0 PRIME COST AMOUNTS</u></b></p> <p><b>B8.1 Responsibility for prime cost amounts</b></p> <p>F:..... V:..... T:.....</p> <p><b><u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u></b></p> <p><b>B9.1 General attendance</b></p> <p>F:..... V:..... T:.....</p> <p><b>B9.2 Special attendance</b></p> <p>F:..... V:..... T:.....</p> <p><b>B9.3 Commissioning - fuel, water and electricity</b></p> <p>F:..... V:..... T:.....</p> <p><b><u>B10.0 FINANCIAL ASPECTS</u></b></p> <p><b>B10.1 Statutory taxes, duties and levies</b></p> <p>F:..... V:..... T:.....</p> <p><b>B10.2 Payment for preliminaries</b></p> <p>F:..... V:..... T:.....</p> <p><b>B10.3 Adjustment of preliminaries</b></p> <p>Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) <b>working days</b> of taking possession of the <b>site</b>" with "when submitting his priced <b>bills of quantities / lump sum document</b>"</p> <p>F:..... V:..... T:.....</p>	Item		
82		Item		
83		Item		
84		Item		
85		Item		
86		Item		
87		Item		
	<b>Carried to Collection</b>		R	
	Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General			

88	<b>B10.4</b> <i>Payment certificate cash flow</i>  F:..... V:..... T:.....	Item		
	<b><u>B11.0 GENERAL</u></b>			
89	<b>B11.1</b> <i>Protection of the works</i>  F:..... V:..... T:.....	Item		
90	<b>B11.2</b> <i>Protection / isolation of existing / sectionally occupied works</i>  F:..... V:..... T:.....	Item		
91	<b>B11.3</b> <i>Security of the works</i>  F:..... V:..... T:.....	Item		
92	<b>B11.4</b> <i>Notice before covering work</i>  F:..... V:..... T:.....	Item		
93	<b>B11.5</b> <i>Disturbance</i>  F:..... V:..... T:.....	Item		
94	<b>B11.6</b> <i>Environmental disturbance</i>  F:..... V:..... T:.....	Item		
95	<b>B11.7</b> <i>Works cleaning and clearing</i>  F:..... V:..... T:.....	Item		
96	<b>B11.8</b> <i>Vermin</i>  F:..... V:..... T:.....	Item		
	<b>Carried to Collection</b>			
	Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General		R	

97	<p><b>B11.9 Overhand work</b></p> <p>F:..... V:..... T:.....</p>	Item		
98	<p><b>B11.10 Instruction manuals and guarantees</b></p> <p>F:..... V:..... T:.....</p>	Item		
99	<p><b>B11.11 As built information</b></p> <p>F:..... V:..... T:.....</p>	Item		
100	<p><b>B11.12 Tenant installations</b></p> <p>F:..... V:..... T:.....</p>	Item		
	<p><b><u>B12.0 SCHEDULE OF VARIABLES</u></b></p>			
101	<p><b>B12.1 Schedule of variables</b></p> <p>F:..... V:..... T:.....</p> <p>This <b>schedule</b> 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 <b>Preliminaries</b></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 <b>schedule</b>. Key cross reference clauses are italicised in [ ] brackets</p> <p><b>12.1 PRE-TENDER INFORMATION</b></p> <p>12.1.1 <b>Provisional bills of quantities</b> [2.2] The quantities are provisional YES</p>	Item		
<p><b>Carried to Collection</b></p>			R	
<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>				

<p>12.1.2 <b>Availability of construction documentation</b> [2.3] <i>Construction documentation is complete</i> NO</p> <p>12.1.3 <b>Interests of agents</b> [2.4] Details:</p> <p>12.1.4 <b>Defined works area</b> [3.1] Details:</p> <p>Tenderers should note that the site will be occupied by hospital staff, patients and other contractors.</p> <p>12.1.5 <b>Geotechnical investigation</b> [3.2] Details:</p> <p>Refer to attached Geotechnical Investigation Report.</p> <p>12.1.6 <b>Existing premises occupied</b> [3.4] Specific requirements:</p> <p>Tenderers should note that the site will be occupied by hospital staff, patients and other contractors.</p> <p>12.1.7 <b>Previous work - dimensional accuracy</b> [3.5] Details:</p> <p>Prior to commencement of any work the contractor is reminded to check the dimensional accuracy of any previous work in terms of this clause.</p> <p>12.1.8 <b>Previous work - defects</b> [3.6] Details:</p> <p>12.1.9 <b>Services - known</b> [3.7] Details:</p> <p>12.1.10 <b>Protection of trees</b> [3.9] Specific requirements:</p> <p>12.1.11 <b>Inspection of adjoining properties</b> [3.11] Specific requirements:</p>				
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>			R	

<p>12.1.12 <b>Enclosure of the works</b> [6.2] Specific requirements:</p>	<p>12.1.13 <b>Offices</b> [6.4.3] Specific requirements: The <b>contractor</b> shall provide, maintain and remove on completion of the works an office for the exclusive use of the <b>principal agent</b>, 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>12.1.14 <b>Main notice board</b> [6.5] Specific requirements: The <b>contractor</b> shall provide, erect where directed, maintain and remove on completion of the <b>works</b> 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</p>	<p>12.1.15 <b>Subcontractors' notice board</b> [6.6] <i>A notice board is required</i> <i>NO</i> Specific requirements:</p>	<p><b>Carried to Collection</b></p>	<p>R</p>
<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>					

<p>12.1.16 <b>Water</b> [7.2] Option A (by <b>contractor</b>) YES</p> <p>Option B (by <b>employer</b> - free of charge) NO</p> <p>Option C (by <b>employer</b> - metered) NO</p>	<p>12.1.17 <b>Electricity</b> [7.3] Option A (by <b>contractor</b>) YES</p> <p>Option B (by <b>employer</b> - free of charge) NO</p> <p>Option C (by <b>employer</b> - metered) NO</p>	<p>12.1.18 <b>Telecommunications</b> [7.4] Telephone YES</p> <p>Facsimile YES</p> <p>E-mail YES</p>	<p>12.1.19 <b>Ablution facilities</b> [7.5] Option A (by <b>contractor</b>) YES</p> <p>Option B (by <b>employer</b>) NO</p>	<p>12.1.20 <b>Protection of existing/sectionally occupied works</b> [11.2] Protection is required YES</p>	<p><b>Carried to Collection</b></p>	<p>R</p>	<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>

<p>12.1.21 <b>Special attendance</b> [9.2] <b>Subcontractor</b> (1) details:</p> <p><b>Subcontractor</b> (2) details:</p> <p><b>Subcontractor</b> (3) details:</p> <p><b>Subcontractor</b> (4) details:</p>	<p>12.1.22 <b>Protection of the works</b> [11.1] Specific requirements:</p>	<p>12.1.23 <b>Disturbance</b> [11.5] Specific requirements: The <b>contractor</b> shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the <b>works</b> all necessary temporary dust screens all to the satisfaction of the <b>principal agent</b></p>	<p>12.1.24 <b>Environmental disturbance</b> [11.6] Specific requirements:</p>	<p><b>12.2 POST-TENDER INFORMATION</b></p>	<p>12.2.1 <b>Payment of preliminaries</b> [10.2] Option A (prorated) YES/NO</p>	<p>Option B (calculated) YES/NO</p>	<p>12.2.2 <b>Adjustment of preliminaries</b> [10.3] Option A (three categories) YES/NO</p>	<p>Option B (detailed breakdown) YES/NO</p>	<p><b>Carried to Collection</b></p>	<p>R</p>	<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------	--------------------------------------------	-----------------------------------------------------------------------------------------	-----------------------------------------	----------------------------------------------------------------------------------------------------	-------------------------------------------------	-------------------------------------	----------	-------------------------------------------------------------------------------------------------

	<p>12.2.3 <b>Additional agreed preliminaries items</b> Details:</p>			
<p>102</p>	<p><b>SECTION C: SPECIFIC PRELIMINARIES</b></p> <p><b>Section C</b> contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item</p> <p><b>C1.0 CONTRACT DRAWINGS</b></p> <p>* 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 <b>works</b> and the manner in which they are to be executed</p> <p>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 <b>principal agent</b></p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>103</p>	<p><b>C2.0 GENERAL PREAMBLES</b></p> <p>The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Department, and shall be read in conjunction with the <b>bills of quantities / lump sum document</b> and be referred to for the full descriptions of work to be done and materials to be used</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
	<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>		<p style="text-align: center;">R</p>	

<p>104</p>	<p><b>C3.0 TRADE NAMES</b></p> <p>Wherever a trade name for any product has been described in the <b>bills of quantities / lump sum document</b>, 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 <b>principal agent</b> 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>	<p>Item</p>		
<p>105</p>	<p><b>C4.0 IMPORTED MATERIALS AND EQUIPMENT</b></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>	<p>Item</p>		
<p>106</p>	<p><b>C5.0 VIEWING THE SITE IN SECURITY AREAS</b></p> <p>The <b>site</b> 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 <b>site</b> for tendering purposes</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>			<p style="text-align: center;">R</p>	

<p>107</p>	<p><b>C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS</b></p> <p>As the <b>works</b> falls within a security area the <b>contractor</b> must give the unit commander or other responsible officer notice before commencement of the <b>works</b>. Should the <b>contractor</b> fail to make such arrangements, admission to the <b>site</b> may be refused and any additional costs will be for the <b>contractor's</b> account</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>108</p>	<p><b>C7.0 ENTRANCE PERMITS TO SECURITY AREAS</b></p> <p>As the <b>works</b> falls within a security area the <b>contractor</b> 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</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>109</p>	<p><b>C8.0 SECURITY CHECK OF PERSONNEL</b></p> <p>The <b>principal agent</b> may require the <b>contractor</b> to have his personnel and workmen, or a certain number of them, security classified</p> <p>In the event of the <b>principal agent</b> requesting the removal of a person or persons from the <b>works</b> for security reasons, the <b>contractor</b> shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the <b>works</b> and the <b>site</b> and/or to any document or information relating to the <b>works</b></p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>			<p style="text-align: center;">R</p>	

110	<p><b>C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS</b></p> <p>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</p> <p>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</p> <p>F:..... V:..... T:.....</p>			
111	<p><b>C10.0 HIV/AIDS AWARENESS</b></p> <p>It is required of the <b>contractor</b> 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 <b>bills of quantities / lump sum document</b>. 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</p> <p>The <b>contractor</b> must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the <b>principal agent</b>, 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 <b>payment certificate</b> until the <b>contractor</b> provides satisfactory proof of compliance. The <b>contractor</b> shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p>	Item		<p style="text-align: center;"><b>Carried to Collection</b></p> <p style="text-align: right;">R</p>
<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>				

<p><b>C10.1 AWARENESS CHAMPION</b></p>	<p>Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification</p>	Item	F:..... V:..... T:.....
<p><b>C10.2 AWARENESS WORKSHOPS</b></p>	<p>Selection and appointment of a competent Service Provider approved by the <b>principal agent</b>, 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>	Item	F:..... V:..... T:.....
<p><b>C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.</b></p>	<p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the <b>construction period</b>, all in accordance with the HIV/AIDS Specification</p>	Item	F:..... V:..... T:.....
<p><b>C10.4 ACCESS TO CONDOMS</b></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 <b>construction period</b>, all in accordance with the HIV/AIDS Specification</p>	Item	F:..... V:..... T:.....
<p><b>Carried to Collection</b></p>		R	
<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>			

<p>112</p>	<p><b>C10.5 MONITORING</b></p> <p>Monitoring HIV/AIDS awareness of workers, providing the <b>principal agent</b> with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the <b>construction period</b> and close out, all in accordance with the HIV/AIDS Specification</p> <p>F:..... V:..... T:.....</p> <p><b>C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT</b></p> <p>The <b>contractor</b> shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p> <p>It is required of the <b>contractor</b> 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 <b>bills of quantities / lump sum document</b></p> <p>The <b>contractor</b> 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 <b>principal agent</b>, 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 <b>payment certificate</b> until the <b>contractor</b> provides satisfactory proof of compliance. The <b>contractor</b> shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p> <p>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</p> <p>F:..... V:..... T:.....</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>	<p>Item</p> <p>Item</p>	<p></p> <p></p>	<p></p> <p></p> <p style="text-align: center;">R</p>
------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------	-----------------	------------------------------------------------------

<p>113</p>	<p><b>C11.1 NOTIFICATION OF CONSTRUCTION WORK (Construction Regulation 3)</b></p> <p>The Contractor shall, before commencing work, notify the Department of Labour of the intended construction work in terms of Regulation 3. The Contractor shall submit the notification in writing, on the appropriate form, prior to commencement of work</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>114</p>	<p><b>C11.2 HEALTH AND SAFETY PLAN (Construction Regulation 5.4)</b></p> <p>The Contractor shall provide and demonstrate to the Principal Agent a suitable and sufficiently documented health and safety plan based on the Act, Construction Regulations and the health and safety specification, which shall be applied from the date of commencement of and for the duration of the construction work. The Contractor shall ensure that a copy of the health and safety plan is available on request to an employee, inspector, sub contractor or principal agent all in terms of Regulation 5</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>115</p>	<p><b>C11.3 REGISTRATION WITH THE COMPENSATION FUND (Construction Regulation 5.3 f)</b></p> <p>The Contractor shall provide proof of his registration and good standing with the Compensation Fund or a licensed compensation insurer prior to the commencement of work</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>			<p style="text-align: center;">R</p>	

116	<p><b>C11.4 HEALTH AND SAFETY FILE ( Construction Regulation 5.7)</b></p> <p>The Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the health and safety specification, the Act and the Construction Regulations, is opened and kept on site and made available to the Principal Agent or Inspector upon request. Upon completion of the works, the Contractor shall hand over a consolidated health and safety file to the principal agent</p> <p>F:..... V:..... T:.....</p>	Item		
117	<p><b>C11.5 SUPERVISION OF CONSTRUCTION WORK (SAFETY OFFICER) (Construction Regulation 6)</b></p> <p>The Contractor shall appoint a full-time competent employee in writing as the construction supervisor, with the duty of supervising the construction work. The Contractor shall appoint a full-time or part-time construction safety officer in writing to assist in the control of all safety related aspects on the site. Such appointments are required to ensure that at all times the requirements of the Act and Construction Regulations are adhered to. Refer to Regulation 6</p> <p>F:..... V:..... T:.....</p>	Item		
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>			R	

<p>118</p>	<p><b>C11.6 RISK ASSESSMENT AND SAFETY POLICY (Construction Regulation 7)</b></p> <p>Before commencing work the Contractor shall cause a risk assessment to be performed by a competent person appointed in writing and the risk assessment shall form part of the health and safety plan. A copy of the risk assessment shall be available on site at all times for inspection.</p> <p>The Contractor shall at all time carry out the works in a manner to avoid the risk of bodily harm to persons or risk of damage to any property. He shall take all precautions regarding training of employees in any hazards and the related work procedures, health and safety induction training of employees, visitors or any other persons entering the site and provide personal protective equipment to all employees and visitors to site which are necessary and adequate to eliminate any conditions which contribute to the risk of injury to persons or damage to property in terms of Regulation 7</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>119</p>	<p><b>C11.7 SIGNIFICANT HAZARDA IDENTIFICATION RISK ASSESSMENT PREPARED BY THE DESIGN CONSULTANTS</b></p> <p>The contractor shall allow for additional financial provision, if any, to take the necessary precautions regarding the significant hazards and risks identified and assessed by the design consultants</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>120</p>	<p><b>C11.8 ADDITIONAL FINANCIAL PROVISION</b></p> <p>The Contractor shall allow for additional financial provision, if any, to comply with the requirements of the Occupational Health and Safety Act (Act No 85 of 1993) and the Construction Regulations issued there under which have not been specifically elsewhere provided</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>			<p>R</p>	

<p>121</p>	<p><b>C11.9 FALL PROTECTION PLAN (Construction Regulation 8)</b></p> <p>The contractor shall, before commencing any construction work submit a fall protection plan identified all steps to be taken in order to ensure the continued adherence to the fall protection plan and shall include a risk assessment of all work carried out from an relevant position. The fall protection plan shall form part of the health and safety plan and file</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>122</p>	<p><b>C11.10 PHYSICAL AND PSYCHOLOGICAL FITNESS (Construction Regulation 8.2(b))</b></p> <p>The contractor and sub-contractors shall before commencing any construction work submit proof of his employees that shall carried out work from an elevated position their physical and psychological fitness. And shall be recorded in the health and safety file</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>123</p>	<p><b>C11.11 CONSTRUCTION VEHICLES AND MOBILE PLANT (Construction Regulation 21)</b></p> <p>The contractor and sub-contractors shall ensure that all operated workers received training and been certified competent to operate such vehicle, and are physical and psychological fit to operate such construction vehicles and mobile plants. And shall be recorded in the health and safety file</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>124</p>	<p><b>C11.12 TRAINING (Construction Regulation 8 (c))</b></p> <p>The contractor and sub-contractors shall, before commencing any construction work, submit his training program of all his employees. This program shall from part of the health and safety plan</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>			<p style="text-align: center;">R</p>	

125	<p><b>C11.13 DEMOLITION WORK (Construction Regulation 12)</b></p> <p>The contractor shall, before any demolition work shall carried out, submit all method of demolition to be used. This method shall form part of the health and safety plan and file.</p> <p>F:..... V:..... T:.....</p>	Item		
126	<p><b>C11.14 REMOVAL AND DISPOSAL OF ASBESTOS MATERIAL (Asbestos Regulation)</b></p> <p>The principle contractor shall appoint a contractor that is registered with the Department of Labour as an AIA. The contractor must allow for;</p> <p>NOTIFICATION OF ASBESTOS PROCESSING PERSONAL PROTECTIVE EQUIPMENT PACKAGING AND TRANSPORT AND STORAGE TO DISPOSAL SITE DEMOLITION WORK OF SHEETS LABELLING AND INFORMATION</p> <p>F:..... V:..... T:.....</p>	Item		
127	<p><b>C12.0 SCAFFOLDING</b></p> <p>No scaffolding is measured as these Bills of Quantities are based on the sixth edition of the Standard System for Measuring Building Work. However, the Tenderer is advised to study the drawings as scaffolding may be required in certain areas for use by himself and selected/nominated subcontractors and the contractor must establish or otherwise required by him or selected/nominated subcontractor including taking down and re-erecting as may be necessary and no claims whatsoever will be entertained.</p> <p>F:..... V:..... T:.....</p>	Item		
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>			R	

**SUMMARY OF CATEGORIES**

Category : Fixed:.....

Category : Value:.....

Category : Time:.....

**Carried to Collection**

R

Section No. 1  
 Preliminaries and General  
 Bill No. 1  
 Preliminaries and General

<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138</p>		<p><b>Amount</b></p> <p>-----</p>	
<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General</p>	<p><b>Carried Forward</b></p>	<p>R</p>		

Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General <u>COLLECTION</u>			
	Page No	R	Amount
<b>Brought Forward</b>			
Total Brought Forward from Page No.	139		
	140		
	141		
	142		
	143		
	144		
	145		
	146		
	147		
	148		
	149		
	150		
	151		
	152		
	153		
	154		
	155		
<b>Carried Forward</b>		R	

Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General <u>COLLECTION</u>			
	Page No	R	Amount
<b>Brought Forward</b>			
Total Brought Forward from Page No.	156		
	157		
	158		
	159		
	160		
	161		
	162		
	163		
	164		
	165		
	166		
	167		
<b>Carried to Final Summary</b>		R	
Section No. 1 Preliminaries and General Bill No. 1 Preliminaries and General			

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>1. The Tenderer is advised to visit the site, inspect the existing premises and acquaint himself thoroughly with the nature of the work specified.</p> <p>2. All sizes and dimensions stated herein are approximate and deemed only sufficient to identify the item of work concerned.</p> <p>3. No allowance for overbreak has been made to any of the adjoining structures, walls, finishes, etc., where removals or pockets occur (the nett opening size, etc., has been made good in later items of this bill where such making good has not been included with the item) and the Contractor must allow in his prices for making good any overbreak that may occur.</p> <p>4. All new finishes are measured in the relevant trades for new work.</p> <p>5. Provide all necessary propping, etc., required to ensure the safety and stability of the structure during the contract period and remove at completion.</p> <p>6. Provide all necessary additional barricades, screens, overhead protections, etc., required to ensure the safety of persons, property, etc., and remove at completion.</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 1 Alterations</p>			<p style="text-align: right;">R</p>

<p>7. Allow for watering the works sufficiently to prevent nuisance from dust.</p> <p>8. All alteration works described hereunder shall imply the use of an approved screed or plaster repairing compound and preparing existing surfaces to receive new.</p> <p>9. All alteration work is within an existing facility. The contractor shall take utmost care to minimise damage to existing completed works in the vicinity of the alteration works.</p> <p>10. OLD MATERIALS TO BECOME THE PROPERTY OF THE CONTRACTOR: Old materials from alterations, except where described to be re-used or handed over, become the property of the contractor.</p> <p>11. OLD MATERIALS TO BE CARTED AWAY: Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, etc., must be regularly carted from the site and not be allowed to accumulate on or around the site.</p> <p>12. OLD MATERIALS NOT TO BE RE-USED: None of the old materials are to be used for new work except where specifically described as being set aside for re-use.</p> <p>13. HANDING OVER OF MATERIALS: Where certain materials or articles from demolitions or alterations are described as to be handed over by the Contractor to the Client, such materials or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested to do so, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Client for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.</p>			
<p><b><u>REMOVAL OF EXISTING WORK</u></b></p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 1 Alterations</p>		R	

	<b><u>Carefully break up and remove reinforced concrete including cutting off and removing reinforcement, propping existing work where necessary, maintaining in position and preparing to receive new:</u></b>				
1	Surface beds in isolated areas.	m3	1		
	<b><u>Break down and remove brickwork, etc.:</u></b>				
2	Half brick wall.	m2	32		
3	One brick wall.	m2	32		
	<b><u>Take out and remove doors, windows, etc. including thresholds, sills, etc. (building up openings elsewhere).</u></b>				
4	Single leaf door and steel frame size overall 813 x 2032mm high from half brick wall.	No	6		
5	Single leaf door and steel frame size overall 813 x 2032mm high from one brick wall.	No	7		
6	Double leaf door and steel frame size overall 1588 x 2032mm high from one brick wall.	No	2		
7	Steel window size overall 600mm x 1000mm high from one brick wall.	No	1		
	<b><u>Take out and remove glass, mirrors, etc.:</u></b>				
8	Glass from steel windows including cleaning out rebates and preparing for new glass.	m2	1		
	<b><u>Take down and remove roofs, floors, panelling, ceilings, partitions, etc:</u></b>				
9	Concrete roof tiles fixed to timber trusses including removal of all ridge tiles, hip and valley tiles, etc.	m2	476		
10	Suspended ceilings including suspension grid, hangers, etc.	m2	135		
11	15 x 300mm Fascia board screwed to roof timbers.	m	62		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 1 Alterations				R

12	15 x 300mm Barge board screwed to roof timbers.	m	29		
13	50 x 76mm Timber purlins.	m	324		
<b><u>Take out and remove sundry joinery work:</u></b>					
14	Timber cupboards of various sizes ranging from 900-1500mm long x 600-900mm deep x 900mm high fixed to floor.	No	16		
15	Timber cupboards of various sizes ranging from 900-1500mm long x 300-600mm deep x 600mm high fixed to floor.	No	6		
16	Timber kitchen unit size overall 1200mm long x 600mm deep x 900mm high fixed to floor.	No	1		
17	Multi-tiered steel shelving units of various sizes ranging from 600-1200mm long x 300mm deep x 1800mm high fixed to floor.	No	16		
<b><u>Carefully take out and remove sundry joinery work and set aside for re-use:</u></b>					
18	Mobile shelving system size overall 3000mm long x 1100mm wide x 2300mm high.	No	2		
<b><u>Take up and remove vinyl floor coverings, carpeting, etc:</u></b>					
19	Vinyl floor covering and self levelling screed including preparing screed for new floor finish by means of grinding or shot blasting to a smooth surface.	m2	226		
<b><u>Hack up/off and remove wall and floor tiles including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes:</u></b>					
20	Porcelain wall tiles.	m2	35		
<b><u>Take out / up and remove including carting away to a dumping site located by the contractor:</u></b>					
21	60mm Thick concrete pavers.	m2	60		
<b>Carried to Collection</b>					
Section No. 2 Building Work Bill No. 1 Alterations				R	



	<b><u>Break out for and form opening through brick walls for new doors including necessary precast concrete lintels and making good plaster on both sides and into reveals and with concrete thresholds with steel trowelled finish (new doors and making good paintwork elsewhere):</u></b>				
31	Opening for one and half leaf door with steel frame size overall 1414 x 2032m high through one brick wall.	No	1		
32	Opening for double leaf door with steel frame size overall 1512 x 2032m high through one brick wall.	No	1		
33	Opening for aluminium window size overall 1588 x 950mm high through one brick wall.	No	1		
34	Opening for louvre size overall 425 x 425mm high through one brick wall.	No	4		
35	Opening for louvre size overall 850 x 850mm high through one brick wall.	No	2		
	<b><u>MAKE GOOD FINISHES, ETC.</u></b>				
	<b><u>Make good internal granolithic, screed, plaster, etc. to match existing:</u></b>				
36	Floors where walls removed.	m2	4		
37	Walls where walls removed.	m2	11		
	<b><u>REPAIR WORK AND SERVICING OF EXISTING DOORS AND WINDOWS</u></b>				
	<b><u>Steel Windows:</u></b>				
38	Repair and service existing steel windows, shopfronts and ironmongery of various sizes ranging from 530mm x 650mm to 1511mm x 1559mm including lubricating all components, tightening all loose screws, replacing missing fixtures, realigning opening sections, etc.	No	40		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 1 Alterations				R

	<p><b><u>Timber Doors:</u></b></p> <p>39 Repair and service existing timber doors, steel frames and ironmongery including lubricating all components, tightening all loose screws, replacing missing fixtures, securing door closers, straightening out striking plates, etc.</p> <p><b><u>BUILDER'S WORK IN CONNECTION WITH SPECIALIST INSTALLATIONS, ETC.</u></b></p> <p>40 110mm Diameter hole through one brick walls and make good.</p> <p><b><u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u></b></p> <p>41 200mm Thick surface beds in widths not exceeding 200mm for installation of sewer pipes (pipes elsewhere) including making good.</p> <p><b><u>FINANCIAL PROVISION</u></b></p> <p>42 Allow the amount of R50,000.00 for general alterations.</p>	<p>No</p> <p>No</p> <p>m</p> <p>Item</p>	<p>9</p> <p>15</p> <p>44</p>	<p></p> <p></p> <p></p> <p>50,000 00</p>	<p></p> <p></p> <p></p> <p></p>
	<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 1 Alterations</p>			<p>R</p>	

<p>Section No. 2 Building Work Bill No. 1 Alterations <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b></p>		<p><b>Amount</b></p>	
	<p>171</p>		<p>-----</p>	
	<p>172</p>		<p>-----</p>	
	<p>173</p>		<p>-----</p>	
	<p>174</p>		<p>-----</p>	
	<p>175</p>		<p>-----</p>	
	<p>176</p>		<p>-----</p>	
	<p>177</p>		<p>-----</p>	
<p><b>Carried Forward to Summary of Section No. 2</b></p>			<p>R</p>	
<p>Section No. 2 Building Work Bill No. 1 Alterations</p>				

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>FOUNDATIONS</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of all excavated material including all rock, etc. shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p>			
1	<p><b><u>SITE CLEARANCE, ETC.</u></b></p> <p><b><u>Site clearance:</u></b></p> <p>Allow for digging up and removing all rubbish, debris, vegetation etc., hedges, shrubs and trees not exceeding 200mm girth measured 1m above ground level, including carting away all material to a dumping site to be located by the contractor.</p>	m2	65	
2	<p><b><u>BULK EXCAVATION, FILLING, ETC.</u></b></p> <p><b><u>Excavation in earth:</u></b></p> <p>Open face excavation in earth and soft rock over site to reduce levels and cart away to a dumping site to be located by the contractor.</p>	m3	10	
	<p><b>Carried to Collection</b></p>		R	
	<p>Section No. 2 Building Work Bill No. 2 Foundations</p>			

3	Extra over open face excavations in earth for excavations in intermediate rock including carting away to a dumping site to be located by the Contractor.	m3	1		
4	Extra over open face excavations in earth for excavations in hard rock including carting away to a dumping site to be located by the Contractor.	m3	1		
<b><u>Compaction of in-situ surfaces:</u></b>					
5	Rip and recompact ground surface, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% modified AASHTO density.	m2	65		
<b><u>Base Course:</u></b>					
6	Selected imported G7 (commercial sources) natural gravel in 150mm layers and spread, level, water and compact to 95% modified AASHTO density.	m3	10		
<b><u>EARTHWORKS</u></b>					
<b><u>EXCAVATION, FILLING, ETC. OTHER THAN BULK</u></b>					
<b><u>Excavations in compacted earth not exceeding 2m deep in:</u></b>					
7	Trenches.	m3	47		
8	Trenches to expose existing concrete footing for underpinning including temporary propping (approximately 14m), working in 2m alternating sections, etc.	m3	3		
<b><u>Extra over trench and hole excavations in earth and soft rock for excavations in:</u></b>					
9	Intermediate rock.	m3	5		
10	Hard rock.	m3	24		
<b><u>RISK OF COLLAPSE</u></b>					
<b>Carried to Collection</b>					
Section No. 2 Building Work Bill No. 2 Foundations				R	

11	<p><b><u>Risk of collapse to:</u></b></p> <p>Sides of trench and hole excavations not exceeding 1,5m deep.</p>	m2	135	
<p><b><u>SOIL POISONING</u></b></p>				
<p><b><u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u></b></p>				
12	<p>Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.</p>	m2	65	
13	<p>To bottoms and sides of trenches, etc.</p>	m2	167	
<p><b><u>CARTING AWAY</u></b></p>				
<p><b><u>Extra over all excavations for carting away:</u></b></p>				
14	<p>Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.</p>	m3	21	
<p><b><u>EARTH FILLING, ETC.</u></b></p>				
<p><b><u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site in layers of 150mm thick compacted to 93% Mod AASHTO density:</u></b></p>				
15	<p>Backfilling to trenches, holes, etc.</p>	m3	27	
<p><b><u>KEEPING EXCAVATIONS FREE OF WATER</u></b></p>				
<p><b><u>Keeping excavations free of water:</u></b></p>				
16	<p>Keeping excavations free of all water other than subterranean water.</p>		Item	
<p><b><u>TESTS</u></b></p>				
<p><b><u>Prescribed density tests on filling:</u></b></p>				
17	<p>Modified AASHTO density tests.</p>	No	1	
<p style="text-align: center;"><b>Carried to Collection</b></p>				
<p>Section No. 2 Building Work Bill No. 2 Foundations</p>				<p style="text-align: center;">R</p>

<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<b><u>15 MPa/19mm Concrete in:</u></b>			
18	Surface blinding under footings and bases.	m3	2
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<b><u>25 MPa/19mm Concrete in:</u></b>			
19	Strip footings.	m3	9
20	Columns in foundations.	m3	1
21	Surface beds cast in 3m x 3m panels.	m3	7
22	Ground beams to underpin existing footings.	m3	2
<b><u>TEST BLOCKS</u></b>			
<b><u>Test Blocks</u></b>			
23	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	No	2
<b><u>CONCRETE SUNDRIES</u></b>			
<b><u>Finishing top surfaces of concrete smooth with a power float:</u></b>			
24	Surface beds, slabs, etc.	m2	65
<b><u>25MPa high strength non-shrink grout:</u></b>			
Non-shrink grout shall be 1:2 cement and sand mixture, mixed dry until uniform in colour before adding water.			
25	Bedding approximately 35mm thick under 250 x 250mm base plate including chamfered edges all round.	No	12
<b>Carried to Collection</b>			
Section No. 2 Building Work Bill No. 2 Foundations			R

	<b><u>Anchor down bolts:</u></b>				
26	Provide template for and embed set of four 20mm diameter x 500mm long M16 bolts (bolts elsewhere) into top of stub columns in exact position.	No	12		
	<b><u>ROUGH FORMWORK</u></b>				
	<b><u>Rough formwork to sides</u></b>				
27	Ground beams to underpin existing footings.	m2	10		
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u></b>				
	<b><u>Smooth formwork to sides:</u></b>				
28	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	35		
29	Square or rectangular shaped columns in foundations.	m2	7		
	<b><u>MOVEMENT JOINTS, ETC.</u></b>				
	<b><u>Vertical joggle construction joints through concrete including thick cement slurry to one face:</u></b>				
30	Surface beds not exceeding 100mm thick.	m	10		
	<b><u>Saw cut joints:</u></b>				
31	40 x 3mm Saw cut joints in two operations in top of concrete.	m	67		
	<b><u>REINFORCEMENT</u></b>				
	<b><u>Fabric reinforcement with minimum 300mm wide overlaps:</u></b>				
32	Type 193 reinforcement in concrete surface beds, slabs, etc.	m2	65		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 2 Foundations				R



	<p><b><u>Grey polysulphide sealant, including backing cord, bond breaker, primer, etc.</u></b></p> <p>39 Clean out 3mm thick saw cut joint, apply approved primer, insert backing cord and fill with type 2 gungrade polysulphide base joint sealing compound. m 67</p> <p>40 Rake out 10mm thick expansion joint filler to a depth of 10mm, apply approved primer, insert packing strip and fill with type 2 gungrade polysulphide base joint sealing compound. m 10</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 2 Foundations</p>				
				R	

<p>Section No. 2 Building Work Bill No. 2 Foundations <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 179 180 181 182 183 184 185</p>		<p><b>Amount</b></p>	
<p><b>Carried Forward to Summary of Section No. 2</b> Section No. 2 Building Work Bill No. 2 Foundations</p>		<p>R</p>		

Item No		Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>				
<b><u>BILL NO. 3</u></b>				
<b><u>CONCRETE, FORMWORK &amp; REINFORCEMENT</u></b>				
<b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b>				
<b><u>REINFORCED CONCRETE</u></b>				
<b><u>25Mpa/19mm Concrete in:</u></b>				
1	Isolated beams.	m3	1	
2	Plinths.	m3	3	
3	Surface beds in widths not exceeding 200mm.	m3	2	
<b><u>TEST BLOCKS</u></b>				
<b><u>Test blocks:</u></b>				
4	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	Sets	1.0	
<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u></b>				
<b><u>Smooth formwork to sides of:</u></b>				
5	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	20	
<b>Carried to Collection</b>				R
Section No. 2 Building Work Bill No. 3 Concrete, Formwork and Reinforcement				

6	<p><b><u>Smooth formwork to sides and soffits :</u></b></p> <p>Isolated beams including horsing-up exceeding 1,5m and not exceeding 3,5m above bearing level.</p> <p style="text-align: right;">m2</p>	10		
7	<p><b><u>MOVEMENT JOINTS, ETC.</u></b></p> <p><b><u>Expansion joints with Bitumen impregnated softboard between vertical concrete and brick surfaces:</u></b></p> <p>10mm Thick joint not exceeding 300mm high.</p> <p style="text-align: right;">m</p>	90		
8	<p><b><u>REINFORCEMENT</u></b></p> <p><b><u>Mild steel reinforcement to structural concrete work:</u></b></p> <p>Various size bars.</p> <p style="text-align: right;">t</p>	0.02		
9	<p><b><u>High tensile steel reinforcement to structural concrete work:</u></b></p> <p>Various size bars.</p> <p style="text-align: right;">t</p>	0.07		
10	<p><b><u>Fabric reinforcement with minimum 300mm wide overlaps:</u></b></p> <p>Type 193 reinforcement in concrete surface beds, slabs, etc.</p> <p style="text-align: right;">m2</p>	13		
<b>Carried to Collection</b>			R	
<p>Section No. 2 Building Work Bill No. 3 Concrete, Formwork and Reinforcement</p>				

<p>Section No. 2 Building Work Bill No. 3 Concrete, Formwork and Reinforcement <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 187</p>		<p><b>Amount</b></p>	
	<p>188</p>		<p>-----</p>	
			<p>-----</p>	
<p><b>Carried Forward to Summary of Section No. 2</b> Section No. 2 Building Work Bill No. 3 Concrete, Formwork and Reinforcement</p>		<p>R</p>		

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>MASONRY</u></b>			
	<b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b>			
	<b><u>SUPERSTRUCTURE</u></b>			
	<b><u>Brickwork in SABS approved NFP bricks in cement mortar:</u></b>			
1	Half brick walls.	m2	4	
2	One brick walls.	m2	36	
3	One brick walls in beamfilling.	m2	14	
	<b><u>BRICKWORK SUNDRIES</u></b>			
	<b><u>Joint forming material in movement joints:</u></b>			
4	10mm Bitumen impregnated fibre board built in vertically in brick walls not exceeding 300mm wide.	m	7	
	<b><u>Brickwork reinforcement:</u></b>			
5	75mm Wide reinforcement built in horizontally.	m	16	
6	150mm Wide reinforcement built in horizontally.	m	140	
	<b><u>Prestressed fabricated lintels:</u></b>			
7	100 x 70mm Lintels in lengths not exceeding 3m.	m	21	
	<b>Carried to Collection</b>			R
	Section No. 2 Building Work Bill No. 4 Masonry			

	<b><u>Turning pieces:</u></b>				
8	Turning piece to lintels etc., not exceeding 300mm wide.	m	10		
	<b><u>Galvanised hoop iron cramps, ties, etc:</u></b>				
9	32 x 1,6mm Roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork.	No	55		
	<b><u>FACE BRICKWORK</u></b>				
	<b><u>222 x 106 x 73mm Thick corobrik imperial FBX, or equal approved, clay external face bricks in stretcher bond bedded in and jointed with Class II mortar pointed with raked smoothed and square recessed horizontal and vertical joints (colour and type to Architect's approval):</u></b>				
10	Extra over ordinary brickwork for face brickwork.	m2	36		
	<b><u>FACE BRICKWORK COPINGS, SILLS, ETC.</u></b>				
	<b><u>Brick-on-end soldier course copings, sills, etc. of corobrik imperial FBX, or equal approved, clay external face bricks pointed with raked smoothed and square recessed joints on all exposed faces: (colour and type to Architect's approval):</u></b>				
11	230mm Wide brick-on-edge sill set sloping and pointed on all exposed faces.	m	6		
12	230mm Wide brick-on-end lintel pointed on all exposed faces.	m	10		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 4 Masonry				R

<p>Section No. 2 Building Work Bill No. 4 Masonry <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 190</p>		<p><b>Amount</b></p>	
	<p>191</p>		<p>-----</p>	
			<p>-----</p>	
<p><b>Carried Forward to Summary of Section No. 2</b> Section No. 2 Building Work Bill No. 4 Masonry</p>		<p>R</p>		

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 5</u></b></p> <p><b><u>WATERPROOFING</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>			
	<p><b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b></p> <p><b><u>One layer of 250 micron consol plastics brikgrip DPC, or equal approved, embossed damp proof course:</u></b></p>			
1	In walls.	m2	2	
	<p><b><u>JOINT SEALANTS, ETC.</u></b></p>			
2	Point 6mm wide joint between ceramic sanitaryware and wall with type 2 one component, silicone rubber base joint sealing compound.	m	15	
3	Rake out 10mm thick expansion joint filler to a depth of 10mm, apply approved primer, insert packing strip and fill with type 2 gungrade polysulphide base joint sealing compound.	m	90	
	<p><b>Carried Forward to Summary of Section No. 2</b></p>			R
	<p>Section No. 2 Building Work Bill No. 5 Waterproofing</p>			

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 6</u></b></p> <p><b><u>ROOF COVERINGS</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>			
	<p><b><u>PROFILED SHEETING OF METAL, FIBRE-CEMENT, ETC.</u></b></p> <p><b><u>0,58mm Thick klip-tite, or equal approved, profiled sheet metal sheeting with chromadek ultim finish to one side and standard backing coat on the other side, sheets 700mm wide with one male and female rib at ends 41mm high and two centre ribs 41mm high, in single lengths fixed to timber purlins by means of concealed fixings and fully interlocking fixing clips, including heavy duty industrial gauge accessories, fixed in strict accordance with the manufacturer's instructions:</u></b></p> <p>1 Sheeting laid to roof with pitch not exceeding 50 degrees in single lengths (measured nett). m2 541</p> <p><b><u>0,80mm Thick Flashings, etc.:</u></b></p> <p>2 550mm Girth ridge capping. m 48</p> <p>3 550mm Barge flashing, 3 times bent. m 43</p> <p>4 500mm Wide rectangular valley gutter, seven times bent. m 18</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 6 Roof Coverings</p>		R	

5	375mm Girth head wall flashing including 185mm girth counter flashing with serrated broad flute closer and polycloser.	m	3		
6	185mm Girth counter flashing.	m	2		
	<b><u>12mm thick nutec everite, or equal approved, straight edged tongue and grove fibre cement board with H-profile PVC joining strips, fixed to timber members (elsewhere measured) by means of concealed fixings all fixed in strict accordance with the manufacturers instructions:</u></b>				
7	Sheeting fixed horizontally in single lengths (measured nett).	m2	23		
	<b><u>ROOF INSULATION</u></b>				
	<b><u>Sisalation FR430, or equal approved, double sided reflective foil laminate (fire retardant grade) insulation laid taut over steel purlins, on and including 1.6mm double galvanised steel straining wires at 275mm centres with all longitudinal flap joints securely stapled, in strict accordance with the manufacturers instructions:</u></b>				
8	Insulation laid taut over purlins (at approximately 900mm centres) and fixed concurrent with roof covering including galvanised steel straining wires.	m2	541		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 6 Roof Coverings				R

<p>Section No. 2 Building Work Bill No. 6 Roof Coverings <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 194</p>		<p><b>Amount</b></p>	
	<p>195</p>		<p>-----</p>	
			<p>-----</p>	
<p><b>Carried Forward to Summary of Section No. 2</b> Section No. 2 Building Work Bill No. 6 Roof Coverings</p>		<p>R</p>		

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 7</u></b></p> <p><b><u>CARPENTRY</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>			
	<p><b><u>PREFABRICATED TIMBER ROOF TRUSSES</u></b></p> <p><b><u>TIMBER</u></b></p> <p>Timber for trusses shall be of South African softwood and be at least of grade 4 and in accordance with SABS Specification No. 563 or 1460.</p> <p><b><u>BOLTS</u></b></p> <p>Bolts shall be to BS 4190 or SABS 135.</p> <p><b><u>SHEAR PLATES, TOOTH CONNECTORS AND SPLIT RINGS</u></b></p> <p>These shall be as specified in BBS 1759 : 1960 and installed in accordance with the CSIR Publication HOUT 468, 'the Design, Manufacture and Erection of Timber Trusses'.</p> <p><b><u>NAILS</u></b></p> <p>These shall be in accordance with SABS 820 : 1974.</p> <p><b><u>METAL CONNECTOR PLATES</u></b></p> <p>Metal truss connector plates shall be fabricated out of galvanised steel of at least 1mm nominal thickness.</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 7 Carpentry</p>		R	

<p>The steel used shall have a minimum yield strength of 250MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resistant coating shall be 0.275kg/m<sup>2</sup> commercial class hot dipped galvanising.</p>	<p>The connector shall have been tested by the CSIR and be of a size capable of transmitting between the members of truss without exceeding the design values given in the CSIR report.</p>	<p><b><u>FABRICATION</u></b></p>	<p>Prefabricated trusses shall be fabricated in a factory by a truss fabricator who has been awarded a Certificate of Competence by the Institute of Timber Construction and is approved by the Architect.</p>	<p>The trusses shall be constructed to ensure the correct profile, overhangs and cambers.</p>	<p>Where metal connector plates are used all joints shall be close fitting butt joints made by precision pressing of the metal connector plates into each side of the joint.</p>	<p><b><u>TRUSS DESIGN</u></b></p>	<p>All trusses shall be designed by a registered Professional Engineer in accordance with the SABS Code of Practice for the Design of Timber Structures, SABS 0163 and the code of Practice for Procedures and Loadings SABS 0160.</p>	<p><b><u>TRUSS SPACING AND PITCH</u></b></p>	<p>The truss centres shall be less than or equal to that shown on the drawing.</p>	<p>The truss pitch shall be as shown on the drawings issued herewith.</p>	<p><b><u>DRAWINGS</u></b></p>	<p>Polyester prints, of size A1, shall be provided to the Engineer for approval prior to fabrication.</p>	<p>These drawings shall be signed by a Professional Engineer.</p>	<p><b>Carried to Collection</b></p>	<p>R</p>	<p>Section No. 2 Building Work Bill No. 7 Carpentry</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------------------------------------------	-------------------------------	-----------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------	-------------------------------------	----------	---------------------------------------------------------------------

<p>The following minimum information shall be supplied:</p> <p>Details of the roof system with the positions of all trusses, girders and beams clearly indicated.</p> <p>Bracing details.</p> <p>All member sizes and grades.</p> <p>Connector plate sizes for all truss joints. Code numbers are deemed to be insufficient.</p> <p>All connection and hold down details between trusses, girders, beams and supports.</p> <p>The type of roof covering, ceiling and any other loads taken into account in the design.</p> <p><b><u>GENERAL</u></b></p> <p>The schedule of prices shall include all timber of the required grade and type shown on the designs, all cutting and waste, cutting to exact lengths and end angles necessary to manufacture the respective truss types, the supply of all connector plates, fabrication of the trusses checking the completed trusses for quality and loading up and transporting to the site of the works, off loading, storing and erecting on site.</p> <p><b><u>ERECTION</u></b></p> <p>The trusses shall be hoisted and erected strictly in accordance with the procedures and recommendations of the manual 'The Erection and Bracing of Timber Roof Trusses' published by the Institute for Timber Construction, the Council for Scientific and Industrial Research and as detailed by the designer.</p> <p>The complete structure shall be inspected by the truss designer to ensure that the manufacture of the trusses and erection details have been complied with.</p> <p><b><u>TRUSS LOADING</u></b></p>	<p style="text-align: center;"><b>Carried to Collection</b></p>	<p style="text-align: center;">R</p>		
<p>Section No. 2 Building Work Bill No. 7 Carpentry</p>				



	<b><u>Tempered fibre cement:</u></b>				
7	15 x 300mm Fascia board countersunk screwed to roof timbers (elsewhere) with one brass screw at maximum 750mm centres and butt jointed with and including standard fascia jointing plates at all joints.	m	70		
8	15 x 300mm Barge board countersunk screwed to roof timbers (elsewhere) with one brass screw at maximum 750mm centres and butt jointed with and including standard fascia jointing plates at all joints.	m	43		
	<b><u>DOORS, ETC.</u></b>				
	<b><u>Solid hardboard laminated flush doors:</u></b>				
	<b><u>40mm Thick swartland, or equal approved solid heavy duty door to SABS 545 with hardwood concealed edge strips and finished on both sides with hardwood laminate hung on steel frames:</u></b>				
9	Door size overall 813 x 2032mm high.	No	10		
10	One and a half leaf door size overall 1350 x 2032mm high.	No	1		
	<b><u>Extra over solid hardboard laminated flush doors for:</u></b>				
11	Viewing panel size 250 x 631mm high with purpose made sheerline MVW 01/02, or equal approved aluminium sub-frame and glazed with and including 6,38mm thick clear intruderproof laminated safety glass with a polyvinyl butryl (PVB) plastic interlayer bonded between glass, standard glazing beads, PVC gaskets and sealants in solid laminated flush door (door elsewhere).	No	1		
	<b><u>Solid Weatherboard flush doors:</u></b>				
	<b><u>44mm Thick swartland, or equal approved door with hardwood concealed edge strips and finished on both sides with tongue and groove hardwood back to back boarding hung on steel frames:</u></b>				
12	Double door size overall 1588 x 2032mm high.	No	1		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 7 Carpentry				R

<b><u>BUMPER RAILS</u></b>					
13	50 x 200mm High laminated SA pine bumper rails with all exposed edges to have 20mm diameter routed edge and top and bottom, wall edges to have a 8mm x 8mm recessed edge for full length fixed to wall with and including 5 x 100mm patented hilti nails, or equal approved at 500mm centres all installed in strict accordance to the Architect's drawings with screws countersunk into rail to a depth of approximately 10mm to provide adequate depth for plugging with approved hardwood plug to match rails finish (As per Architect's drawing HDG-040-DT01; HDG-040-DT02; HDG-040-DT03; HDG-040-DT04; HDG-040-DT05 and HDG-040-DT06).	m	46		
14	Extra over for stop ends.	No	40		
15	Extra over for corners.	No	11		
<b><u>FINANCIAL PROVISION</u></b>					
16	Allow the amount of R100,000.00 (One Hundred Thousand) for repair work to existing timber trusses.	Item			100,000.00
<b>Carried to Collection</b>					
Section No. 2 Building Work Bill No. 7 Carpentry				R	

<p>Section No. 2 Building Work Bill No. 7 Carpentry <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b></p>		<p><b>Amount</b></p>	
	<p>197</p>		<p>-----</p>	
	<p>198</p>		<p>-----</p>	
	<p>199</p>		<p>-----</p>	
	<p>200</p>		<p>-----</p>	
	<p>201</p>		<p>-----</p>	
	<p>202</p>		<p>-----</p>	
<p><b>Carried Forward to Summary of Section No. 2</b> Section No. 2 Building Work Bill No. 7 Carpentry</p>		<p>R</p>		

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO 8</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>			
	<p><b><u>JOINERY</u></b></p> <p><b><u>Preambles:</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition).</p> <p><b><u>Design and installation:</u></b></p> <p>The Sub-Contractor shall be required to design the entire installation, provide all labour, materials, plant, equipment and services required to complete the installation as specified herein.</p> <p>The Sub-Contractor shall allow for and produce fully detailed workshop drawings (<b>3 copies</b>) within 14 calendar days of the Main Contractor's request.</p> <p>All workshop drawings are to be approved by the Architect and Engineer prior to executing the work.</p> <p><b><u>Fire resistance:</u></b></p> <p>The installation shall conform to the local authorities fire resistance standards.</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 8 Joinery</p>		R	

	<p><b><u>Ironmongery:</u></b></p> <p>The Sub-Contractor shall be required to submit ironmongery samples for approval prior to installation.</p> <p>Sub-Contractors are to note that the approval of shop drawings does not automatically indicate acceptance of ironmongery proposals.</p>				
	<p><b>Carried to Collection</b></p>		<p>R</p>		
	<p>Section No. 2          Building Work          Bill No. 8          Joinery</p>				

	<p><b>Prices:</b></p> <p>The Tenderer is reminded that he is expected to provide for every reasonably foreseeable cost in properly executing the Works specified herein, and on the drawings submitted with this document.</p> <p>All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste patterns, models and templates, plant, temporary works, returning of packings, duties, taxes, imposts, establishment charges, overheads, profit and all other obligations arising out of the Contract. Prices for all plant, temporary works, services and other items provided shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary.</p> <p>Should any contradiction or ambiguity exist between this Document and the abovementioned drawings, or between the individual abovementioned drawings, the Tenderer shall clarify such matter with the Principal Agent before submitting his tender; failing which he shall be deemed to have tendered for the Works described herein.</p> <p><b>The Tenderer is however advised, that he will be deemed to have priced herein for a fully functional design and structure in terms of the Drawings, the Model and Supplementary Preambles, and the Project Specifications. Should he consider that any <u>functionally essential</u> component of the works is not provided for herein, he shall clarify same with the Principal Agent before the closing of Tenders; failing which he will be deemed to have provided for such component in his tender. Should such an omission be reported, an Addendum will be issued to Tenderers.</b></p> <p>The Tenderers' attention is specifically drawn to the fact that pricing of scope changes and variations in sizes shall be calculated on a pro-rata basis of similar size and design.</p>			
	<p><b>Carried to Collection</b></p>		<p>R</p>	
<p>Section No. 2 Building Work Bill No. 8 Joinery</p>				

<p><b><u>Inspection of the site and existing buildings:</u></b></p> <p>The Tenderer shall inspect and examine the site and its surroundings and shall satisfy himself before submitting his tender as to the form and nature of the site, the quantities and nature of the work and materials necessary for the completion of the Works and the means of access to the Site, the accommodation he may require and in general shall himself obtain all necessary information as to risk, contingencies and other circumstances which may influence or affect his tender. The Tenderer should approach the Main Contractor for permission to make such inspections as he considers necessary to ensure that he is fully acquainted with the conditions, particularly allocation of areas for the Sub-contractors offices and site establishment (if required) and storage for unfixed materials as there is limited space available on site. The Tenderer will be deemed to have properly inspected the Site and to have included in his Tender for all necessary costs associated with the Works described herein (in as much as these could be evaluated from such inspection). The Employer will accept no liability whatsoever for additional payment in respect of costs which are deemed by the Principal Agent to have been capable of being anticipated.</p> <p><b><u>Factory quality control:</u></b></p> <p>The Sub-Contractor shall afford the Main Contractor full access to plant, shop and assembly point to view and inspect the process and method employed in fabricating and assembly.</p> <p><b><u>Protection and cleaning:</u></b></p> <p>All items are to be protected against damage by all means necessary and against deterioration or discolouration caused by mortar, wax, paint, etc., all to the entire satisfaction of the Principal Agent.</p> <p>On completion, and upon written instruction from the Principal Agent, all such protection shall be removed and work cleaned down and left in proper working order.</p>	<p style="text-align: center;"><b>Carried to Collection</b></p>	<p style="text-align: center;">R</p>		
<p>Section No. 2 Building Work Bill No. 8 Joinery</p>				

	<p><b><u>Samples:</u></b></p> <p>Samples of all details, shall be provided by the Tenderer to the approval of the Architect and Engineer. Tenderers are to include for the cost of these samples in the tendered rates.</p> <p><b><u>Scaffolding:</u></b></p> <p>No scaffolding, special scaffolding, cherry pickers or hoists are measured as these Bills of Quantities are based on the sixth edition of the Standard System for Measuring Building Work.</p> <p>The Tenderer is advised to study the drawings carefully as special scaffolding, cherry pickers or hoists may be required in certain areas. The Tenderer must establish this for himself and his rates must include for any special scaffolding, cherry pickers, hoists, etc. required including taking down and re-erecting as may be necessary as no claims whatsoever shall be entertained.</p> <p><b><u>Design indemnity &amp; warranty:</u></b></p> <p>The Sub-contractor will be required to indemnify the Main Contractor, Employer, the Architect and the Engineer in respect of aspects of the design for which he will be responsible; and provide a Warranty regarding the selection of materials or goods, and compliance with performance specifications required to be executed in terms of this Contract. Pro-forma "Design Indemnity" documents are attached for the Tenderer's reference.</p> <p><b><u>Counters, cupboards and worktops:</u></b></p> <p>All counters and cupboards 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, etc. <b>(Tops have been measured separately unless otherwise described).</b></p> <p>All work tops shall be sealed against walls, around basins, sinks, etc with an approved type non-fungal sustaining clear silicone sealant.</p>			
	<b>Carried to Collection</b>		R	
<p>Section No. 2 Building Work Bill No. 8 Joinery</p>				

	<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b>GENERAL CARCASS MATERIAL SPECIFICATION</b> Unless otherwise specified, carcass construction of furniture components to be bisonbord Particleboard or Supawood Medium Density Fibreboard (MDF) melamine. Surfaced to both faces bisonlam MFB (Melamine Faced Board) minimum 1mm thickness PVC edging.</p> <p><b>GENERAL DOOR MATERIAL SPECIFICATION</b> Unless otherwise specified, door and drawer frontals to be from bisonbord Particleboard Supawood Medium Density Fibreboard (MDF). Surface in deacon CPL (Continuous Pressed Laminate) to described thickness to outer faces and decon CPL (Continuous Pressed Laminate) white liner to inner faces.</p> <p><b>GENERAL WORKTOP MATERIAL SPECIFICATION</b> Unless otherwise specified, all worktops fitted to walls or fitted to cupboards and cabinets to be from bisonbord V 313 (High Moisture Resistant) Particleboard resistant particleboard with profiled edges. Surface in formica HPL (High Pressure Laminate) to upper faces and with formica HPL (High Pressure Laminate) brown backer balancer to reversed faces. All worktops butting up against walls to be edged in formica HPL (High Pressure Laminate) and exposed edges finished in minimum 3mm PVC edging to required widths. All worktops against tiles to receive coved tile trims (genesis Flexi-bead PVC coat SFB 061/01) butting up against worktop and tile surfaces. Worktops fitted independently to walls generally fixed by means of mild steel wall cleats and support brackets with powder coated finished wall cleat and support brackets.</p> <p><b>GENERAL COUNTER TOP MATERIAL SPECIFICATION</b> Unless otherwise specified, counter tops forming part of workstations and counters, to be from surinno Solid Surfacing Material, incorporating down stands, profiled edges and up stands to design, exhibiting seamless jointing. Apply onto supawood MDF (Medium Density Fibreboard) support structures.</p> <p><b>GENERAL VANITY TOP MATERIAL SPECIFICATION</b> Unless otherwise specified, vanity tops to be from surinno Solid Surfacing Material. Incorporate down stands, profiled edges, fitted up stands and cut-outs for moulded surinno bowls and basins to design, exhibiting seamless jointing. Apply onto supawood MDF (Medium Density Fibreboard) support structures. Vanity tops fitted independently to walls generally fixed by means of mild</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 8 Joinery</p>			
--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--

<p>steel wall cleats and support brackets with powder coat finish. Support brackets to be fitted at centers not exceeding 500mm.</p> <p><b>WALL CUPBOARDS - FIXING TO WALLS</b> Cupboards suspended from walls to be back mounted by means of cupboard suspension fittings fitted to cupboard side panels. Cupboards resting on floors to be screw and plugged, mounted to rear walls through cupboard top and bottom rear bearers fitted behind melamatched - 3mm supawood colour matched to melawood in-fill panels.</p> <p><b>SKIRTING FINISHING TO FLOORS</b> Cupboards with skirting finished to front and side of components to be installed to prevent water seepage. Cupboard base structure front panel from bisonbord V 313 (High Moisture Resistant) Particleboard to be imbedded in a bed of silicone solution. Mounting of 3mm thick formica HPL (High Pressure Laminate) HG/S Horizontal General Purpose / Standard skirt panel to be silicone fitted to base structure behind.</p> <p><b>BOARD SURFACING</b> Bisonbord particleboard or Supawood Medium Density Fibreboard (MDF) (as described) is to be factory surfaced in surface finishes as described in board manufacturer's specifications.</p> <p><b>APPLIED EDGING</b> All 1mm and 3mm rigid PVC edging (as described) are to be factory applied by means of automated edge banding machinery.</p> <p><b>MILD STEEL SUPPORT BRACKETS</b> <b>Support brackets type Sup001, Sup009, Sup010, Sup011, Sup012 and Sup013:</b> To design and shape (as shown) from minimum 32mm x 32mm x 3.2mm wall thickness mild steel tubing. Weld to joints, pre-drilled and countersunk holed for wall fixings, worktop and counter front fixings, powder coated (colour: white). Brackets (where shown) to allow for nylon type pre-fitted adjustable feet. note: All openings in brackets to be plugged with nylon plugs.</p> <p><b>FURNITURE COLOUR SPECIFICATIONS</b> (See pg bison Product Standards List) Unless otherwise specified, colour and finish specification to be as follows: formica : HPL-HG/S Type, formica HPL - CL Type, HPL-HG/P Type, formica HPL - BK Type</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 8 Joinery</p>				
			R	

	<p>decon : CPL-VG/P Type, decon CPL - CL Type, decon CPL - BK Type colour : White</p> <p>Colour and finish specification to formica HPL (High Pressure Laminate (HPL-HG/S type and HPL-HG/P type) to counters. Counters' front panels to be from formica HPL (High Pressure Laminate). Colour to be advised.</p> <p><b>FLOOR CUPBOARD IN-FILL PANELS (CupF018)</b> In-fill panels to be applied on one or two ends for cupboards in length where wall dimensions are greater than cupboard. In-fill panels to be from bisonbord particleboard 16mm thick or supawood Medium Density Fibreboard (MDF). Surface on outer face in decon CPL (Continuous Pressed Laminate) HG/P Horizontal General Purpose / Postform 0.6mm thick with decon CPL (Continuous Pressed Laminate) (CPL-CL) white cabinet liner to reversed face. Fixing method: Secretly fixed.</p> <p><b>DIMENSIONS</b> All dimensions of joinery work to be checked on site and shop drawings to be presented to Architect for approval prior to any manufacturing of joinery work.</p> <p><b>SAMPLE FURNITURE</b> Architect may call upon sample furniture in order to evaluate quality and construction methods of joinery work.</p> <p><b>FURNITURE HARDWARE</b> (Unless otherwise specified, hardware and ironmongery to be as specified or similar approved)</p> <p><b>FURNITURE HARDWARE AND IRONMONGERY</b> Furniture hardware and ironmongery are described in terms of brand, fabricator type, followed by reference numbers and codes. All factory applied.</p> <p><b>DOOR HINGES</b> To be boss type hinges to open 2700 for side panel mounting, including trim cups. Grass type : Twist Lock - Code 218835 - 4903 / 1650 Backing Plate - Code 310765 - 4,3 / 6,5 Cross Plate Euro Screws - Code 483545 - 6 x 13 - 1 pair</p> <p><b>DRAWER RUNNERS</b> To be full metal sided and rear - full retractable with 16mm supalam, (colour: white) drawer bases. metabox type : Full extension (white)</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 8 Joinery</p>			<p style="text-align: center;">R</p>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--------------------------------------

<p>Reference : Sides 500mm deep x 150mm high (352) 555.79.750 Reference : Rear 150mm high 565.75.745</p> <p><b>SLIDING TRAY RUNNERS</b> To be full extension type, side mounted, soft roller. hafele type : Length 350mm, extension length 375mm Reference : 420.76.362</p> <p><b>DOOR LOCKS (All doors and drawers to be lockable - keyed alike per room with Master Key per Department)</b> To be Cyberlock-Short Bolt Travel left or right (finish: Nickel) std/grass ref : Rim Lock Nickle 22mm (Mastered) 7CL601-22-N mounting screws: 746190 6X19 Screw</p> <p><b>PIGEON HOLE DOOR LOCKS</b> Pigeon hole special locks to be suitable for use of padlocks. hafele type : Level lock, zinc alloy, polished chrome, with left or right hand locking travel. Reference : A-right 235.61.200 Reference : B-left 236.61.201</p> <p><b>DRAWER LOCKS (Linked to Master Key System)</b> Drawers to be locked in series of four in height, with Face Fitting Cyberlock Central Locking System for recessing in the cabinet side panel. std/grass ref : 700 mm Central Locking System/Nickle (4 Drawer) 7CL603-700-N 197480 Zargen Locking Bracket mounting screws : 749160 6X16 Screws</p> <p><b>CARCASS CONNECTORS</b> For factory machined ready to assemble purpose. blum type : Knock-down Reference : 42/070</p> <p><b>SHELF SUPPORTS</b> For factory machined ready to assemble purposes. blum type : Nylon Housing : Reference : 40.4001 Nylon Cover Cap : Reference : 41.5400 Finishing Screw : Reference : 636.1050 Mylon Bush : Reference : 41.1100</p> <p><b>CUPBOARD DOOR CATCHERS</b> buchel type : Elbow catch (Rooster) Reference : B1566</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 8 Joinery</p>			<p style="text-align: center;">R</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--------------------------------------

<p><b>DOOR STOPS</b> hafele type : Press fit white Reference : 356.20.725</p> <p><b>LAUNDRY BASKETS (LINEN CUPBOARD CupF012)</b> hafele type : Suitable for cabinet width of 340mm Reference : 540.02.121 mounting rail : Reference : 540.02.194 flap fittings : Reference : 355.52.708</p> <p><b>WORKTOP CONNECTORS</b> hafele type : Suitable for 32mm built-up formica tops : Minimum three per 450 full joints : Reference : 262.96.211 : Used in conjunction with lamello joint pieces</p> <p><b>BROOMSTICK HOLDERS</b> For four holders per broom cupboard. hafele type : Reference : 520.10.009</p> <p><b>DISTRIBUTION CUPBOARDS - PRESSURE CATCHES</b> type : hafele - automatic spring catch to each door Reference : 245.54.701</p> <p><b>CABINET SUSPENSION FITTINGS</b> hafele type : Reference : Left-290.01.701 Reference : Right - 290.02.700 suspension rail Reference : 290.02.900</p> <p><b>HANDLES (To all doors and drawers)</b> hafele type : Reference : 129.57.701 (white)</p> <p><b>VENTILATION GRILLES (To all CPU cupboard doors - CupF026)</b> X6 ventilation grilles : Finish : Plastic, chrome plated hafele type : Reference : 571.54.220</p> <p><b>NURSES' STATION COUNTERS</b> General Description and Construction: Nurses' Station counters of various design, shapes and dimensions generally comprise of various components, i.e. mild steel supports, outer front panels, inner closure panels, worktop areas, service tops to shape, curved corner units, drawer and door cupboard base units, etc. The overall construction to be to dimensioned prefabricated components disassembled for transport and re-assembled for site installation. Surinno Solid Surfacing Material are described separately (templates are to be provided for specialist fabrication). Counters fitted adjacent to wall fitted distributions board to allow for design of DB boards and cut-outs for electrical</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 8 Joinery</p>				<p style="text-align: center;">R</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	--------------------------------------

<p>connections and services. Counters to be laid on minimum 16mm supawood mdf (Medium Density Fibreboard) board.</p> <p>Service Tops: Surinno Solid Surfacing Material service top portion C1, size 400mm wide x 12mm thick with 200mm high x 12mm thick front down stand with 80mm high down stand to rear. Incorporate seamless joints and minimum 10mm radius corners. Apply onto 16mm thick supawood mdf (Medium Density Fibreboard) board. Mount on mild steel brackets.</p> <p>Top and Rear Panels: Panel on top and to rear face of counter. Construct from 16mm supawood mdf (Medium Density Fibreboard) board. Surface to outer face in formica HPL (High Pressure Laminate) HG/P Horizontal General Purpose / Postform 0.8mm thick (minimum) and formica HPL (High Pressure Laminate) BK 0.8mm brown backer to reverse face. Panels to be face mounted to vertical supports .</p> <p>Worktop Portion (SURINNO): Worktop portion Surinno solid surfacing material worktop, size 12mm thick. Incorporate seamless joints and minimum 10mm radius corners, unless otherwise indicated. Apply onto 16mm thick supawood mdf (Medium Density Fibreboard). Fit to steel supports and base units F1, F3, F16 and F22.</p> <p>Outer Counter Vertical Face: Front panel to counter in length and variable heights as shown on typical counter details, be from 16mm supawood mdf (Medium Density Fibreboard) board. Surface to visible face in formica HPL (High Pressure Laminate) HG/P Horizontal General Purpose / Postform 0.8mm thick with formica HPL (High Pressure Laminate) BK 0.8mm brown backer to reverse face. Panel to be face mounted to vertical supports.</p> <p>Outer Counter Decorative Face: Decorative strip panels to front face on counter and return to dimensions in length and variable heights as shown, from 22mm supawood mdf (Medium Density Fibreboard) board. Surface to outer face in formica HPL (High Pressure Laminate) HG/P Horizontal General Purpose / Postform 0.8mm thick (minimum) and formica HPL (High Pressure Laminate) BK 0.8mm brown backer to reverse face. All to be adhesive bonded to inner back panel detail 4.</p>	<p style="text-align: center;"><b>Carried to Collection</b></p>	<p style="text-align: center;">R</p>		
<p>Section No. 2 Building Work Bill No. 8 Joinery</p>				

	<p>Front and Side Skirtings: Aluminium sheet skirting panel height 200mm to full length of counter front and return, adhesive bonded to inner front panel (detail 4).</p> <p>Decorative Recess: Decorative Recess with size as shown on typical counter details, to be from Formica Metallic Circle Fusion 826 unless otherwise specified, adhesive bonded to inner front panel (detail 4).</p> <p>Outer Counter Decorative Face: Decorative panels to front face on counter and return to dimensions in length and variable heights as shown, from 16mm supawood mdf (Medium Density Fibreboard). Surface to outer face in formica HPL (High Pressure Laminate) HG/P Horizontal General Purpose / Postform 0.8mm thick (minimum) and formica HPL (High Pressure Laminate) BK 0.8mm brown backer to reverse face. All to be adhesive bonded to inner back panel 4.</p> <p>Service Top / Worktop Jointing Panel: Service top end panel between service top and worktop size 400mm wide at top x 860mm wide at bottom x 370mm high of raked shape from 12mm thick Surinno Solid Surfacing Material to both faces of a 22mm thick supawood mdf (Medium Density Fibreboard) substrate. Incorporate coved joints and 180mm bull nose profile to raked length and including 200mm wide down stand return at right angle meeting down stand.</p> <p>Wall Cladding Panels: Wall Cladding panel to be constructed from inner board construction of 16mm supawood (Medium Density Fibreboard) Panel wood finishes as per wall cladding panel detail drawing no. WC01.</p> <p>Worktop Portion (FORMICA) : Worktop portion formica LifeSeal worktop with 32mm Bisonbord HMR substrate, 0.8mm formica HPL - HG/P surface and 0.8mm formica HPL - BK brown backer, size 750mm x 32mm thick incorporating 180 degrees post-formed bull noses on both edges. Edge on either short and one length in formica HPL (High Pressure Laminate) HG/P Horizontal General Purpose / Postform 0.8mm thick. Fit on base cupboard. All exposed worktop edges to be sealed against moisture ingress using a minimum 2 coats water repellent sealant.</p>			
	<p><b>Carried to Collection</b></p>		<p>R</p>	
<p>Section No. 2 Building Work Bill No. 8 Joinery</p>				

	<p><b>PRODUCT STANDARDS</b></p> <p>Formica HPL (High Pressure Laminate) in accordance with SANS ISO 4586:1995</p> <p>Formica SolidCore HPL (High Pressure Laminate) in accordance with SANS ISO 4586:1995</p> <p>Formica SolidCore HPL - Writing Surfaces (White Writing Surface and Green Chalkboard) in accordance with CKS 36:2004 and SANS ISO 4586:1995</p> <p>Decon CPL (Continuous Pressed Laminate) in accordance with SANS 1762:1998</p> <p>Melawood MFB (Melamine Faced Board) in accordance with SANS 1763:1998</p> <p>Bisonlam MFB (Melamine Faced Board) in accordance with SANS 1763:1998</p> <p>Supalam MFB (Melamine Faced Board) in accordance with SANS 1763:1998</p> <p>Bisonbord Particleboard in accordance with SANS EN 312-3:1996</p> <p>Bisonbord V 313 (High Moisture Resistant) Particleboard in accordance with SANS EN 312-5:1997</p> <p>Supawood MDF (Medium Density Fibreboard) in accordance with SANS 540-1:1991</p> <p>Melamatched - 3mm SUPAWOOD colour matched to Melawood</p> <p>Door / drawer postformed 900 profile on two long edges and finished in a minimum 3mm thick</p> <p>PVC edging on two short edges</p> <p>Formica LifeSeal worktop with 32mm Bisonbord HMR substrate, 0.8mm Formica HPL - HG/P surface and 0.8mm Formica HPL - BK brown backer</p> <p>Pg Bison Product Types</p> <p>HG/S Horizontal General Purpose / Standard</p> <p>HG/P Horizontal General Purpose / Postform</p> <p>VG/S Vertical General Purpose / Standard</p> <p>VG/P Vertical General Purpose / Postform</p> <p>CL Cabinet Liner</p> <p>BK Brown Backer</p>			
<p>1</p>	<p><b><u>STEEL MOBILE SHELVING SYSTEM (FROM STOCKPILES ON SITE)</u></b></p> <p>Fix existing mobile shelving system size overall 3000mm long x 1100mm wide x 2300mm high to floor within a 500m radius in the existing hospital including all necessary cutting, welding, painting, etc.</p> <p style="text-align: right;">No</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 8 Joinery</p>	<p>2</p>	<p>R</p>	

	<p><b><u>Tenderers are referred to the attached Architect's drawings for the full intent and scope of a particular unit. Units to be priced as a complete unit including all joinery, ironmongery, paint work, etc.</u></b></p> <p><b><u>COUNTERS, CUPBOARD AND WORKTOPS</u></b></p> <p>NOTE: All work tops shall be sealed against walls, around basins, sinks, etc with an approved type non-fungal sustaining clear silicone sealant.</p> <p><b><u>Cupboards</u></b></p> <p>2 Floor Cupboard F01 (CUPF001A) size 450mm x 560mm x 880mm high, comprising base structure from 16mm bisonbord V 313 (High Moisture Resistant) Particleboard 16mm thick melamine faced particle board bisonlam MFB (melamine Faced Board) to side panels, bottom fixed base, fixed mid-shelf and 75mm wide cross bearers to top and rear of cupboard. Edge all round with minimum 1mm thick PVC edging with melamatched - 3mm supawood colour matched to melawood white rear in-fill panel, groove mounted to panels, 100mm high recessed skirting. Finish to front face with formica HPL (High Pressure Laminate) HG/S horizontal General Purpose / Standard 3mm thick. Hinged door over full width and height from 16mm bisonbord Particleboard finish on outer face with decon CPL (Continuous Pressed Laminate) VG/P Vertical General Purpose / Postform type 0,5mm thick and decon CPL (Continuous Pressed Laminate) CL type 0.35mm thick white cabinet liner to inside. Door / drawer edges finished all round in a minimum 3mm thick PVC edging.</p>	No	2	
	<p><b>Carried to Collection</b></p>		R	
<p>Section No. 2 Building Work Bill No. 8 Joinery</p>				

<p>3</p>	<p>Floor Cupboard F03 (CUPF003) size 450mm x 560mm x 880mm high, four pull-out drawers equal in height, comprising base structure from 16mm bisonbord V 313 (High Moisture Resistant) Particleboard 16mm thick melamine faced particle board bisonlam MFB (melamine Faced Board) to side panels, fixed base, 32mm front bearer and 75mm wide cross bearers to top and rear. Edge all round with minimum 1mm thick PVC edging with melamatched - 3mm supawood colour matched to melawood white rear in-fill panel, groove mounted to side panels. Recessed skirting finish to front face with formica HPL (High Pressure Laminate) HG/S Horizontal General Purpose / Standard 3mm thick. Hinged door over full width and height from 16mm bisonbord Particleboard finish on outer face with decon CPL (Continuous Pressed Laminate) VG/P Vertical General Purpose/ Postform type 0,5mm thick and decon CPL (Continuous Pressed Laminate) CL type 0.35mm thick white cabinet liner to inside. Door/drawer edges finished all round in a minimum 3mm thick PVC edging.</p>	<p>No</p>	<p>3</p>	
<p>4</p>	<p>Floor Cupboard F05 (CuPF005) size 1000mm x 560mm x 880mm high with double doors of equal size, comprising base structure from 16mm Bisonbord V 313 (High Moisture Resistant) Particleboard 16mm thick melamine faced particle board bisonlam MFB (melamine Faced Board) to side panels, bottom fixed base, fixed mid-shelf and 75mm wide cross bearers to top and rear of cupboard. Edge all round with minimum 1mm thick PVC edging with melamatched - 3mm supawood colour matched to melawood 3,0mm white rear in-fill panel, groove mounted to panels, 100mm high recessed skirting. Finish to front face with formica HPL (High Pressure Laminate) HG/S Horizontal General Purpose / Standard 3mm thick. Hinged door over full width and height from 16mm bisonbord Particleboard finish on outer face with decon CPL (Continuous Pressed Laminate) VG/P Vertical General Purpose / Postform type 0,5mm thick and decon CPL (Continuous Pressed Laminate) CL type 0.35mm thick white cabinet liner to inside. Door / drawer edges finished all round in a minimum 3mm thick PVC edging.</p>	<p>No</p>	<p>4</p>	
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 8 Joinery</p>				<p style="text-align: center;">R</p>

<p>5</p>	<p>Pigeon Hole Cupboard F13 (CUPF013) cupboard size 750mm x 350mm x 2040mm high, comprising base structure, bottom base, centre vertical division, sides, top and five fixed shelves in height to left and right hand, constructed from 16mm bisonlam MFB (melamine Faced Board) edged all round in 1mm PVC edging with melamatched - 3mm supawood colour matched to melawood white rear in-fill panel fixed to sides. Ten pigeon hole doors, equal in height and equal in width, from 16mm bisonbord Particleboard surfaced on outer face with deccon CPL (Continuous Pressed Laminate) VG/P Vertical General Purpose / Postform type 0,5mm and inner surface in deccon CPL (Continuous Pressed Laminate) CL 0.35mm white liner. Skirting 100mm high to be finished in 3mm thick formica HPL (High Pressure Laminate) HG/S Horizontal General Purpose / Standard type.</p>	<p>No</p>	<p>2</p>	
<p>6</p>	<p>Floor Cupboard F16 (CUPF016) size 450mm x 560mm x 718mm high, comprising base structure from 16mm bisonbord V 313 (High Moisture Resistant) Particleboard resistant particle board, 16mm thick melamine faced particle board bisonlam MFB (melamine Faced Board) to side panels, bottom fixed base, fixed mid-shelf and 75mm wide cross bearers to top and rear of cupboard. Edge all round with minimum 1mm thick PVC edging with melamatched - 3mm supawood colour matched to melawood white rear in-fill panel, groove mounted to panels, 100mm high recessed skirting. Finish to front face with formica HPL (High Pressure Laminate) HG/S Horizontal General Purpose / Standard 3mm thick. Hinged door over full width and height from 16mm bisonbord Particleboard finish on outer face with deccon CPL (Continuous Pressed Laminate) VG/P Vertical General Purpose / Postform type 0,5mm thick and deccon CPL (Continuous Pressed Laminate) CL type 0.35mm thick white cabinet liner to inside. Door / drawer edges finished all round in a minimum 3mm thick PVC edging.</p>	<p>No</p>	<p>1</p>	
<p><b>Carried to Collection</b></p>				
<p>Section No. 2 Building Work Bill No. 8 Joinery</p>				<p>R</p>

7	<p>Floor Cupboard F22 (CUPF022) size 450mm x 560mm x 718mm high, three pull-out drawers equal in height, comprising base structure from 16mm bisonbord V 313 (High Moisture Resistant) Particleboard 16mm thick melamine faced particle board bisonlam mfb (melamine Faced Board) to side panels, fixed base, 32mm front bearer and 75mm wide cross bearers to top and rear. Edge all round with minimum 1mm thick PVC edging with melamatched - 3mm supawood colour matched to melawood white rear in-fill panel, groove mounted to side panels. Recessed skirting finish to front face with formica HPL (High Pressure Laminate) HG/S Horizontal General Purpose / Standard 3mm thick. Hinged door over full width and height from 16mm bisonbord Particleboard finish on outer face with deccon CPL (Continuous Pressed Laminate) VG/P Vertical General Purpose / Postform type 0,5mm thick and deccon CPL (Continuous Pressed Laminate) CL type 0.35mm thick white cabinet liner to inside. Door / drawer edges finished all round in a minimum 3mm thick PVC edging.</p>	No	3	
8	<p>Bookcase Floor Cupboard F82 (CUPF082) cupboard size 800mm x 315mm x 1505mm high, comprising base structure from 16mm bisonbord V 313 (High Moisture Resistant) Particleboard, one horizontal division, sides, back and two pigeon holes of equal size, constructed from 16mm thick melamine faced particle board bisonlam mfb (Melamine Faced Board) to side panels, fixed base, 32mm front bearer and 75mm wide cross bearers to top and rear. Edge all round with minimum 1mm thick PVC edging with melamatched - 3mm supawood colour matched to melawood white rear in-fill panel, groove mounted to side panels. Recessed 100mm skirting finish to front face with formica HPL (High Pressure Laminate) HG/S Horizontal General Purpose / Standard 3mm thick.</p>	No	1	
<p style="text-align: center;"><b>Carried to Collection</b></p>				R
<p>Section No. 2 Building Work Bill No. 8 Joinery</p>				

9	<p>Wall Cupboard W03 (CUPW003) size 900mm x 300mm x 720mm high with one pair double doors, comprising bottom panel, side panel, fixed mid-shelf and top panel from 16mm bisonlam mfb (melamine Faced Board) edged all round in 1mm PVC edging with melamatched - 3mm supawood colour matched to melawood white rear in-fill panel, groove mounted to panels. Hinged door over full width and height from 16mm bisonbord Particleboard finished on outer face with deccon CPL (Continuous Pressed Laminate) VG/P Vertical General Purpose / Postform type 0,5mm and deccon CPL (Continuous Pressed Laminate) CL white liner type 0.35mm thick white cabinet liner to inside. Door / drawer edges finished all round in a minimum 3mm thick PVC edging.</p>	No	1	
10	<p>Wall Cupboard W04 (CUPW004) size 1000mm x 300mm x 720mm high with one pair double doors, comprising bottom panel, side panel, fixed mid-shelf and top panel from 16mm bisonlam mfb (melamine Faced Board) edged all round in 1mm PVC edging with melamatched - 3mm supawood colour matched to melawood white rear in-fill panel, groove mounted to panels. Hinged door over full width and height from 16mm bisonbord Particleboard finished on outer face with deccon CPL (Continuous Pressed Laminate) VG/P Vertical General Purpose / Postform type 0,5mm and deccon cpl (Continuous Pressed Laminate) CL white liner type 0.35mm thick white cabinet liner to inside. Door / drawer edges finished all round in a minimum 3mm thick PVC edging.</p>	No	2	
11	<p>Wall Cupboard W16 (CUPW016) size 650mm x 350mm x 320mm high with and including 650mm x 450mm x 400mm high microwave open enclosure, comprising bottom panel, side panel, fixed mid-shelf and top panel from 16mm bisonlam mfb (melamine Faced Board) edged all round in 1mm PVC edging with melamatched - 3mm supawood colour matched to melawood white rear in-fill panel, groove mounted to panels. Hinged door over full width and height from 16mm bisonbord Particleboard finished on outer face with deccon CPL (Continuous Pressed Laminate) VG/P Vertical General Purpose / Postform type 0,5mm and deccon cpl (Continuous Pressed Laminate) CL white liner type 0.35mm thick white cabinet liner to inside. Door / drawer edges finished all round in a minimum 3mm thick PVC edging.</p>	No	1	
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 8 Joinery</p>				R

12	<p>Wall Cupboard W17 (CUPW017) size 450mm x 300mm x 720mm high with single door glazed with and including 4mm thick clear glass, comprising bottom panel, side panel, fixed mid-shelf and top panel from 16mm bisonlam mfb (melamine Faced Board) edged all round in 1mm PVC edging with melamatched - 3mm supawood colour matched to melawood white rear in-fill panel, groove mounted to panels. Hinged door over full width and height from 16mm bisonbord Particleboard finished on outer face with decon CPL (Continuous Pressed Laminate) VG/P Vertical General Purpose / Postform type 0,5mm and decon CPL (Continuous Pressed Laminate) CL white liner type 0.35mm thick white cabinet liner to inside. Door / drawer edges finished all round in a minimum 3mm thick PVC edging.</p> <p><b><u>COUNTERS &amp; WORKTOPS</u></b></p> <p><b><u>Floor Cupboard Tops (TOP057-060): Formica LifeSeal worktop with 32mm Bisonbord HMR substrate, 0.8mm formica HPL - HG/P surface and 0.8mm formica HPL - BK brown backer worktops are to be purpose-made to required length x 600mm wide with Squareline front profile. A splashback of 100mm high to required lengths with 0,8mm Formica HPL-HG/P surface and 0,8mm Formica HPL-BK backer, both, having a 90 degrees profiled top profile, and is to be installed and supplied separately. All exposed ends of worktops edged in 3mm PVC edging to full profile and edges butting up against walls. Cut-outs to worktops to accommodate for stainless steel sinks to size (Sinks elsewhere). Cut-out edges to receive minimum two coats water repellent sealant. Placement of sinks to be applied by means of imbedding sink flange areas in an approved sealant. Sink installation by means of mechanical fixing as per sink supplier specifications.</u></b></p>	No	1	
13	1650mm Long x 600mm wide worktop.	No	1	
14	1800mm Long x 600mm wide worktop.	No	1	
15	2000mm Long x 600mm wide worktop.	No	1	
16	2050mm Long x 600mm wide worktop.	No	1	
<b>Carried to Collection</b>				R
<p>Section No. 2 Building Work Bill No. 8 Joinery</p>				

	<p><u>Wall Fitted Worktops - Factory Produced (Top 005):</u>  <u>Worktops fitted to walls 550mm or 400mm deep with 200mm down stand. Construct from 32mm thick supawood mdf (Medium Density Fibreboard).</u>  <u>Surface in formica HPL (High Pressure Laminate) HG/P Horizontal General Purpose / Postform type 0.8mm thick to upper face, incorporating 90o post-formed edges in length to down stand bottom edge and down stand return. Surface in formica HPL (High Pressure Laminate) BK brown backer 0.8mm thick to rear faces. A splash back of 100mm high to required lengths with 0,8mm Formica HPL-HG/P surface and 0,8mm Formica HPL-BK backer, both having a 90 degrees profiled top profile, and is to be supplied and installed separately. Worktops butting up against walls on short and long ends to be edged in formica HPL (High Pressure Laminate) HG/P Horizontal General Purpose / Postform type 0.8mm thick. Worktops with one or two open ends to receive formica HPL (High Pressure Laminate) surfaced infill closed ends to worktop width and to height of down stand. Worktop and down stand edges edged in 3mm thick PVC edging. Worktops in addition to be supported by support brackets type S1 (bracket fixing powder coated to specification). Support brackets fitted not to exceed 800mm centers. All exposed worktop edges to be sealed against moisture ingress using a minimum 2 coats water repellent sealant.</u></p>			
17	1200mm Long x 550mm wide worktop.	No	1	
	<u>Supports</u>			
18	Purpose made epoxy powder coated triangular worktop bracket formed of 32mm x 32mm x 3.2mm square mild steel tubing, 700mm girth, cut & welded at corners, twice countersunk holed for screws & twice times holed for & including 8mm diameter chemical anchor bolts & bolted to wall, including drilling.	No	6	
	<u>RECEPTION COUNTERS</u>			
	NOTE: All work tops shall be sealed against walls, around basins, sinks, etc with an approved type non-fungal sustaining clear silicone sealant.			
	<b>Carried to Collection</b>			R
Section No. 2 Building Work Bill No. 8 Joinery				



	<p><b><u>132mm Thick division panel formed of 16mm bisonboard v313 high moisture resistant particleboard fixed to approved partition system studs comprising recessed head section top track, recessed base section bottom track including z-section supports and vertical studs at approximately 600mm centers including additional studs where necessary at abutments, end, reveals, etc., with and including aluminium edging on corners, fixed to desk:</u></b></p> <p>24 Division panel size overall 848 x 2065mm. No 1</p> <p>25 18 x 18 x 3mm Thick aluminium edging fixed to cladding panels in strict accordance with the manufacturer's instructions. m 24</p> <p>26 Extra over for forming 16mm wide x 10mm deep recess in timber panel. m 12</p> <p>27 Extra over for forming 12mm wide x 10mm deep recess in timber panel. m 8</p> <p><b><u>CONSULTING ROOM DESK UNIT</u></b></p> <p>NOTE: All work tops shall be sealed against walls, around basins, sinks, etc with an approved type non-fungal sustaining clear silicone sealant.</p> <p><u>Materials Specifications:</u>  a) Bases - 18mm supawood mdf.  b) Carcasses, shelves, framework, doors and front panels to draws - 18mm supawood with formica hpl veneer to both sides.  c) Shelving and draws - 18mm supawood with formica hpl veneer to both sides.  d) Top supporting framework - 25 X 25 X 3mm thick mild steel tubing</p> <p><b><u>Consulting Room Desk Unit:</u></b></p> <p>28 1550mm Long x 320mm deep x 1620mm high floor unit comprising of 3No. cupboards with single shelves and 3No. single doors and 1No. pigeon hole unit with 9No. shelves, including base structure, bottoms, adjustable shelves, masonite backs, etc. installed complete (DES009). No 1</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2  Building Work  Bill No. 8  Joinery</p>			
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--

<p>29</p>	<p>L shaped desk with one leg size overall 1464mm long x 600mm wide and other leg size overall 350mm long x 320mm wide, comprising solid top (top elsewhere) fixed on and including mild steel framed supports, 750mm high back and sides, 1No. floor cupboard with single shelf and 1No. single door, 1 No. CPU cupboard and 1No. drawer unit with 3No. draws including base structure, bottoms, adjustable shelves, masonite backs, etc. installed complete (DES009).</p> <p><b><u>Max on top solid surface, or equal approved, 12mm thick solid surface counter top with polished bevelled edges and epoxy glued to top of counters (counters elsewhere) including sealing with an approved waterproof sealer in strict accordance with the manufacturer's instructions:</u></b></p>	<p>No</p>	<p>1</p>	
<p>30</p>	<p>L-shaped counter top with one leg size overall 1498mm long x 600mm wide and other leg size overall 350mm long x 320mm wide including splayed corners.</p>	<p>No</p>	<p>1</p>	
<p>31</p>	<p>Extra over 12mm thick worktop for forming 80mm diameter cut-outs.</p>	<p>No</p>	<p>1</p>	
	<p><b><u>TIMBER CLADDING</u></b></p> <p><b><u>Timber cladding panels formed of 16mm thick supawood MDF boards with a 0.8mm formica HPL surface fixed to steel, plastered and plasterboard surfaces (as per attached Architects drawing HDG-045-105):</u></b></p>			
<p>32</p>	<p>Cladding in narrow widths.</p> <p><b><u>Max on top solid surface, or equal approved, 5mm thick solid surface fixed to timber surfaces (as per attached Architects drawing HDG-045-104):</u></b></p>	<p>m2</p>	<p>2</p>	
<p>33</p>	<p>Cladding in narrow widths.</p>	<p>m2</p>	<p>1</p>	
	<p><b><u>SEATING</u></b></p>			
<p><b>Carried to Collection</b></p>				
<p>Section No. 2 Building Work Bill No. 8 Joinery</p>				



39	<p><b><u>ESE manufacturing, or equal approved, baked epoxy polyurethane powder coated steel shelving including all brackets, chrome stations, adjustable foot pieces, end caps, etc. assembled in strict accordance with manufacturer's instructions:</u></b></p> <p>Shelf size 550mm wide x 246mm deep (SH015).</p>	No	4	
40	<p><b><u>ESE manufacturing, or equal approved, baked epoxy polyurethane powder coated wire baskets (6 baskets per module) including wall supports, assembled in strict accordance with manufacturer's instructions:</u></b></p> <p>6 Tier basket unit with each basket size overall 575mm wide x 350mm deep x 130mm high (SH017).</p>	No	2	
41	<p><b><u>ESE manufacturing, or equal approved, baked epoxy polyurethane powder coated steel record shelving unit (7No. shelves per module) including frame, subdivisions, brackets, etc. assembled in strict accordance with manufacturer's instructions:</u></b></p> <p>Shelf unit size 914mm wide x 305mm deep x 2200mm high (SH019).</p>	No	7	
42	<p><b><u>Linvar storage direct, or equal approved, polypropylene powder coated steel lin bin (30 bins per module) including wall rails, etc. assembled in strict accordance with manufacturer's instructions:</u></b></p> <p>Lin bin unit size overall 1050 x 610mm high including 9No. size 2 bins, 9No. size 3 bins and 12No. size 5 bins (SH046).</p>	No	1	
43	<p><b><u>Krost, or equal approved, double sided shelving unit (4 shelves per module) with standard beam lengths, powder coated in standard grey colour, free standing (not fixed to wall) and decked with steel decking, including all additional support bracing, installed in strict accordance with the manufacturer's instructions:</u></b></p> <p>Unit size overall 914mm long x 794mm deep x 1800mm high (SH072) .</p>	No	6	
<b>Carried to Collection</b>				
<p>Section No. 2 Building Work Bill No. 8 Joinery</p>				R

	<p><b><u>STEEL CABINETS</u></b></p> <p><b><u>Linvar storage direct, or equal approved, baked epoxy polyurethane powder coated steel filing cabinet with 4 draws including locking mechanisms, etc. assembled in strict accordance with manufacturer's instructions:</u></b></p> <p>44 Filing cabinet size 1320mm wide x 470mm deep x 630mm high (CUPF023). No 1</p> <p><b><u>Linvar storage direct, or equal approved, baked epoxy polyurethane powder coated steel cabinet including internal lockable compartment and shelves, locking mechanisms, etc. assembled in strict accordance with manufacturer's instructions:</u></b></p> <p>45 Drug cabinet size 711mm wide x 280mm deep x 760mm high (CUPW006). No 1</p> <p><b><u>STEEL WORK BENCH</u></b></p> <p><b><u>Approved stainless steel type 304 (18/10):</u></b></p> <p>46 Franke, or equal approved, work bench size overall 900mm long x 600mm wide with 150mm high integral splashbacks, underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet. No 1</p> <p><b><u>LOCKERS</u></b></p> <p><b><u>Cubicle solutions, or equal approved, 3 door lockers formed of 12mm thick compact high pressure laminate (CHPL), installed complete including locking mechanisms, etc. in strict accordance with the manufacturer's instructions:</u></b></p> <p>47 Steel locker size 300mm wide x 450mm deep x 1800mm high (product code: cschpl3d) (LOC023B). No 6</p> <p><b><u>Budgetary Allowance</u></b></p> <p>48 Allow the amount of R100,000.00 for design development. Item</p>			
<b>Carried to Collection</b>				R
<p>Section No. 2 Building Work Bill No. 8 Joinery</p>				

<p>Section No. 2 Building Work Bill No. 8 Joinery <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221</p>		<p><b>Amount</b></p>	
<p>Section No. 2 Building Work Bill No. 8 Joinery</p>	<p><b>Carried Forward</b></p>	<p>R</p>		

Section No. 2 Building Work Bill No. 8 Joinery <u>COLLECTION</u>	Page No	R	Amount
<b>Brought Forward</b>			
Total Brought Forward from Page No.	222 223 224 225 226 227 228 229		
<b>Carried Forward to Summary of Section No. 2</b>		R	
Section No. 2 Building Work Bill No. 8 Joinery			

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 9</u></b></p> <p><b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>			
	<p><b><u>CEILINGS</u></b></p> <p><b><u>9mm Pelican systems jumbo, or equal approved, plasterboard ceiling fixed to and including steel brander installed at maximum 400mm centres to existing timber trusses, with fibre tape strips of mesh scrim nailed over joints and the whole ceiling finished with and including jointing skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer:</u></b></p>			
1	Ceiling suspended not exceeding 1m below timber trusses.	m2	12	
2	Extra over plasterboard ceiling for 610 x 610mm trap door including 50 x 76mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening.	No	1	
3	Horizontal bulkhead riser suspended not exceeding 1m below timber trusses and fixed approximately 3,3m above bearing level including all necessary corner protectors, beads, etc.	m2	3	
	<b>Carried to Collection</b>		R	
	Section No. 2 Building Work Bill No. 9 Ceilings, Partitions and Access Flooring			

	<b><u>12mm Pelican systems jumbo MR, or equal approved, plasterboard ceiling fixed to and including 35mm GMS main and cross tees at 400mm centres to existing timber trusses, with fibre tape strips of mesh scrim nailed over joints and the whole ceiling finished with and including jointing skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer:</u></b>				
4	Ceiling suspended not exceeding 1m below timber trusses.	m2	45		
5	Extra over plasterboard ceiling for 610 x 610mm trap door including 50 x 76mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening.	No	1		
6	Horizontal bulkhead riser suspended not exceeding 1m below timber trusses and fixed approximately 3,3m above bearing level including all necessary corner protectors, beads, etc.	m2	7		
	<b><u>Extra over plasterboard ceilings for forming openings for recessed light fittings, air grilles, diffusers, valves, etc. (elsewhere) and providing additional support:</u></b>				
7	100mm Diameter opening.	No	30		
8	350mm Diameter opening.	No	10		
9	595 x 595mm opening.	No	1		
10	600 x 1200mm opening.	No	10		
11	600 x 600mm opening.	No	5		
12	Sprinkler head openings.	No	20		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 9 Ceilings, Partitions and Access Flooring				R

	<b><u>1200 x 600 x 12mm Pelican econotile, or equal approved, white vinyl clad ceiling tiles with aluminium foil backing, suspended in pelican econogrid, or equal approved, pre-painted white exposed tee grid system including fire safety punch outs, main and cross tees, GMS straps, wire hangers, holding down clips, necessary hangers, grids, additional hangers, etc. to accommodate air-conditioning ducts and other electrical, mechanical, and plumbing services in the ceiling void, grids, etc, all in accordance with the manufacturer's instructions:</u></b>				
13	Ceiling suspended not exceeding 1m below timber trusses.	m2	237		
	<b><u>Extra over suspended ceilings for forming openings for recessed light fittings, air grilles, diffusers, valves, etc. (elsewhere) and providing additional support:</u></b>				
14	100mm Diameter opening.	No	50		
15	150mm Diameter opening.	No	11		
16	350mm Diameter opening.	No	15		
17	595 x 595mm opening.	No	31		
18	600 x 1200mm opening.	No	20		
19	600 x 600mm opening.	No	15		
20	Sprinkler head openings.	No	40		
	<b><u>CORNICES, ETC.</u></b>				
21	45 x 45mm Pelican PS4, or equal approved, pre-painted aluminium wall trim cornice secured to plastered wall and ceiling boarding including mitres, etc.	m	14		
22	25 x 22 x 22 x 13mm Pelican econogrid CGDZ1S36, or equal approved, pre-painted shadowline trim sealed with and including a silicone sealant and secured to plastered wall and ceiling boarding including mitres, etc.	m	171		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 9 Ceilings, Partitions and Access Flooring			R	

23	75mm Pelican jumbo GCD75036, or equal approved, coved cornice secured to plastered wall and ceiling boarding including mitres, etc.	m	184		
<b><u>INSULATION</u></b>					
24	100mm Thick isover, or equal approved, flexible non-combustible lightweight insulation closely fitted and laid on top of ceiling and purlins, between roof trusses.	m2	237		
25	115mm Thick isover aerolite, or equal approved, non-combustible lightweight fibreglass glasswool insulation closely fitted and laid on top of ceiling and purlins, between roof trusses.	m2	57		
<b>Carried to Collection</b>					
Section No. 2 Building Work Bill No. 9 Ceilings, Partitions and Access Flooring				R	

<p>Section No. 2 Building Work Bill No. 9 Ceilings, Partitions and Access Flooring <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 232</p>		<p><b>Amount</b></p>	
	233		-----	
	234		-----	
	235		-----	
<p><b>Carried Forward to Summary of Section No. 2</b> Section No. 2 Building Work Bill No. 9 Ceilings, Partitions and Access Flooring</p>		R		

Item No		Quantity	Rate	Amount	
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 10</u></b></p> <p><b><u>FLOOR COVERINGS, WALL LININGS, ETC.</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>				
	<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 10 Floor Coverings, Wall Linings, etc.</p>		R		

<b><u>VINYL FLOOR COVERINGS, WALL LININGS, ETC.</u></b>					
	<p>All vinyl sheeting is to be correctly butt-jointed and hot air seal welded and glazed with a fully flexible coloured welding rod to provide a continuous hygienic sealed finish and rolled with a 68kg three part metal roller and installed in strict accordance with the manufacturer's instructions.</p> <p>All vinyl sheeting is to be installed onto a plaster bedding (bedding elsewhere), that meets the requirements of a hygrometer reading indicating a moisture content below 75%, in accordance with SANS 10070.</p> <p>Concrete or screed floors, installed by others, with a hygrometer reading indicating a moisture content of more than 75% is to receive a moisture barrier. The Contractor will be compensated for the installation of the moisture barrier in accordance with tendered rates. The Contractor will only be compensated for the moisture barrier if the readings have been observed and approved by the Principal Agent or his appointed representative.</p> <p>Concrete or screed floors, installed by the Contractor, must be dried to a level consistent with the application of vinyl flooring, with a hygrometer reading indicating a moisture content of less than 75%, before any vinyl sheeting may be installed. The Contractor will not be compensated for the installation of the moisture barrier, in this instance.</p> <p>A polish free maintenance procedure is to be adopted for ongoing future maintenance. A detail thereof shall be provided to the Hospital's Management and Maintenance staff.</p> <p><b><u>2mm Thick polyflor classic mystique PUR, or equal approved, homogeneous non-directional fully flexible heavy duty vinyl sheet flooring installed with a qualichem QAR 298A, or equal approved, acrylic adhesive in strict accordance with the manufacturer's instructions:</u></b></p>				
1	On floors.	m2	222		
2	On floors in narrow widths.	m2	22		
<b>Carried to Collection</b>					
Section No. 2 Building Work Bill No. 10 Floor Coverings, Wall Linings, etc.				R	

3	400mm Girth margins and borders formed of 200mm wide horizontal border and 200mm high turn-ups over coves and up against walls.	m	278		
	<b><u>2mm Thick polyflor verona PUR, or equal approved, heavy duty safety vinyl sheet flooring installed with a qualichem QAN 439A, or equal approved, pu primer and a qualichem QAR 298A, or equal approved, acrylic adhesive in strict accordance with the manufacturer's instructions:</u></b>				
4	On floors.	m2	10		
5	On floors in narrow widths.	m2	2		
6	300mm Girth margins and borders formed of 200mm wide horizontal border and 100mm high turn-ups over coves and up against walls.	m	39		
	<b><u>2mm Thick polyflor polysafe standard PUR, or equal approved, heavy duty fully flexible safety vinyl sheet flooring installed with a qualichecm QAN 439A, or equal approved, pu primer and a qualichem QAR 298A, or equal approved, acrylic adhesive in strict accordance with the manufacturer's instructions:</u></b>				
7	On floors.	m2	17		
8	On floors in narrow widths.	m2	3		
9	300mm Girth margins and borders formed of 200mm wide horizontal border and 100mm high turn-ups over coves and up against walls.	m	13		
	<b><u>SKIRTINGS, NOSINGS, ETC.</u></b>				
	<b><u>Vinyl accessories fixed to brick walls with approved acrylic adhesive in strict accordance with manufacturer's instructions:</u></b>				
10	Polycove PC20, or equal approved, coved fillet installed in strict accordance with the manufacturers instructions.	m	330		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 10 Floor Coverings, Wall Linings, etc.				R

11	Polyflor CTC30, or equal approved, capping fixed to and including polyflor CB30, or equal approved, clip top base fixed to plastered wall, in strict accordance with the manufacturers instructions.	m	278		
12	Polycap CS48, or equal approved, capping strip fixed to plastered wall, in strict accordance with the manufacturers instructions.	m	52		
13	Polyflor MC17C, or equal approved, skirting installed in strict accordance with the manufacturers instructions.	m	39		
14	Polyflor EJC65, or equal approved, expansion joint cover installed in strict accordance with the manufacturers instructions.	m	5		
<b>Carried to Collection</b>					
Section No. 2 Building Work Bill No. 10 Floor Coverings, Wall Linings, etc.				R	

<p>Section No. 2 Building Work Bill No. 10 Floor Coverings, Wall Linings, etc. <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 237</p>		<p><b>Amount</b></p>	
	238		-----	
	239		-----	
	240		-----	
<p><b>Carried Forward to Summary of Section No. 2</b> Section No. 2 Building Work Bill No. 10 Floor Coverings, Wall Linings, etc.</p>			<p>R</p>	

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 11</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b>			
	<b><u>HINGES, BOLTS, ETC.</u></b>			
	<b><u>Stainless steel:</u></b>			
1	Assa abloy JH-BB-SS-STD-2BB, or equal approved 100mm stainless steel butt hinge.	No	33	
2	Union 2900SS, or equal approved rebate set.	No	1	
3	Union ARC1182SS, or equal approved roller catch.	No	1	
	<b><u>Satin Chrome</u></b>			
4	Union 8052-200SC, or equal approved 200mm flush bolt.	No	1	
5	Union 2915SC, or equal approved rebate set.	No	1	
	<b><u>LOCKS</u></b>			
	<b><u>Stainless Steel:</u></b>			
6	Union L-2115-78SS/R, or equal approved dead lock with adjustable roller latch.	No	1	
7	Union 21314-76/8SS, or equal approved 8mm dead lock.	No	6	
	<b>Carried to Collection</b>			
	Section No. 2 Building Work Bill No. 11 Ironmongery			R

8	Union L-2215-78SS/SL, or equal approved sash case silent latch lock.	No	4		
	<b><u>Satin Nickel</u></b>				
9	Assa abloy CY110GMED3333SN, or equal approved euro profile double cylinder.	No	5		
	<b><u>HANDLES</u></b>				
	<b><u>Stainless Steel:</u></b>				
10	Union 5305-05H, or equal approved rose profile escutcheon.	No	2		
11	Union SS5D76x304-06SS, or equal approved 22mm diameter tubular dove pull handle on 76 x 304mm blank back plate.	No	2		
12	Union SS6D66-22-05SS, or equal approved 22mm diameter tubular dove pull handle on 152 x 152mm back plate.	No	3		
13	Union SS5D67TL-5004SS, or equal approved 22mm diameter dove pull handle on 152 x 178mm L/R WC escutcheon plate.	No	6		
14	Union PHD-CF-300-22SS, or equal approved 22mm diameter pull handle with flange fixing.	No	6		
	<b><u>PUSH PLATES, KICKING PLATES, ETC.</u></b>				
	<b><u>Stainless Steel:</u></b>				
15	813 x 300 x 1,6mm Thick kick plate, fixed with approved adhesive and six times countersunk holed for and screwed to door with chromium plated dome headed screws.	No	3		
16	794 x 1000 x 1,6mm Thick bumper plate, fixed with approved adhesive and six times countersunk holed for and screwed to door with chromium plated dome headed screws.	No	1		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 11 Ironmongery			R	

17	813 x 300 x 1,6mm Thick bumper plate, fixed with approved adhesive and six times countersunk holed for and screwed to door with chromium plated dome headed screws.	No	3		
18	813 x 1000 x 1,6mm Thick bumper plate, fixed with approved adhesive and six times countersunk holed for and screwed to door with chromium plated dome headed screws.	No	7		
19	900 x 1000 x 1,6mm Thick bumper plate, fixed with approved adhesive and six times countersunk holed for and screwed to door with chromium plated dome headed screws.	No	1		
20	450 x 1000 x 1,6mm Thick bumper plate, fixed with approved adhesive and six times countersunk holed for and screwed to door with chromium plated dome headed screws.	No	1		
21	40 x 25 x 1000mm High x 1.6mm thick U-shaped door edge protector with and including laser cut outs for hinges, fixed with approved adhesive and five times countersunk holed for and screwed to edge of doors.	No	5		
22	44 x 25 x 1000mm High x 1.6mm thick U-shaped door edge protector with and including laser cut outs for hinges, fixed with approved adhesive and five times countersunk holed for and screwed to edge of doors.	No	1		
<b><u>DOOR CLOSERS</u></b>					
<b><u>Silver</u></b>					
23	Assa abloy DC700/EN 3-6, or equal approved cam motion door closer.	No	1		
24	Assa abloy DC700DA/EN 3-6, or equal approved cam motion door closer.	No	6		
<b><u>BATHROOM FITTINGS</u></b>					
25	Franke STRx600 , or equal approved standard stainless steel wall mounted paper towel dispenser size 300 x 134 x 305mm plugged and fixed to wall.	No	11		
<b>Carried to Collection</b>					
Section No. 2 Building Work Bill No. 11 Ironmongery				R	

26	Franke STRX605, or equal approved standard stainless steel wall mounted waste container size 360 x 270 x 520mm plugged and fixed to wall.	No	11		
27	Franke STRX618 2120041, or equal approved standard stainless steel wall mounted soap dispenser size 100 x 134 x 304mm plugged and fixed to wall.	No	11		
28	Franke STRX672 -212004, or equal approved standard stainless steel wall lockable toilet roll holder size 156 x 141 x 303mm plugged and fixed to wall.	No	4		
<b><u>GRAB RAILS, ETC.</u></b>					
29	32mm Diameter x 800mm girth grade 304 stainless steel straight disabled rail twice bent at 90 degrees including mounting brackets screwed and plugged to wall projecting 150mm.	No	1		
30	32mm Diameter x 300 x 300 x 300mm left hand dog leg side rail twice bent at 45 degrees including mounting brackets screwed and plugged to wall projecting 80mm.	No	1		
<b><u>DOOR NUMBER PLATES</u></b>					
<b><u>Greensquare, or equal approved flat modular sign system with matt aluminium plate, size overall 30 x 100mm, engraved in black lettering (Font: Arial - 55pt) including silver end caps with and including expansion bolts, stainless steel screws, plugs etc. fixed to brickwork, concrete, mild steel, aluminium, etc with approved adhesive.</u></b>					
31	Sign size overall 160.5mm wide x 43.4mm height x 11.3mm deep.	No	11		
<b><u>SIGNAGE</u></b>					
<b>Carried to Collection</b>					
Section No. 2 Building Work Bill No. 11 Ironmongery				R	

	<b><u>Vista square, or equal approved, flat modular sign system consisting of aluminium frame including smart stable end caps and clear lenses fixed to brickwork, concrete, mild steel, aluminium, etc. in strict accordance with the manufacturer's specifications:</u></b>				
32	Portrait wall frame sign size overall 190.2mm wide x 40mm high (wffp314).	No	1		
33	Portrait wall frame sign size overall 190.2mm wide x 197mm high (wffp34).	No	3		
34	Portrait wall frame sign size overall 140.2mm wide x 40mm high (wffp308).	No	4		
35	Portrait wall frame sign size overall 232.5mm wide x 347mm high (wffp53).	No	8		
36	Landscape wall frame sign size overall 500mm wide x 190.2mm high (wffl35).	No	10		
	<b><u>Vista square, or equal approved, flat modular sign system consisting of suspended aluminium frame including hanging cables, clear lenses etc. suspended from ceiling in strict accordance with the manufacturer's specifications:</u></b>				
37	Suspended frame sign size overall 580mm wide x 190.2mm high (susf18).	No	1		
	<b><u>High quality printing of various images printed onto and including paper inserts or substrate, suitable for the following size signs:</u></b>				
38	Insert to suit wall frame sign size overall 190.2mm wide x 197mm high.	No	3		
39	Insert to suit wall frame sign size overall 232.5mm wide x 347mm high .	No	8		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 11 Ironmongery				R

	<b><u>High quality printing (Font: Arial - 55pt) of various words and numerals printed onto and including paper inserts or substrate, suitable for the following size signs:</u></b>				
40	Insert to suit wall frame sign size overall 190.2mm wide x 40mm high.	No	1		
41	Insert to suit wall frame sign size overall 140.2mm wide x 40mm high.	No	4		
	<b><u>High quality printing (Font: Arial Rounded MT - 110pt) of various words and numerals printed onto and including paper inserts or substrate, suitable for the following size signs:</u></b>				
42	Insert to suit wall frame sign size overall 500mm wide x 190.2mm high.	No	10		
	<b><u>High quality printing (Font: Arial Rounded MT - 200pt) of various words and numerals printed onto and including paper inserts or substrate, suitable for the following size signs:</u></b>				
43	Insert to suit suspended frame sign size overall 580mm wide x 190.2mm high.	No	1		
	<b><u>FIRE SIGNAGE</u></b>				
	<b><u>380mm x 190mm SABS approved photoluminescent signs mounted in aluminium frames and fixed to walls</u></b>				
44	Escape sign E1.	No	1		
	<b><u>570mm x 190mm SABS approved photoluminescent signs mounted in aluminium frames and fixed to walls</u></b>				
45	Fire equipment and arrow sign F4.	No	1		
46	Fire equipment and arrow sign F5.	No	1		
47	Fire equipment and arrow sign F6.	No	1		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 11 Ironmongery				R

	<b><u>570mm x 190mm SABS approved photoluminescent signs mounted in aluminium frames and suspended from concrete soffits with and including steel cables:</u></b>				
48	Fire equipment and arrow sign F5/F6.	No	1		
49	Escape sign E16/E17.	No	1		
	<b><u>SUNDRIES</u></b>				
	<b><u>Stainless Steel</u></b>				
50	Union SS8025SS, or equal approved, hat and coat hook with buffer.	No	3		
51	Union 99011SS, or equal approved, 27mm wall door stop.	No	9		
52	Union 99022SS, or equal approved, 82mm wall projection door stop.	No	9		
	<b><u>Satin Chrome</u></b>				
53	Union CZ8731SC, or equal approved, door stop.	No	1		
	<b><u>Silver</u></b>				
54	Dormakaba D360/B, or equal approved 55mm stroke foot operated door holder.	No	1		
	<b><u>Nickel</u></b>				
55	Union RH7024, or equal approved, patent fixing screws.	No	1		
	<b><u>SUSPENDED BEDSCREEN RAILS</u></b>				
	<b><u>Hospi-Track SK/Cfix, or equal approved natural anodised (10 micron) extruded profile shadowline suspended cubical bedscreen rails including all runners (12 per meter), stop ends, spacers, wall mountings, suspension hangers, etc. installed complete as per the manufacturer's instructions:</u></b>				
56	Bedscreen rails suspended exceeding 1m but not exceeding 2m below timber trusses.	m	11		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 11 Ironmongery				R

57	Ditto, but circular on plan not exceeding 1m radius.	m	4		
	<b><u>BLINDS</u></b>				
	<b><u>Medispec Africa, or equal approved, manually operated 25mm standard privacy and light control aluminium venetian blinds including classic string tape, stainless steel gearbox and working mechanism, fixed to underside of lintel as per manufacturer's instructions:</u></b>				
58	Blinds to suit opening size 500 x 1000mm high.	No	7		
59	Blinds to suit opening size 755 x 1000mm high.	No	4		
60	Blinds to suit opening size 1020 x 1000mm high.	No	7		
61	Blinds to suit opening size 1460 x 1000mm high.	No	1		
62	Blinds to suit opening size 1511 x 1000mm high.	No	1		
	<b><u>WRITING BOARDS</u></b>				
63	Parrot, or equal approved 1500 x 1000mm High white magnetic writing board with anodised aluminium frame and steel enamel writing surface, complete with accessory holders, plugged to wall.	No	1		
64	Parrot, or equal approved wall mounted carpet covered pinning board 1000 x 1000mm high with 20mm standard anodised aluminium frame complete with accessory holders, fixing components, etc. plugged to wall.	No	2		
65	Parrot, or equal approved wall mounted carpet covered pinning board 1500 x 1000mm high with 20mm standard anodised aluminium frame complete with accessory holders, fixing components, etc. plugged to wall.	No	9		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 11 Ironmongery			R	

Section No. 2 Building Work Bill No. 11 Ironmongery <b><u>COLLECTION</u></b>			Amount
Total Brought Forward from Page No.	Page No		
	242		
	243		
	244		
	245		
	246		
	247		
	248		
	249		
<b>Carried Forward to Summary of Section No. 2</b>			
Section No. 2 Building Work Bill No. 11 Ironmongery		R	

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 12</u></b></p> <p><b><u>STRUCTURAL STEELWORK</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>			
	<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Shop drawings</u></b></p> <p>The contractor will be required to prepare shop details for the work which must be submitted to the Engineer for approval before fabrication is started. Approval of shop details by the Engineer will include the following:</p> <p>a) Examination of member sizes for consistency with design requirements.</p> <p>b) Examination of all connections designed and/or detailed by the fabricator, for adequacy of load transferance.</p> <p>c) Approval of leading dimensions which are taken to include such dimensions as may influence the design (eg, depth of trusses and girders) or which may grossly affect site programme (eg, truss spans and stanchion heights).</p> <p>Notwithstanding any approval of these details, the contractor shall remain responsible for ensuring that the dimensions, details and workmanship result in the correct assembly of the work.</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 12 Structural Steelwork</p>		R	

	<p><b><u>Material and workmanship</u></b></p> <p>The steelwork is to be fabricated from mild steel to SABS 1431 Grade 300W. The whole of the fabrication and workmanship generally is to be in strict accordance with SABS 0162-1984 as amended. The material shall be of best quality throughout, free from loose rust or millscale, true to thickness and profile throughout and of the section and mass specified subject to a 2% tolerance for rolling margin. Consideration will be given to any detail variation which the contractor may wish to make with the view to the simplification of either fabrication, delivery or erection. Substitutions must be made at the contractor's own expense.</p> <p>The contractor shall provide Works Test Certificates where so required by the Architect.</p> <p><b><u>Testing</u></b></p> <p>The Engineer shall be at liberty to select test pieces from steelwork in the workshop or on the site and to have them tested. The expense of such tests are to be borne by the contractor if the steelwork does not comply with the standards laid down above.</p> <p><b><u>Hold down bolts</u></b></p> <p>Holding down bolts and other fixing devices which are to be embedded in concrete must be supplied to the principal contractor on request together with the necessary information, identification and templates.</p> <p>2mm Mild steel plate templates provided on a scale of one template for every five groups of bolts, suitably marked to ensure easy identification are to be supplied to the principal contractor.</p> <p>Any costs incurred by subsequent repositioning of bolts, etc resulting from the contractor having failed to furnish adequate information, identification and templates will be for the contractor's account.</p> <p><b><u>Welding</u></b></p> <p>Welding shall be in accordance with SABS 044 "Welding: Parts I, II and III".</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 12 Structural Steelwork</p>			
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--

<p>Welding shall be carried out in a manner which will prevent any distortion of the weld or the parent section.</p> <p>All welds shall have adequate root fusion and shall be free from cracks, porosity or other irregularities and any undercutting shall be made good by the deposition of additional runs of weld metal.</p> <p>Any completed welds showing cracks, cavities or other effects shall be cut out and made good at the contractor's own expense.</p> <p>Mild steel electrodes shall comply with SABS 455 "Covered Electrodes for Manual Arc Welding of Mild Steel and Medium High Tensile Steel".</p> <p><b><u>Bolts</u></b></p> <p>Bolts shall have well-formed heads forged from the solid. Nuts shall closely fit the bolts so that they can only just be turned by hand and at least one clear thread shall project beyond the nut when fully tightened. All bolts shall have one washer under the nuts and shall be so tightened that the threaded portion does not bear on the members connected.</p> <p>Where bolt heads or nuts bear upon bevelled surfaces they shall be provided with tapered washers of 2,3 mm mean thickness to provide a seating square with the axis of the bolt.</p> <p><b><u>Friction grip bolts</u></b></p> <p>Connections specifying high strength friction grip bolts are to be in strict accordance with SABS 094 "Bolted Friction Grip Joints in Structural Steelwork" and the bolts used are to be in accordance with BS 3139 Part 1 : 1959 "General Grade Bolts, High Strength Friction Grip Bolts for Structural Engineering".</p> <p>Notwithstanding the above, the following must be rigidly adhered to :</p> <p>a) Two-case hardened washers, one flat or bevelled under the head and the other flat or bevelled under the nut shall be used with each bolt.</p>			
<p><b>Carried to Collection</b></p>		<p>R</p>	
<p>Section No. 2 Building Work Bill No. 12 Structural Steelwork</p>			

<p>b) Contact surfaces shall not be painted and shall be thoroughly cleaned free of dirt, oil, loose scale, burrs and other defects which are liable to reduce friction resistnace between surfaces.</p> <p>c) At all times the correct torques shall be applied to the different sizes of bolts.</p>	<p><b><u>Erection</u></b></p>	<p>The steelwork generally is to be fabricated in the contractor's works having due regard to transport and erection facilities. He must supply all erection tackle, temporary erection bracing, erect and plumb all steelwork and supply all steel wedges and tacks as required.</p>	<p>Items may be detailed for delivery "piece small" or the contractor may prefabricate if he is satisfied that suitable arrangements for transport can be made.</p>	<p>Connections are to be designed for the forces indicated on the drawings or to the maximum capacity of the members.</p>	<p><b><u>Cleaning and painting</u></b></p>	<p>All structural steel is to be thoroughly degreased to remove all grease or oil and then wire-brushed, scraped or sand-papered to remove all rust, mill-scale or surface contaminations and is to be immediately given one coat zinc chromate, allowed to dry overnight and given one coat of universal undercoat prior to delivery to site. All damaged paintwork is to be made good on site after erection is complete.</p>	<p><b><u>Testing of welders</u></b></p>	<p>Tenderers must include in their rates for the testing of any welder used on the work who has not been tested within a period of six months immediately preceding his employment on this contract.</p>	<p><b>Carried to Collection</b></p>	<p>R</p>	<p>Section No. 2 Building Work Bill No. 12 Structural Steelwork</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------	--------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------	----------	---------------------------------------------------------------------------------

	<p><b><u>Painting/corrosion protection specification</u></b></p> <p>a) All steelwork shall be mechanically wire-brushed to ST3O blast clean to SA2.</p> <p>b) All steelwork shall receive one coat primer to DFT-100 micron.</p> <p><b><u>STEEL COLUMNS, BEAMS, POSTS, ETC.</u></b></p> <p><b><u>Welded columns in single lengths with flat section base, top, bearer and connection plates bolted to concrete base:</u></b></p> <p>1 100 x 100 x 4mm Square hollow section columns including base plates, connectors, etc. t 0.46</p> <p><b><u>Welded beams and rafters in single lengths with flat section base, top, bearer and connection plates bolted to concrete base:</u></b></p> <p>2 100 x 100 x 4mm Square hollow section beams including plates, cleats, connectors, bolts, etc. t 0.12</p> <p><b><u>Bolts, etc.:</u></b></p> <p>3 M16 x 190mm long anchor bolts including nuts and washers with one end welded to steel plate (plate elsewhere). No 40</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 12 Structural Steelwork</p>			<p style="text-align: center;">R</p>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--------------------------------------

<p>Section No. 2 Building Work Bill No. 12 Structural Steelwork <b><u>COLLECTION</u></b></p>	<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 251 252 253 254 255</p>	<p><b>Amount</b></p>	
<p style="text-align: center;"><b>Carried Forward to Summary of Section No. 2</b></p> <p>Section No. 2 Building Work Bill No. 12 Structural Steelwork</p>			<p style="text-align: center;">R</p>	

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 13</u></b></p> <p><b><u>METALWORK</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>			
	<p><b><u>SUNDRY STAINLESS STEELWORK TYPE 304 (18/8)</u></b></p> <p><b><u>Corner protectors:</u></b></p> <p>1 75 x 75 x 1.6mm Thick angle section stainless steel corner protector fixed with plug and screw with countersunk stainless steel screws fixed with patent adhesive to plastered walls. m 10</p> <p><b><u>Balustrades:</u></b></p> <p>Shop drawings, signed by the Contractor's Engineer, shall be provided to the Architect for approval prior to fabrication and an Engineers certificate shall be provided on completion</p> <p>2 931mm High balustrade comprising of 38mm diameter x 1.5mm thick intermediate posts at maximum 1500mm centres core drilled and epoxy grouted into concrete floor including 75mm diameter x 1.2mm thick dome floor flange, 25mm diameter x 1.5mm thick horizontal top and bottom rails, 16mm diameter x 1.5mm thick vertical members welded between top and bottom rails at maximum 116mm centres, 50mm diameter x 1.5mm thick continuous handrail fixed to intermediate posts with and including 12mm diameter pin, including all necessary core drilling, epoxy grouting, spacer plugs, stainless steel cover plates, etc. (as per attached Architect's drawing HDG-040-001). m 22</p>			
	<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 13 Metalwork</p>		R	

<b><u>MILD STEELWORK</u></b>					
<b><u>Support structure to rollershutter doors:</u></b>					
3	100 x 100 x 4 Kg/m square hollow section welded columns in single lengths with flat section base, top and connection plates including base plates, connectors, etc. bolted to concrete base.	m	6		
4	M16 x 190mm long anchor bolts including nuts and washers with one end welded to steel plate (plate elsewhere).	No	8		
<b><u>DOOR FRAMES</u></b>					
<b><u>1,6mm Thick brushed grade 304 stainless steel purpose made hospital type door frame with mitred top corners, joints seam welded, corner stiffeners in the reveals, rebated on one side and other side splayed at 45 degrees suitable for one brick walls complete with hoop iron anchors welded to frame, one adjustable striking plate suitable for cylinder locks, three rubber shock absorbers in rebate, 20 x 300 x 2mm thick horizontal flat bar reinforcement below fanlight for the width of the frame, mortar infill between frame and reveal, purpose made sheersash 36 aluminium sub-frame for fanlight including sealing frame surround with a soft seal and glazed with a 6mm NS PVB laminate safety glass to fanlight including, standard glazing beads, sealants, etc.:</u></b>					
5	Frame for one and a half leaf door size overall 1350 x 2032mm high and fixed fanlight 305mm high.	No	1		
6	Frame for double leaf door size overall 1588 x 2032mm high and fixed fanlight 305mm high.	No	1		
<b>Carried to Collection</b>					
Section No. 2 Building Work Bill No. 13 Metalwork					R

	<p><u>1,6mm Thick pressed mild steel door frame rebated on two sides suitable for half brick walls complete with hoop iron anchors welded to frame, one adjustable striking plate suitable for cylinder locks, three rubber shock absorbers in rebate, mortar infill between frame and reveal, purpose made sheersash 36 aluminium sub-frame for fanlight including sealing frame surround with a soft seal and glazed with a 6mm NS PVB laminate safety glass to fanlight including, standard glazing beads, sealants, etc.:</u></p>			
7	<p>Frame for single leaf door size overall 813 x 2032mm high and fixed fanlight 305mm high.</p>	No	2	
	<p><u>1,6mm Thick pressed mild steel door frame rebated on two sides suitable for one brick walls complete with hoop iron anchors welded to frame, one adjustable striking plate suitable for cylinder locks, three rubber shock absorbers in rebate, mortar infill between frame and reveal, purpose made sheersash 36 aluminium sub-frame for fanlight including sealing frame surround with a soft seal and glazed with a 6mm NS PVB laminate safety glass to fanlight including, standard glazing beads, sealants, etc.:</u></p>			
8	<p>Frame for single leaf door size overall 813 x 2032mm high and fixed fanlight 305mm high.</p>	No	8	
	<p><b><u>STEEL ROLLER SHUTTERS, ETC.</u></b></p> <p><u>Roll-Up Serranda Series 2000 Plus polyester powder coated (interpon D1025) push-up 75 x 1,0mm thick endlocked slatted curtain roller shutter with overhead box 335mm high including canopy cover, standard bottom rail, 75mm wide guides, extruded aluminium T-bar with rubber seal, powder coated ancillary components including 4,5mm thick end plates, guide rails, slide bolt, guide lock, canopy cover fixed to brick jambs and structural steel beam:</u></p>			
9	<p>Rollershutter door size overall 920 x 1105mm.</p>	No	2	
	<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 13 Metalwork</p>			R



<p><b><u>General:</u></b></p> <p>All glazed aluminium windows, sliding doors, doors, shopfronts, skylights, etc. shall be designed, manufactured, supplied and installed in strict compliance with the "Association of Architectural Aluminium Manufacturers of South Africa (AAAMSA), General Specification for Architectural Aluminium and Glass Products February 2005 Edition" and SANS 10137.</p> <p>All descriptions shall be deemed to include transoms, mullions, etc. as per the Architect's drawings.</p> <p><b><u>Design and installation:</u></b></p> <p>The Sub-Contractor shall be required to design the entire installation, provide all labour, materials, equipment and services required to complete the installation as specified herein.</p> <p>The Sub-Contractor shall ensure that the necessary wind pressure provisions have been incorporated within the design criteria. The Sub-Contractor shall submit his wind design criteria to the Architect for inspection.</p> <p>The Sub-Contractor shall allow for expansion of glass, framing, surrounding structures, etc.</p> <p>The Sub-Contractor shall allow for and produce fully detailed workshop drawings (<b>3 copies</b>) including samples of all ironmongery within 14 working days of the Main Contractors request.</p> <p><b><u>Fire resistance:</u></b></p> <p>The installation shall conform to the local authorities fire resistance standards.</p> <p><b><u>Templates:</u></b></p> <p>Templates formed of 25 x 25mm square hollow section steel are to be provided in each opening to ensure that all windows, doors, shopfronts, skylights, etc. are built in plumb and square.</p> <p>The subcontractor is to use his discretion in providing a sufficient quantity of templates as required to complete the Works as per the Main Contractors programme.</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 13 Metalwork</p>			
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--

<p><b><u>Grounds:</u></b></p> <p>19 x 25mm Wrought SA pine grounds are to be fitted all round windows, doors, etc. Where grounds are visible they should be painted to form a shadowline.</p> <p><b><u>Sealing:</u></b></p> <p>Window frames are to be sealed all round internally and externally against the building structure with "Sanisil" silicone sealant with fungal inhibitors to prevent water ingress.</p> <p><b><u>Weather seals:</u></b></p> <p>All windows, doors, shopfronts, skylights, etc. are to be fitted with approved woolpile weather seals.</p> <p><b><u>Ironmongery to doors:</u></b></p> <p>Door leaves are to be hung on one and a half pairs of 100 x 75mm butt hinges and fitted with one spring clip door holder. In addition double doors are to be fitted with one 150mm and one 200mm white powder coated flush lever bolt.</p> <p>Windows are to include heavy duty stainless steel friction stays and epoxy coated window fasteners and locking mechanisms with keys.</p> <p>Tenderers shall submit full specifications of ironmongery quoted which shall include all furniture, locks, handles, butt hinges, floor spring hinges, etc.</p> <p>The Sub-Contractor shall be required to submit ironmongery samples for approval prior to installation.</p> <p>Sub-Contractors are to note that the approval of shop drawings does not automatically indicate acceptance of ironmongery proposals.</p>	<p style="text-align: center;"><b>Carried to Collection</b></p>	<p style="text-align: center;">R</p>		
<p>Section No. 2 Building Work Bill No. 13 Metalwork</p>				

<p><b>Prices:</b></p> <p>All glazed aluminium windows, sliding doors, doors, shopfronts, skylights, etc. must include for all jointing, notching, cutting, etc. and for setting up and fixing in position complete with glass, glazing beads, external cills, ironmongery, fixing brackets, lugs, bolts, timber grounds, silicone sealant, templates, etc. all as detailed and scheduled on the drawings and as necessary for the satisfactory execution of the work.</p> <p><b>Factory quality control:</b></p> <p>The Sub-Contractor shall afford the Main Contractor full access to plant, shop and assembly point to view and inspect the process and method employed in the fabricating and assembly of glazed aluminium windows, sliding doors, doors, shopfronts, skylights, etc.</p> <p><b>Protection and cleaning:</b></p> <p>All aluminium must be protected against damage by covering with temporary casings (masking tape, plastic coatings, etc.) and against deterioration or discolouration caused by mortar, wax, paint, etc., all to the entire satisfaction of the Principal Agent. On completion all such protection shall be removed and work cleaned down and left in proper working order.</p> <p>All glazing is to be protected from damage, breakage, scratches, etc. and allowances shall be made for polishing the glass as and when instructed by the Main Contractor.</p> <p><b>Powdercoating:</b></p> <p>All aluminium is to be manufactured from architectural aluminium alloy, hollow extruded with mechanically cleated corners and all fittings to be corrosion resistant. Pre-Treatment etch rate of at least 2g/m<sup>2</sup>. AKZNOBEL Interpon AL240P Primer / flash anodise without sealing. D1025 Top Coat Qualicoat Class 2 approved according to AAAMSA 2603 &amp; SANS1796:2013.</p> <p>Standard Architectural powder coating (50 - 100µ thick) with 15 year warranty. Manufacturer Approved applicator to be used.</p>	<p style="text-align: center;"><b>Carried to Collection</b></p>	<p style="text-align: center;">R</p>		
<p>Section No. 2 Building Work Bill No. 13 Metalwork</p>				

	<p><b><u>Drawings:</u></b></p> <p>Tenderer's are to refer to the Architect's drawings issued with the Bill of Quantities for further supplementary preambles.</p> <p><b><u>ALUMINIUM WINDOWS AND SHOPFRONTS</u></b></p> <p><b><u>Purpose made epoxy powder coated wispeco clip 44, or equal approved, aluminium shopfronts with 150mm mullions, complete with frames in brick openings, glazed with and including a polyvinyl butyral (PVB) interlayer bonded between glass. Glazing requirements as follows - 6mm thick NS PVB laminated safety glass:</u></b></p> <p>15 Shopfront with mullions, three top hung opening sections and six fixed panes size overall 2471 x 2210mm high (ALTP001). No 1</p> <p>16 Shopfront with mullions, three top hung opening sections and six fixed panes size overall 2471 x 2210mm high (ALTP002). No 1</p> <p>17 Shopfront with mullions, four top hung opening sections and one fixed pane size overall 4918 x 595mm high (ALTP003). No 1</p> <p>18 Shopfront with mullions, one double leaf door, four top hung opening sections and nine fixed panes size overall 4918 x 2550mm high (ALHD001). No 1</p> <p><b><u>RECEPTION COUNTER SCREENS</u></b></p> <p><b><u>Purpose made wispeco, or equal approved, screens formed of 3mm thick epoxy powder coated U-channel frame glazed with and including 6mm thick clear glass, with frame fixed to recess in formica cladding (cladding elsewhere) (as per attached Architects drawing HDG-045-105 / HDG-045-P01 / HDG-045-P02 / HDG-045-P03):</u></b></p> <p>19 Fixed pane screen size overall 1454 x 835mm high. No 1</p> <p>20 Fixed pane screen size overall 1454 x 835mm high. No 1</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 13 Metalwork</p>			
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--

	<p><u>Purpose made wispeco, or equal approved, screens formed of 3mm thick epoxy powder coated U-channel frame glazed with and including 10mm thick obscured safety glass laminated with sandblasted film, with frame fixed to recess in formica cladding and partition panel (cladding and partition panel elsewhere) (as per attached Architects drawing HDG-045-105 / HDG-045-P01 / HDG-045-P02 / HDG-045-P03):</u></p>			
21	Fixed pane screen size overall 648 x 1533mm high.	No	1	
22	Fixed pane screen size overall 632 x 1873mm high.	No	1	
	<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 13 Metalwork</p>			<p style="text-align: center;">R</p>

	<p>Section No. 2</p> <p>Building Work</p> <p>Bill No. 13</p> <p>Metalwork</p> <p><b><u>COLLECTION</u></b></p> <p>Total Brought Forward from Page No.</p>	<p><b>Page No</b></p> <p>257</p> <p>258</p> <p>259</p> <p>260</p> <p>261</p> <p>262</p> <p>263</p> <p>264</p> <p>265</p>		<p><b>Amount</b></p> <p>-----</p>
	<p><b>Carried Forward to Summary of Section No. 2</b></p> <p>Section No. 2</p> <p>Building Work</p> <p>Bill No. 13</p> <p>Metalwork</p>		<p>R</p>	

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 14</u></b></p> <p><b><u>PLASTERING</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>			
	<p><b><u>SELF-LEVELLING SCREED, SCREED REPAIRS, ETC.</u></b></p>			
	<p><b><u>Prepare surface and apply two coats approved primer, followed by a single application of tal screedmaster, or equal approved, self-levelling screed trowelled by hand in strict accordance with the manufacturer's instructions:</u></b></p>			
1	Average 5mm thick on concrete floors.	m2	248	
	<p><b><u>Prepare surface and apply two coats tal x-shield vaporstop HB, or equal approved, moisture barrier in strict accordance with the manufacturer's instructions:</u></b></p>			
2	On concrete floors.	m2	248	
	<p><b><u>Clean down and prepare surface, apply 1 part tal keycoat, or equal approved, primer mixed with 2 parts tal keymix, or equal approved, adhesion primer as per the manufacturer's instructions:</u></b></p>			
3	On screed.	m2	120	
	<p><b><u>SCREEDS</u></b></p>			
	<p>Carried to Collection</p>			
	<p>Section No. 2 Building Work Bill No. 14 Plastering</p>			
				R

	<b><u>1:3 Cement plaster screeds on concrete:</u></b>				
4	35mm Thick on floors.	m2	57		
5	35mm Thick on narrow widths.	m2	6		
	<b><u>INTERNAL PLASTER</u></b>				
	<b><u>One coat cement plaster minimum 12mm thick (1:6) finished smooth with a steel float including all labours on brickwork:</u></b>				
6	On walls (part on concrete).	m2	44		
7	In narrow widths.	m2	4		
	<b><u>Clean down, prepare surface and apply plaster key adhesion primer and one coat cement plaster minimum 12mm thick (1:6) finished smooth with a steel float including all labours on brickwork:</u></b>				
8	On internal plastered walls, columns, recessed bands, etc	m2	5		
	<b><u>CRACK REPAIRS</u></b>				
	<b><u>Repairs to non-structural cracks in walls:</u></b>				
9	Scrape off and sand down any loose flaking existing plaster and paint and remove loose material from crack, clean off algae or fungal growth, if any, using sodium hypochlorite solution (1 part bleach with 2 parts water), apply one coat professional gypsum and plaster primer (pp700), or equal approved, primer and repair crack with professional waterproofing compound (pwc520), or equal approved, all in strict accordance to Architect's instructions.	m	30		
10	Rake out cracks using an angle grinder to a minimum of 3mm wide x 3mm deep, apply one coat professional gypsum and plaster (PP700), or equal approved, primer, polycell polyfilla mendall 90, or equal approved, filler, one coat professional gypsum and plaster (PP700), or equal approved, primer and one coat professional waterproofing compound (pwc520), or equal approved, all in strict accordance with the manufacturers instructions.	m	25		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 14 Plastering			R	

11	<p><b><u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u></b></p> <p><b><u>Corner protectors, dividing strips, etc</u></b></p> <p>25 x 3mm Kirk BFB253, or equal approved, brass dividing strips between different floor finishes fixed in strict accordance with the manufacturer's instructions.</p> <p style="text-align: right;">m</p>	5			
	<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 14 Plastering</p>			R	

<p>Section No. 2 Building Work Bill No. 14 Plastering <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 267</p>		<p><b>Amount</b></p>	
	268		-----	
	269		-----	
<p><b>Carried Forward to Summary of Section No. 2</b> Section No. 2 Building Work Bill No. 14 Plastering</p>			R	

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 15</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>			
	<p><b><u>WALL TILING</u></b></p> <p><b><u>Allow a Prime Cost Amount of R300/m2 for matt glazed ceramic tiles fixed with tal professional, or equal approved, adhesive to plaster (plaster elsewhere) and flush pointed with tal wall and floor grout, or equal approved, jointing compound. For splashbacks, grout to be mixed with tal bond, or equal approved, additive:</u></b></p> <p>1 On walls. m2 35</p> <p>2 Extra over for laying ceramic tiles in patterns. m2 35</p> <p>3 In splashbacks. m2 7</p> <p>4 In narrow widths. m2 4</p>			
	<p><b><u>FLOOR TILING</u></b></p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 15 Tiling</p>			R

	<b><u>Allow a Prime Cost Amount of R300/m2 for vitrified full body porcelain tiles fixed with tal goldstar 12, or equal approved, tile adhesive incorporating tal bond, or equal approved, additive on plaster bedding (plaster elsewhere) and flush pointed with tal high traffic grout, or equal approved, waterproof jointing compound. Tile skirting should be flush pointed with coprox waterproof grout, or equal approved, jointing compound:</u></b>				
5	On floors.	m2	45		
6	100mm High skirting.	m	39		
	<b><u>SUNDRIES</u></b>				
	<b><u>Corner protectors, etc.:</u></b>				
7	Kirk M-Trim ASE080, or equal approved, 9.2mm high anodised elite aluminium edge trim fixed in strict accordance with the manufacturer's instructions.	m	39		
8	Kirk M-Trim PRE, or equal approved, 10 x 10mm PVC internal corner trim fixed in strict accordance with the manufacturer's instructions.	m	12		
9	Kirk M-Trim ASSJ390, or equal approved, aluminium structural screed expansion joint 39mm high with natural mill colour finish fitted with 38mm wide flexible PVC infill, plugged and screwed to floor base on one side of expansion joint in strict accordance with the manufacturer's instructions.	m	21		
10	Kirk M-Trim SMJ100, or equal approved, stainless steel heavy duty movement joint 10mm high fitted with 6mm wide polyurethane infill, plugged and screwed to floor base in strict accordance with the manufacturer's instructions.	m	11		
11	Kirk M-Trim BFB253, or equal approved, 25 x 3mm brass division strip embedded in screed in strict accordance with the manufacturer's instructions.	m	2		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 15 Tiling			R	

<p>Section No. 2 Building Work Bill No. 15 Tiling <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 271</p>		<p><b>Amount</b></p>	
	<p>272</p>		<p>-----</p>	
			<p>-----</p>	
<p><b>Carried Forward to Summary of Section No. 2</b> Section No. 2 Building Work Bill No. 15 Tiling</p>			<p>R</p>	

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 16</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>			
	<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>All stainless steel fittings to be fitted with stainless steel bolts/screws etc.</p> <p>All stainless steel fittings (sinks etc.) to be ordered with overflows.</p>			
	<p><b><u>RAINWATER DISPOSAL</u></b></p> <p><b><u>0,9mm Thick watertite h3003h 14, or equal approved, square profile aluminium seamless gutters and downpipes, pre-coated internally and externally with colourtech q4 with matching splashplate including cut and mitred angles, covered with a mitre strip externally and sealing with dow corning 813 silicone sealer including brackets at 600mm centres, 50 x 20mm overflow spigot, expanded aluminium mesh leaf guard set, straps, etc.:</u></b></p>			
1	150 x 150mm Profile eave gutter.	m	70	
2	Extra for stopped end.	No	15	
	<p><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 16 Plumbing and Drainage</p>		R	

3	Extra for joint and outlet to 100 x 100mm downpipe.	No	15		
4	100 x 100 x 2mm Thick downpipe.	m	42		
5	Extra for eaves offset.	No	5		
6	Extra for shoe.	No	15		
<b><u>SANITARY FITTINGS</u></b>					
All joints between sanitary fittings and walls or floors to be sealed watertight with colourless silicon sealant.					
<b><u>Approved stainless steel type 304 (18/10):</u></b>					
7	Franke oval a (357456), or equal approved, wall mounted wash hand basin with a 50mm splashback and two tap holes, size 420 x 340mm complete with cobra cob-317-40/n, or equal approved, unslotted waste including fixing in position with four M6 expansion bolts to secure the basin to the wall and connecting complete as per manufacturer's instructions (taps elsewhere).	No	2		
8	Franke bbr6 (350604), or equal approved, bedpan and bottle rack including bottle rods to front of unit complete with removable drip tray, 19mm diameter drip pipe, bottle rods with rubber tip, 4No. anchor bolts, fixed in position complete in strict accordance with the manufacturer's instructions.	No	1		
9	Franke, or equal approved, slop hopper with cowling (hdgx-slop 1), size 535 x 685 x 510mm, fixed to floor with floor mounting brackets including 100mm high integral splashback to rear and both sides, 110mm waste outlet connected to S or P trap, integral flushing rim fitted with a back entry flush pipe inlet with and including cobra (cob-fj2-210/n), or equal approved, junior flush valve connected to water supply, 2No. cobra stella (cob-3306st/ext-15/nv), or equal approved, screw down bib taps, hinged bucket grid fixed to wall with 2No. 40 x 40mm square stainless steel gallows brackets and 4No. anchor bolts, etc. and fixing in position and connecting complete as per manufacturer's instructions.	No	1		
<b>Carried to Collection</b>					
Section No. 2 Building Work Bill No. 16 Plumbing and Drainage				R	

10	Kwikot (bha900x), or equal approved, single centre bowl overlay sink, overall size 900 x 595mm with one 410 x 350 x 150mm deep bowl, including a 12mm splashback at rear and fitted onto top (top elsewhere) including 1No. PVC combination overflow fitting, cobra (cob-317-40/n), or equal approved, waste and cobra (cob-309-40/n), or equal approved, anti theft plug and lavateria back entry spreader and fixing in position and connecting complete as per manufacturer's instructions.	No	1		
11	Kwikot (bha1200 x 595x), or equal approved, double end bowl overlay sink, overall size 1200 x 595mm with 2No. 410 x 350 x 150mm deep bowls, including a 12mm splashback at rear and fitted onto top (top elsewhere) including 2No. PVC combination overflow fittings, 2No. cobra (cob-317-40/n), or equal approved, wastes and 2No. cobra (cob-309-40/n), or equal approved, anti theft plugs and lavateria back entry spreader and fixing in position and connecting complete as per manufacturer's instructions.	No	1		
12	Franke el ( 350300), or equal approved, bedpan sluice sink, size 1130 x 685 x 1050mm with left hand pressed seamless sluice bowl with integral flushing rim, 150mm high integral splashback, 15mm deep hospital bead, 100mm apron, 110mm waste outlet connected to S or P trap (elsewhere specified), with and including cobra (cob-fm1-000), or equal approved, flush valve connected to water supply, 15mm round franke, or equal approved, bedpan spray nozzle, 15mm round franke, or equal approved, bottle spray nozzle activated by 2No 15mm quarter turn elbow action valves, 2No. 15mm franke, or equal approved, elbow action valves for pillar mixers, fixed to wall and supported on stainless steel square gallow brackets and legs with adjustable feet and brackets twice bolted to wall with M8 expansion bolts and each foot twice plugged and screwed to floor.	No	1		
13	Kwikot (utu1000x), or equal approved, single end bowl urine test sink, overall size 1000 x 595mm with 1No. 410 x 350 x 150mm deep bowl, including a 12mm splashback at rear and fitted onto top (top elsewhere) including 1No. PVC combination overflow fitting, 1No. cobra (cob-317-40/n), or equal approved, waste and 1No. cobra (cob-309-40/n), or equal approved, anti theft plug and lavateria back entry spreader and fixing in position and connecting complete as per manufacturer's instructions.	No	1		
<b>Carried to Collection</b>					
Section No. 2 Building Work Bill No. 16 Plumbing and Drainage					R

	<b><u>White vitreous china:</u></b>				
14	500mm Lecico atlas (atlbamed0500ue), or equal approved, double tap hole medical basin complete with cobra 308/n, or equal approved, waste and cobra 309-32n, or equal approved, anti theft plug, and fixing in position with and including stainless steel screws and washers to plugs in wall and connecting complete in strict accordance with the manufacturer's instructions.	No	2		
15	600mm Lecico atlas (atlbamed0600ue), or equal approved, double tap hole medical basin complete with cobra 308/n, or equal approved, waste and cobra 309-32n, or equal approved, anti theft plug, and fixing in position with and including stainless steel screws and washers to plugs in wall and connecting complete in strict accordance with the manufacturer's instructions.	No	9		
16	Lecico atlas, or equal approved, back to wall rimless pan set (atlpantworimue) with mdf seat (chiseastd0mdfuc), complete with and including grohe rondo (g-3715300), or equal approved, exposed back inlet flush valve with flow rate adjustment box for concealed installation with flush elbow pipe adjustable in length and stainless steel grohe skate (g-38445sd0), or equal approved, actuator plate with plastic fixing frame and hidden fixing screws including fixing in position and connecting complete in strict accordance with the manufacturer's instructions.	No	3		
17	Lecico atlas, or equal approved, raised paraplegic LL WC (parsetllb0raibe) with foot of bowl sealed to floor with abe dow corning, or equal approved, acetoxysilicone sealant and with mdf seat (chiseastd0mdfuc), complete with and including grohe rondo (g-3715300), or equal approved, exposed back inlet flush valve with flow rate adjustment box for concealed installation with flush elbow pipe adjustable in length and stainless steel grohe skate (g-38445sd0), or equal approved, actuator plate with plastic fixing frame and hidden fixing screws including fixing in position and connecting complete in strict accordance with the manufacturer's instructions.	No	1		
	<b><u>TRAPS, ETC.</u></b>				
18	Cobra watertech cob-340/n chromium plated bottle trap.	No	16		
	<b><u>TAPS, VALVES, ETC.</u></b>				
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 16 Plumbing and Drainage				R

	<b><u>Chromium plated:</u></b>				
19	Cobra watertech stella chromium plated screw down pillar tap (cob-3311st-15/nv) with hot and cold indices, manufactured in accordance with SANS 226:2004 Type 1 (BS 5412).	No	2		
20	Cobra watertech (cob-232-10/n) isolating ball type angle valve with and including 350mm braided flexi hose (c-15/350).	No	32		
21	Cobra watertech, or equal approved, medical elbow action chrome pillar tap (cob-503-21B/N), manufactured in accordance with SANS 226:2009 Type 2.	No	3		
22	Cobra watertech, or equal approved, medical elbow action wall mounted mixer (cob-515/055-21/n) with a cobra (cob-s-041), or equal approved, overarm swivel outlet, manufactured in accordance with SANS 226:2009 Type 2.	No	8		
23	Cobra watertech stella, or equal approved, sink mixer (cob-3396st/nv) with aerated swivel outlet, manufactured in accordance with SANS 226:2009 Type 2.	No	3		
	<b><u>ELECTRIC WATER HEATERS</u></b>				
24	Franke zip, or equal approved, stainless steel 7,5 litre hydroboil (Code: 2610291), size 318 x 198 x 578mm high with two way tap control connected to 15mm cold water supply with service valve, waste for safety valve connected to sink (sink elsewhere) and 220 volt 15 amp electrical power supply (water and power supply elsewhere), installed complete including all piping, fittings, valves, etc. in strict accordance with the manufacturer's instructions.	No	1		
	<b>Carried to Collection</b>				
	Section No. 2 Building Work Bill No. 16 Plumbing and Drainage				R

<p>Section No. 2 Building Work Bill No. 16 Plumbing and Drainage <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 274</p>		<p><b>Amount</b></p>	
	275		-----	
	276		-----	
	277		-----	
	278		-----	
<p><b>Carried Forward to Summary of Section No. 2</b></p>				
<p>Section No. 2 Building Work Bill No. 16 Plumbing and Drainage</p>		R		

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 17</u></b></p> <p><b><u>GLAZING</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>			
	<p><b><u>GLAZING TO EXISTING STEEL WINDOWS</u></b></p> <p><b><u>6mm NS clear laminated safety glass with Polyvinyl Butyral (PVB) plastic interlayers bedded in soft putty and secured with smooth hardened high quality glazing putty (glazing to comply with NBR Part N and SABS 0137 specifications):</u></b></p>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m2	2	
2	Panes exceeding 0,5m2 and not exceeding 2m2.	m2	1	
	<p><b><u>TOPS, SHELVES, MIRRORS, ETC.</u></b></p> <p>Mirrors to comply with SABS 1236 Class A.</p> <p><b><u>6mm Silvered float glass copper backed mirrors with bevelled edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete and foam backing strip all round:</u></b></p>			
3	Mirror size 450 x 600mm high.	No	10	
4	Mirror size 450 x 900mm high.	No	1	
	<p><b>Carried Forward to Summary of Section No. 2</b></p>			R
	<p>Section No. 2 Building Work Bill No. 17 Glazing</p>			

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 18</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>			
	<p><b><u>PAINTWORK, ETC TO NEW WORK</u></b></p> <p><b><u>FLOATED PLASTER</u></b></p> <p><b><u>Prepare and apply one coat plascon professional gypsum and plaster primer, or equal approved, primer and two coats plascon, or equal approved, professional hygiene low sheen (PHL/THL) paint on:</u></b></p>			
1	Internal plastered walls, columns, recessed bands, etc.	m2	44	
	<p><b><u>PLASTERBOARD</u></b></p> <p><b><u>Prepare and apply one coat plascon, or equal approved, professional gypsum and plaster primer, one coat plascon, or equal approved, wall and all pure acrylic paint thinned 20% and one coat plascon, or equal approved, wall and all interior quality pure acrylic paint on:</u></b></p>			
2	Flush plastered ceilings and cornices.	m2	57	
3	Flush plastered bulkheads.	m2	10	
	<p><b><u>FIBRE CEMENT</u></b></p>			
	<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 Building Work Bill No. 18 Paintwork</p>		R	



9	<p><u>Clean down with plascon lacquer thinners, or equal approved thinners, prepare and apply one coat plascon woodcare pretreatment or equal approved primer and two coats plascon woodcare interior water based wood varnish, or equal approved varnish on:</u></p> <p>Skirtings, handrails, etc. in narrow girths.</p>	m	46	
10	<p><u>Sand down with 150 grit sandpaper, fill holes with plascon polyfilla mendell 90, or equal approved polyfilla and sand again to a smooth finish, wash with plascon lacquer thinner, or equal approved thinner and apply one coat plascon woodcare knot seal, or equal approved seal and one coat plascon woodcare pretreatment, or equal approved pretreatment and then prepare and apply one coat plascon wood primer, or equal approved primer and two coats plascon velveglo satin, or equal approved eggshell enamel paint on:</u></p> <p>General surfaces of doors.</p>	m2	27	
11	<p><u>Sand down with 150 - 220 grit sandpaper, fill holes with plascon polyfilla mendell 90, or equal approved polyfilla and sand again to a smooth finish, wash with plascon lacquer thinner, or equal approved thinner and apply one coat plascon woodcare knot seal, or equal approved sealer and then prepare and apply one coat plascon wood primer, or equal approved primer and two coats plascon waterbased velveglo, or equal approved enamel waterbased paint on:</u></p> <p>General surfaces of doors.</p>	m2	20	
<b><u>PAINTWORK TO PREVIOUSLY PAINTED WORK</u></b>				
<b><u>ON FLOATED PLASTER</u></b>				
<b>Carried to Collection</b>				
<p>Section No. 2 Building Work Bill No. 18 Paintwork</p>				R

12	<p><u>Clean down, prepare and apply one coat plascon professional gypsum and plaster primer, or equal approved primer on repaired areas primer and two coats plascon, or equal approved, professional hygiene low sheen (PHL/THL) paint on:</u></p> <p>On internal plastered walls, columns, recessed bands, etc</p>	m2	712	
13	<p><u>Clean down, prepare and apply one coat plascon professional gypsum and plaster primer (pp700), or equal approved primer, one coat terraco ez skim (ter 1200), or equal approved skimming compound and two coats plascon velvagle satin, or equal approved semi-gloss satin sheen paint on:</u></p> <p>On internal plastered walls, columns, recessed bands, etc</p>	m2	46	
<b><u>PLASTERBOARD</u></b>				
14	<p><u>Clean down, prepare and apply two coats "Plascon", or equal approved, professional hygiene low sheen (PHL/THL) paint on:</u></p> <p>Flush plastered ceilings and cornices.</p>	m2	5	
15	Internal partitions.	m2	20	
<b><u>ON METAL</u></b>				
16	<p><u>Wash down with plascon metalcare aquasolv degreaser, or equal approved, rinse with potable water, clean with sugar soap, sand to ISO 8501-01 :1988-St 3 to remove rust, apply one coat plascon plascoprime 170 zinc phosphate, or equal approved epoxy primer to repaired areas and two coats plascon velvaglo, or equal approved waterbased paint on:</u></p> <p>On door frames</p>	m2	13	
<b>Carried to Collection</b>				
<p>Section No. 2 Building Work Bill No. 18 Paintwork</p>				R

	<p><u>Wash down with plascon metalcare aquasolv degreaser, or equal approved, rinse with potable water, abrasive blast clean, apply one coat plascon plascoprime 170 zinc phosphate, or equal approved epoxy primer and two coats plascon wall &amp; all, or equal approved paint on:</u></p>			
17	Window frames.	m2	80	
	<p><u>Wash down with plascon metalcare aquasolv degreaser, or equal approved, sand to ISO 8501-01 :1988-St 3, rinse with potable water, abrasive blast clean, apply one coat plascon plascoprime 170 zinc phosphate, or equal approved epoxy primer and two coats plascon wall &amp; all, or equal approved paint on:</u></p>			
18	Window frames.	m2	20	
	<p><b><u>WOOD</u></b></p> <p><u>Clean down, sand, wash thoroughly with plascon lacquer thinners, or equal approved, treat with plascon wood care knot seal, or equal approved, fill holes with polyfilla mendell 90, or equal approved, wash with sugar soap, sand down with 120 - 220 grit sandpaper, prepare and apply one coat plascon wood primer, or equal approved primer on repaired areas and two coats plascon velvaglo, or equal approved, waterbased paint on:</u></p>			
19	General surfaces of doors.	m2	32	
<p>Section No. 2 Building Work Bill No. 18 Paintwork</p>	<p>Carried to Collection</p>			<p>R</p>

<p>Section No. 2 Building Work Bill No. 18 Paintwork <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 281</p>		<p><b>Amount</b></p>	
	282		-----	
	283		-----	
	284		-----	
	285		-----	
<p><b>Carried Forward to Summary of Section No. 2</b></p>				
<p>Section No. 2 Building Work Bill No. 18 Paintwork</p>		R		



Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>COVERED WALKWAYS</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>			
	<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Nature of ground</u></b></p> <p>The Tenderer must acquaint himself with the nature of the material to be excavated.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of all excavated material including all rock, etc. shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p> <p><b><u>Subterranean water</u></b></p> <p>No information regarding subterranean water is available. The Tenderer must acquaint himself of the presence and depth of subterranean water and allow therefor in his price.</p> <p><b><u>Excavations</u></b></p> <p>All trench and hole excavations will be carried out below platforms formed by the open face excavation measured under "external works".</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 3 External Work Bill No. 1 Covered Walkways</p>		R	

<p><b><u>Earthworks</u></b></p> <p>For Supplementary Preambles refer to the "Earthworks" bill.</p>			
<p><b><u>TEMPORARY BARRIERS, SCREENS, ETC.</u></b></p> <p><b><u>Temporary barriers, screens, etc., including removal on completion:</u></b></p> <p>1 Gyproc, or equal approved, fixed drywall partitioning system 2400mm high on concrete floors with an overall thickness of 89mm comprising internal framing formed of 64mm donn ultrasteel, or equal approved, galvanised steel studs fixed at 600mm centres to galvanised steel track or female aluminium head section and galvanised steel floor tracks including where necessary any additional galvanised steel studding to form door openings, glazing and other apertures, angles, corners and termination ends. Internal steel framing to be covered on one side with and including 12.5mm thick gyproc rhinoboard, or equal approved, in single lengths to suit height, butt jointed and secured to steel studding with 25mm drywall screws at 220mm centres, installed as per manufacturer's instructions.</p> <p>2 Extra over partitioning for natural anodised aluminium door frame for door size 813 x 2032mm high with one pair of 100mm aluminium hinges including additional studding, trimming, etc.</p>	<p>m</p> <p>No</p>	<p>146</p> <p>6</p>	
<p><b><u>DEMOLITIONS, ETC.</u></b></p> <p><b><u>Demolish and remove:</u></b></p> <p>3 Rectangular shaped carport structure size overall 12.3m x 6.3m on plan and approximately 3m high at eaves, comprising of structural steel columns, beams, bracing, purlins and a metal roof covering including removing bases.</p> <p>4 Hack up and remove existing average 150mm thick reinforced concrete surface beds including carting away all material to a dumping site to be located by the contractor.</p>	<p>No</p> <p>m2</p>	<p>1</p> <p>363</p>	
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 3 External Work Bill No. 1 Covered Walkways</p>			<p style="text-align: center;">R</p>

5	Hack up and remove existing walkways, comprising of average 150mm thick concrete surface beds, steel structure, metal roof covering, retaining walls, foundations, etc. including carting away all material to a dumping site to be located by the contractor.	m2	1,608		
6	Take up and remove existing 80mm thick concrete pavers to walkways and cartaway to a dumping site located by the contractor.	m2	1,657		
7	Break down and remove existing reinforced concrete steps and ramps including carting away all material to a dumping site to be located by the Contractor.	m3	10		
<b><u>Carefully take up and remove:</u></b>					
8	Existing 80mm thick concrete and clay pavers and set aside for re-use within a 300m radius.	m2	200		
<b><u>Take out/off and remove:</u></b>					
9	Take up and remove existing industrial steel balustrade including removing bases, backfilling and cart away all material to a dumping site to be located by the contractor.	m	20		
10	Take off and remove existing steel diamond mesh fence, posts and bases, 2100mm high including carting away all material to a dumping site to be located by the contractor.	m	200		
11	Take out and remove tree with trunk not exceeding 1000mm including excavating and removing of roots, filling hole with clean dry earthfilling and compacting to road/sidewalk specification.	No	2		
12	Take out and remove tree with trunk exceeding 1000mm but not exceeding 1500mm girth including excavating and removing of roots, filling hole with clean dry earthfilling and compacting to road/sidewalk specification.	No	15		
13	Take out and remove tree stump with trunk exceeding 3000mm but not exceeding 4500mm girth including excavating and removing of roots, filling hole with clean dry earthfilling and compacting to road/sidewalk specification.	No	2		
<b>Carried to Collection</b>					
Section No. 3 External Work Bill No. 1 Covered Walkways				R	

<b><u>SITE CLEARANCE, ETC.</u></b>					
<b><u>Site clearance:</u></b>					
14	Allow for digging up and removing all rubbish, debris, vegetation etc., hedges, shrubs and trees not exceeding 200mm girth measured 1m above ground level, including carting away all material to a dumping site to be located by the contractor.	m2	3,285		
15	Strip average 200mm thick layer of topsoil and cartaway to stockpiles on site.	m2	3,285		
<b><u>BULK EXCAVATION, FILLING, ETC.</u></b>					
<b><u>Excavation in earth:</u></b>					
16	Open face excavation in earth and soft rock over site to reduce levels and cart away to a dumping site to be located by the contractor.	m3	517		
17	Extra over open face excavations in earth for excavations in intermediate rock including carting away to a dumping site to be located by the Contractor.	m3	52		
18	Extra over open face excavations in earth for excavations in hard rock including carting away to a dumping site to be located by the Contractor.	m3	258		
<b><u>Compaction of in-situ surfaces:</u></b>					
19	Rip and recompact ground surface, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% modified AASHTO density.	m2	3,443		
<b><u>Base Course:</u></b>					
20	Selected imported G7 (commercial sources) natural gravel in 150mm layers and spread, level, water and compact to 95% modified AASHTO density.	m3	517		
<b><u>DENSITY TESTS</u></b>					
<b>Carried to Collection</b>					
Section No. 3 External Work Bill No. 1 Covered Walkways					R

	<b><u>Prescribed density tests on filling:</u></b>				
21	Modified AASHTO density tests.	No	21		
	<b><u>EXCAVATION, FILLING, ETC. OTHER THAN BULK</u></b>				
	<b><u>Excavation in compacted filling not exceeding 2m deep:</u></b>				
22	Trenches.	m3	898		
23	Holes.	m3	178		
	<b><u>Extra over excavations in earth for excavation in:</u></b>				
24	Soft rock.	m3	108		
25	Hard rock.	m3	538		
	<b><u>Risk of collapse to:</u></b>				
26	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	3,373		
	<b><u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u></b>				
27	To bottoms and sides of trenches, etc.	m2	7,812		
	<b><u>Extra over all excavations for carting away:</u></b>				
28	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	643		
	<b><u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site in layers of 150mm thick compacted to 93% Mod AASHTO density:</u></b>				
29	Backfilling to trenches, holes, etc	m3	433		
	<b><u>Soilcrete:</u></b>				
30	Extra over earth filling for soilcrete.	m3	433		
	<b>Carried to Collection</b>				
	Section No. 3 External Work Bill No. 1 Covered Walkways				R

	<b><u>Selected imported G7 (commercial sources) natural gravel in 150mm layers and spread, level, water and compact to 95% modified AASHTO density:</u></b>				
31	Under floors, pavings, etc.	m3	375		
	<b><u>Keeping Excavations Free of Water</u></b>				
32	Keeping excavations free of water other than subterranean water.		Item		
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
	<b><u>15 MPa/19mm Unreinforced concrete in:</u></b>				
33	Surface blinding under footings and bases.	m3	36		
	<b><u>25 MPa/19mm Reinforced concrete in:</u></b>				
34	Strip footings.	m3	150		
35	Bases.	m3	72		
36	Surface beds.	m3	152		
	<b><u>Test Blocks</u></b>				
37	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	No	23		
	<b><u>Finishing top surfaces of concrete smooth with a wood float:</u></b>				
38	Surface beds, slabs, etc.	m2	1,786		
	<b><u>25MPa high strength non-shrink grout:</u></b>				
	Non-shrink grout shall be 1:2 cement and sand mixture, mixed dry until uniform in colour before adding water.				
39	Bedding approximately 35mm thick under 150 x 150mm base plate including chamfered edges all round.	No	20		
	<b>Carried to Collection</b>				
	Section No. 3 External Work Bill No. 1 Covered Walkways				R

	<b><u>Holding down bolts:</u></b>				
40	Provide template for and embed set of four 20mm diameter x 300mm long steel holding down bolts (bolts elsewhere) into top of stub columns in exact position.	No	20		
	<b><u>Smooth formwork (degree of accuracy II) to sides of:</u></b>				
41	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	1,460		
	<b><u>Vertical joggle construction joints through concrete including thick cement slurry to one face:</u></b>				
42	Surface beds not exceeding 100mm thick.	m	368		
	<b><u>Saw cut joints:</u></b>				
43	40 x 3mm Saw cut joints in two operations in top of concrete.	m	368		
	<b><u>Mild steel rod reinforcement to structural concrete work:</u></b>				
44	Various size bars.	t	4.800		
	<b><u>High tensile steel rod reinforcement to structural concrete work:</u></b>				
45	Various size bars.	t	19.200		
	<b><u>Fabric reinforcement with minimum 300mm wide overlaps:</u></b>				
46	Type 193 reinforcement in concrete surface beds, slabs, etc.	m2	1,786		
	<b><u>MASONRY</u></b>				
	<b><u>Loadbearing brickwork of extra hard burnt clay NFX bricks in 3:1 cement mortar:</u></b>				
47	One brick walls in foundations.	m2	1,752		
	<b>Carried to Collection</b>				
	Section No. 3 External Work Bill No. 1 Covered Walkways				R

48	<p><b><u>Loadbearing brickwork of extra hard burnt clay NFX bricks in 3:1 cement mortar:</u></b></p> <p>One brick retaining walls.</p>	m2	226	
49	<p><b><u>Brickwork reinforcement:</u></b></p> <p>150mm Wide reinforcement built in horizontally.</p> <p><b><u>222 x 106 x 73mm Thick corobrik imperial FBX, or equal approved, clay facebrick in stretcher bond pattern pointed with raked smoothed and square horizontal and vertical joints, bedded and jointed in Class II mortar (colour and type to Architect's approval):</u></b></p>	m	5,754	
50	<p>Extra over brickwork for face brickwork.</p> <p><b><u>PAVING</u></b></p> <p>Approved brand of anti-termite soil poison &amp; weedkiller is to be applied under paving by a Registered Company and guaranteed for ten years (deemed to be included in the rates below).</p> <p>Paving shall be laid in accordance with SABS 1200MJ, SABS 1058 and the Concrete Masonry Association's specifications.</p> <p>Paving shall be laid on 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere) (deemed to be included in the rates below).</p> <p>Clean plaster sand shall be swept into joints between roadstones (deemed to be included in the rates below).</p> <p><b><u>Clean down and lay existing concrete pavers from stockpiles, bedded on and including 25mm thick bed of river sand with 1:6 cement grout swept &amp; watered into joints between roadstones:</u></b></p>	m2	226	
51	<p>Paving to roads, parking areas, pavements, etc. in patchwork and small quantities to falls <b>including any consequent cutting</b> and tying into existing paving.</p>	m2	200	
<b>Carried to Collection</b>				R
<p>Section No. 3 External Work Bill No. 1 Covered Walkways</p>				

	<p><b><u>200 x 100 x 50mm Thick technicrete bondbrick, or equal approved, precast concrete blocks laid in stretcher bond pattern bedded on and including 25mm thick bed of river sand with 1:6 cement grout swept &amp; watered into joints between roadstones:</u></b></p>			
52	<p>Paving to roads, parking areas, pavements, etc. to falls including any consequent cutting (circular cutting elsewhere).</p>	m2	1,657	
53	<p>Soldier course margins 200mm wide bedded in 15mpa concrete including all necessary excavation, backfilling, carting away, etc.</p>	m	950	
	<p><b><u>75 x 150mm Rectangular concrete garden kerb (SABS 927 Fig. 12) jointed and pointed in 5:1 cement mortar and bedded in 15mpa concrete including all necessary excavation, backfilling, carting away, concrete haunching, etc.:</u></b></p>			
54	<p>Laid straight.</p>	m	633	
<b><u>WATERPROOFING</u></b>				
	<p><b><u>One layer of 250 micron consol plastics brikgrip DPC, or equal approved, embossed damp proof course:</u></b></p>			
55	<p>In walls, cavity walls, etc.</p>	m2	3,504	
	<p><b><u>One layer of 250 micron consol plastics gunplas USB green, or equal approved, waterproof sheeting sealed at laps with gunplas pressure sensitive tape or similar approved:</u></b></p>			
56	<p>Under surface beds.</p>	m2	1,786	
	<p><b><u>Grey polysulphide sealant, including backing cord, bond breaker, primer, etc.</u></b></p>			
57	<p>Clean out 3mm thick saw cut joint, apply approved primer, insert backing cord and fill with type 2 gungrade polysulphide base joint sealing compound.</p>	m	368	
<b>Carried to Collection</b>				
<p>Section No. 3 External Work Bill No. 1 Covered Walkways</p>				R

58	Rake out 10mm thick expansion joint filler to a depth of 10mm, apply approved primer, insert packing strip and fill with type 2 gungrade polysulphide base joint sealing compound.	m	368		
<b><u>STRUCTURAL STEELWORK</u></b>					
<b><u>Supplementary Preambles</u></b>					
Refer to the Structural Steel trade for supplementary preambles.					
<b><u>Welded base plates with bearer and connection plates bolted to masonry walls:</u></b>					
59	250 x 250 x 10mm Thick base plate including connectors, etc.	No	125		
<b><u>Welded columns in single lengths with flat section base, top, bearer and connection plates bolted to concrete base:</u></b>					
60	76 x 76 x 4mm Square hollow section columns including base plates, connectors, etc.	t	20.07		
61	100mm Diameter x 4mm thick circular hollow section columns including base plates, connectors, etc.	t	0.40		
<b><u>Welded beams and rafters in single lengths with flat section base, top, bearer and connection plates bolted to concrete base:</u></b>					
62	76 x 76 x 4mm Square hollow section rafters including plates, cleats, connectors, bolts, etc.	t	7.89		
63	76 x 76 x 4mm Square hollow section beams including plates, cleats, connectors, bolts, etc.	t	15.11		
<b><u>Purlins, girts, bracing, sag bars, etc. bolted to steel:</u></b>					
64	100 x 50 x 20 x 2mm Thick cold formed lipped channel section purlin including plates, cleats, connectors, bolts, etc.	t	8.89		
<b>Carried to Collection</b>					
Section No. 3 External Work Bill No. 1 Covered Walkways					R

65	100 x 50 x 20 x 2mm Thick lipped channel section purlins to cladding including plates, cleats, connectors, bolts, etc.	t	17.78		
66	40 x 40 x 3mm Thick angle section bracing including plates, cleats, connectors, bolts, etc.	t	0.76		
	<b><u>Bolts, etc.</u></b>				
67	M8 x 50mm long galvanised holding down bolts including anchor plates, nuts, lock nuts, levelling nuts and washers with one end welded to steel plate (plate elsewhere).	No	500		
68	M16 x 300mm long galvanised holding down bolts including anchor plates, nuts, lock nuts, levelling nuts and washers with one end welded to steel plate (plate elsewhere).	No	2,336		
	<b><u>PROFILED METAL SHEETING AND RAINWATER DISPOSAL</u></b>				
	<b><u>0.58mm Thick global roofing solutions, or equal approved, IBR 890 chromadek z275 spelter isq550 top coat (non-standard colour to Architect's approval) and backing coat (non-standard colour to Architect's approval) galvanised steel sheeting, fixed to steel purlins including clips, self drilling wafer head screws, drill point fasteners, etc. all fixed in strict accordance with the manufacturer's instructions:</u></b>				
69	Roof sheeting laid to steel trusses with pitch not exceeding 50 degrees in single lengths (measured nett).	m2	1,825		
70	Vertical sheeting fixed to steel members (elsewhere measured) in single lengths (measured nett).	m2	1,396		
	<b><u>0.8mm Thick flashings, etc. to match sheet metal roof sheeting:</u></b>				
71	550mm Barge flashing, 3 times bent.	m	64		
72	375mm Girth head wall flashing, 2 times bent.	m	370		
73	462mm Girth hip flashing, once bent.	m	10		
	<b>Carried to Collection</b>				
	Section No. 3 External Work Bill No. 1 Covered Walkways			R	

74	550mm Girth apex flashing, 3 times bent.	m	1,008		
75	550mm Girth ridge capping.	m	30		
76	500mm Wide rectangular valley gutter, seven times bent.	m	14		
77	Purpose made flashing size overall 2500mm long x maximum 1000mm wide tapering down to maximum 250mm wide (refer to Architect's drawing HDG-042-002).	No	15		
	<b><u>0,8mm Thick mr gutter ogee profile, or equal approved, rectangular pre-coated aluminium seamless gutters and downpipes, including matching rivet-fixed mitres and end caps, sealed internally with a silicone mastic, including brackets at 600mm centres, downpipe cleats, etc.:</u></b>				
78	150 x 100mm Profile eave gutter.	m	75		
79	Extra for stopped end.	No	10		
80	Extra for joint and outlet to 100 x 75mm downpipe.	No	9		
81	100 x 75 x 0.6mm Thick downpipe fixed to steel columns.	m	27		
82	Extra for eaves offset.	No	9		
83	Extra for shoe.	No	9		
	<b><u>1,2mm Thick natralite, or equal approved, polycarbonate sheeting in an IBR 686 profile, colour to Architec's approval, fixed to steel members (elsewhere measured) by means of steel fasteners including connectors, end caps, edging profiles, side profiles, frame profiles, etc. all fixed in strict accordance with the manufacturers instructions:</u></b>				
	<b>Carried to Collection</b>				
	Section No. 3 External Work Bill No. 1 Covered Walkways			R	



88	<p><u>Wash down with plascon metalcare aquasolv degreaser (qr1), or equal approved, rinse with potable water, abrasive blast clean, apply one coat plascon plascoprime 170 zinc phosphate (uc170), or equal approved, epoxy primer to a minimum dry film thickness of 100 microns and apply two top coats of plascon wall &amp; all (waa), or equal approved, paint to a minimum dry film thickness of 40 microns:</u></p> <p>Structural steel members.</p>	t	70.49	
89	<p><u>Prepare and apply one coat alkali resistant primer and two coats exterior quality acrylic textured coating paint on:</u></p> <p>External plastered walls, columns, recessed bands, etc.</p>	m2	124	
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 3 External Work Bill No. 1 Covered Walkways</p>				<p style="text-align: center;">R</p>

<p>Section No. 3 External Work Bill No. 1 Covered Walkways <b><u>COLLECTION</u></b></p>			
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 288 289 290 291 292 293 294 295 296 297 298 299 300 301</p>		<p><b>Amount</b></p>
<p><b>Carried Forward to Summary of Section No. 3</b> Section No. 3 External Work Bill No. 1 Covered Walkways</p>		<p>R</p>	

Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
		<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>STORMWATER RETICULATION</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of all excavated material including all rock, etc. shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p> <p><b><u>Location of existing services:</u></b></p> <p>Location &amp; protection of all municipal or other services identified or unknown, for the duration of the contract, are to be included in the contractors tendered rates.</p>				
		<p><b><u>DEMOLITIONS</u></b></p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 3 External Work Bill No. 2 Stormwater Reticulation</p>				
					R	

1		<b><u>Demolish and remove:</u></b>  Hack up and remove existing average 150mm thick surface beds including carting away all material to a dumping site to be located by the contractor.	m2	23		
	<u>SANS 1200DB</u>	<b><u>EARTHWORKS (PIPE TRENCHES)</u></b>				
	8.3.1	<b><u>Site clearance and (if specified) removal of topsoil</u></b>				
	8.3.1a	<u>Clear vegetation and trees of girth up to 1m, for length of pipe route:</u>				
2	8.3.2a	1000mm V-drain concrete channel route.	m	58		
3	8.3.1b	Clear trees and designated obstacles.	No	1		
4	8.3.1c	Strip average 150mm thick layer of topsoil and cartaway to stockpiles on site and maintain.	m2	29		
	8.3.6.	<b><u>Finishing</u></b>				
	8.3.6.1	<u>Reinstate surfaces complete with all courses:</u>				
5	8.3.6.1d	150mm Thick layer of topsoil from stockpiles on site.	m2	29		
	<u>SANS 1200LE</u>	<b><u>STORMWATER DRAINAGE</u></b>				
	8.2.8b	<b><u>Grid inlets, kerb inlets, etc.:</u></b>				
		<b>Carried to Collection</b>				
		Section No. 3 External Work Bill No. 2 Stormwater Reticulation				R

	8.2.8b	<p><u>Excavate in compacted earth for and build grid inlet catchpit size 450 x 450mm deep internally to invert with one brick wall sides in engineering bricks on and including 25Mpa insitu concrete base 100mm thick, rendered smooth internally in 1:5 cement mortar, benching up bottom in 25Mpa concrete finished off smooth and 150mm thick 25Mpa concrete cover slab to SABS 1504 size 910 x 910mm rebated and holed for and including square dished stormwater grating and frame to SABS 558 including leaving or forming opening for 1No. 450mm diameter outlet including all formwork, reinforcing, backfilling around in 300mm wide selected fill in 150mm layers compacted to 90% Mod AASHTO density, compaction, filling, etc. (As per attached Engineer's drawing E086-UTH-C-09).</u></p>				
6	8.2.8a	<p>Grid inlet not exceeding 1000mm deep.</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 3 External Work Bill No. 2 Stormwater Reticulation</p>	No	3		R

7	8.2.8b	<b><u>Stormwater outlet structures</u></b>				
	8.2.8b	<p>Excavate in compacted earth for and build triangular shaped stormwater outlet structure size 1050mm at head, 2925mm at base and 2175mm along sides formed of 250mm thick 20mpa concrete base including 2No. x 1750mm high wingwalls formed of engineering bricks in a combination of 345mm thick up to 1m high and 220mm thick thereafter tapering to 300mm high at lower end and 150mm thick x 450mm deep 20mpa concrete footing along base end including ref 617 mesh reinforcing in slab and footings, cast on top of 25mm thick polyethylene sheet, the top of the base inlaid with 3No. figure 3 kerb energy dissipators protruding 200mm above the surface of the concrete including all formwork, reinforcing, backfilling, compacting, etc.</p>	No	1		
8		<p><b><u>STORMWATER CHANNELS, ETC.</u></b></p> <p>V-shaped channel 1000mm wide x 125mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, laid to falls in panels not exceeding 2m long, with 10mm thick polystyrene movement joints with exposed edges raked out for a depth of 10mm and filled with dow corning 888, or equal approved, joint sealant at 10m intervals, including all necessary excavations, formwork, etc. (as per Engineer's drawing E086-UTH-C-09).</p>	m	58		
9		Extra for fair open end.	No	1		
10		Extra for fair stopped end.	No	1		
11		Extra for angle intersection.	No	5		
		<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 3 External Work Bill No. 2 Stormwater Reticulation</p>			R	



Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
		<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>WATER RETICULATION</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of all excavated material including all rock, etc. shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p> <p><b><u>Location of existing services:</u></b></p> <p>Location &amp; protection of all municipal or other services identified or unknown, for the duration of the contract, are to be included in the contractors tendered rates.</p>				
		<p><b><u>DEMOLITIONS</u></b></p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 3 External Work Bill No. 3 Water Reticulation</p>				
					R	

1		<p><b><u>Demolish and remove:</u></b></p> <p>Take down and remove existing GMS, stainless steel and HDPE pipes and valves of various sizes not exceeding 300mm diameter from and including existing steel structure suspended on 5m high steel columns at approximately 6m centres, including all necessary fittings, investigations, temporary sealing off, diverting, removing of foundation bases, excavation, backfilling, making good on completion, etc.</p>	m	146		
2		<p>Take down and remove existing GMS, stainless steel and HDPE pipes and valves of various sizes not exceeding 300mm diameter from and including existing steel structure suspended on 2.5m high steel columns at approximately 6m centres, including all necessary fittings, investigations, temporary sealing off, diverting, removing of foundation bases, excavation, backfilling, making good on completion, etc.</p>	m	218		
	SANS 1200L	<p><b><u>MEDIUM-PRESSURE PIPELINES</u></b></p>				
3	8.2.1	<p><b><u>Supply, lay and joint HDPE (PE63, PN12.5, SDR9) butt-fused water pipes complete with couplings fixed above ground with and including brackets, to structural steel members of covered walkways (structural steel elsewhere), not exceeding 3m above bearing level:</u></b></p> <p>75mm Diameter pipe.</p>	m	127		
		<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 3 External Work Bill No. 3 Water Reticulation</p>			R	

	8.2.1	<u>Supply, lay and joint HDPE (PE63, PN12.5, SDR9) butt-fused water pipes complete with couplings fixed above ground with and including brackets, to steel pipe rack (rack elsewhere), not exceeding 5m above bearing level:</u>					
4	8.2.1	75mm Diameter pipe.	m	124			
	8.2.1	<u>Supply, lay and joint HDPE (PE63, PN12.5, SDR9) butt-fused water pipes complete with couplings fixed above ground with and including brackets, to brick walls (walls elsewhere), not exceeding 5m above bearing level:</u>					
5	8.2.1	75mm Diameter pipe.	m	30			
	8.2.1	<u>Supply, lay and joint medium class galvanised mild steel screwed and socketed piping complete with couplings fixed above ground with and including brackets, to structural steel members of covered walkways (structural steel elsewhere), not exceeding 3m above bearing level:</u>					
6	8.2.1	50mm Diameter pipe.	m	20			
7	8.2.1	80mm Diameter pipe.	m	251			
8	8.2.1	150mm Diameter pipe.	m	10			
	8.2.1	<u>Supply, lay and joint medium class galvanised mild steel screwed and socketed piping complete with couplings fixed above ground with and including brackets, to steel pipe rack (rack elsewhere), not exceeding 3m above bearing level:</u>					
9	8.2.1	80mm Diameter pipe.	m	45			
		<b>Carried to Collection</b>					
		Section No. 3 External Work Bill No. 3 Water Reticulation				R	

	8.2.1	<b><u>Supply, lay and joint medium class galvanised mild steel screwed and socketed piping complete with couplings fixed above ground with and including brackets, to brick walls (walls elsewhere), not exceeding 3m above bearing level:</u></b>					
10	8.2.1	80mm Diameter pipe.	m	30			
	8.2.3	<b><u>Extra over 8.2.1 for the Supplying, Laying, Jointing, and Bedding of Valves</u></b>					
	8.2.3	<u>Non-rising spindle flanged (SANS1123, 1600/3) cast iron CTOP gate valves (PN16):</u>					
11	8.2.3	75mm Diameter.	No	5			
	8.2.3	<u>Brass fullway wheel valves:</u>					
12	8.2.3	75mm Diameter.	No	10			
	8.2.3	<u>Scour valves:</u>					
13	8.2.3	75mm Diameter.	No	3			
	8.2.3	<u>Isolation valves:</u>					
14	8.2.3	75mm Diameter.	No	7			
	8.2.3	<u>Non-return valves:</u>					
15	8.2.3	75mm Diameter.	No	8			
	8.2.2	<b><u>Extra over 8.2.1 for the Supplying, Laying, Jointing and Bedding of Fittings and Specials Complete with Couplings:</u></b>					
	8.2.2	<u>45 Degree cast iron (Class 16) spigot socket bends:</u>					
16	8.2.2	75mm Diameter.	No	3			
		<b>Carried to Collection</b>					
		Section No. 3 External Work Bill No. 3 Water Reticulation				R	

	8.2.2	<u>90 Degree cast iron (Class 16) spigot socket bends:</u>					
17	8.2.2	75mm Diameter.	No	10			
	8.2.2	<u>Cast iron (Class 16) spigot socket tees:</u>					
18	8.2.2	75mm x 75mm Diameter.	No	12			
	8.2.2	<u>Cast iron (Class 16) spigot socket reducing tees:</u>					
19	8.2.2	75mm x 50mm Diameter.	No	15			
	8.2.2	<u>Spigot and socketed flanged adaptors for connecting HDPE pipes to flanged (SANS1123 1600/3) steel pipes or fittings:</u>					
20	8.2.2	75mm Diameter straight-end pipe.	No	10			
	8.2.2	<b><u>Extra over galvanised steel pipes with screwed and socketed joints for fittings and specials complete:</u></b>					
	8.2.2	<u>Bend:</u>					
21	8.2.2	80mm Diameter.	No	30			
	8.2.2	<u>Junction:</u>					
22	8.2.2	80mm Diameter.	No	25			
	8.2.2	<u>Reducing junction:</u>					
23	8.2.2	80mm Diameter.	No	18			
	8.2.2	<u>Access bend:</u>					
24	8.2.2	80mm Diameter.	No	35			
	8.2.2	<u>Access junction:</u>					
25	8.2.2	80mm Diameter.	No	13			
		<b>Carried to Collection</b>					
		Section No. 3 External Work Bill No. 3 Water Reticulation				R	

	8.2.11	<b><u>Anchor/Thrust Blocks and Pedestals</u></b>					
26	8.2.11b	15Mpa/19mm Concrete in thrust blocks.	m3	2			
27	8.2.11b	15Mpa/19mm Concrete in anchor blocks.	m3	1			
28	8.2.11b	Mild tensile steel.	t	0.05			
29	8.2.11b	High tensile steel.	t	0.2			
	8.2.13	<b><u>Valve and Hydrant Chambers etc.</u></b>					
30	8.2.13	Valve chamber size 1660 x 1660 x 2000mm deep internally with 860 x 860 x 100mm thick 25Mpa concrete base (lower base) and 2500 x 2500 x 250mm thick 25mpa concrete base (upper base) with mesh ref. 888 with opening for and including 440 x 440 x 550mm high 19.2mm aggregate and including 220mm brick walls in engineering bricks 300mm high to lower chamber and 320mm thick plastered cavity brick walls in engineering bricks with 25mpa concrete infill and mesh ref. 395 with facebrick finish above ground level including Type 2A manhole lid and frame to SABS 558-65 set in 100mm thick 25Mpa concrete cover slab, chamber to be waterproofed in a liquid rubber sealant including all necessary excavation, backfilling, formwork, access steps, etc. (as per attached Engineer's drawing E086-UTH-C-10).	No	2			
		<b>Carried to Collection</b>					
		Section No. 3 External Work Bill No. 3 Water Reticulation				R	

31	8.2.13	<p>Valve chamber size 1600 x 1660 x 2000mm deep internally with 2300 x 2300 x 250mm thick 25Mpa concrete base with including 220mm thick plastered reinforced concrete walls with mesh ref. 395 and Type 2A manhole lid and frame to SABS 558-65 set in 100mm thick 25Mpa concrete cover slab, chamber to be waterproofed in a liquid rubber sealant including all necessary excavation, backfilling, formwork, access steps, etc. (as per attached Engineer's drawing E086-UTH-C-10).</p>	No	1		
32	8.2.13	<p>Valve chamber size 250 x 250 x 600mm deep internally with 50mm concrete base (25Mpa) with 500 x 500 x 75mm concrete block including 220mm brick walls in engineering bricks and Type 5 cast iron frame and lid to SABS 558-65 set in 230mm thick concrete cover slab (25Mpa) including all necessary excavation, backfilling, formwork, etc.</p>	No	5		
		<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 3 External Work Bill No. 3 Water Reticulation</p>			R	



Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
		<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 4</u></b></p> <p><b><u>SEWER RETICULATION</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of all excavated material including all rock, etc. shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p> <p><b><u>Location of existing services:</u></b></p> <p>Location &amp; protection of all municipal or other services identified or unknown, for the duration of the contract, are to be included in the contractors tendered rates.</p>				
		<p><b><u>DEMOLITIONS</u></b></p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 3 External Work Bill No. 4 Sewer Reticulation</p>				
					R	

1		<b><u>Demolish and remove:</u></b>  Hack up and remove existing average 150mm thick surface beds including carting away all material to a dumping site to be located by the contractor.	m2	50		
	SANS 1200DB	<b><u>EARTHWORKS (PIPE TRENCHES)</u></b>				
	8.3.1	<b><u>Site clearance and (if specified) removal of topsoil:</u></b>				
2	8.3.1a	Clear vegetation and trees of girth up to 1m, for length of 110mm diameter pipe route.	m	12		
3	8.3.1a	Clear vegetation and trees of girth up to 1m, for length of 160mm diameter pipe route.	m	114		
4	8.3.1b	Clear trees and designated obstacles.	No	2		
5	8.3.1c	Strip average 150mm thick layer of topsoil and cartaway to stockpiles on site and maintain.	m2	63		
	8.3.2	<b><u>Excavation</u></b>				
	8.3.2a	<u>Excavate in all material for trenches including using for backfilling, compacting, shoring, and disposing of surplus material to a dumping site to be located by the Contractor, supplying and operating of dewatering equipment and surface and subsurface water control in all open excavations with excavations not exceeding 1000mm deep.</u>				
6	8.3.2a	110mm Diameter pipe.	m	2		
7	8.3.2a	160mm Diameter pipe.	m	22		
		<b>Carried to Collection</b>				
		Section No. 3 External Work Bill No. 4 Sewer Reticulation			R	

	8.3.2a	<u>Excavate in all material for trenches including using for backfilling, compacting, shoring, dewatering and disposing of surplus material to a dumping site to be located by the Contractor, supplying and operating of dewatering equipment and surface and subsurface water control in all open excavations with excavations exceeding 1000mm and not exceeding 2000mm deep.</u>				
8	8.3.2a	110mm Diameter pipe.	m	9		
9	8.3.2a	160mm Diameter pipe.	m	87		
	8.3.2a	<u>Excavate in all material for trenches including using for backfilling, compacting, shoring, and disposing of surplus material to a dumping site to be located by the Contractor, supplying and operating of dewatering equipment and surface and subsurface water control in all open excavations with excavations exceeding 2000mm and not exceeding 3000mm deep.</u>				
10	8.3.2a	110mm Diameter pipe.	m	6		
11	8.3.2a	160mm Diameter pipe.	m	65		
	8.3.2b	<u>Extra over for:</u>				
12	8.3.2b.1	Intermediate excavation	m3	19		
13	8.3.2b.2	Hard rock excavation.	m3	95		
14	8.3.2c	Excavate unsuitable material from trench bottom and dispose.	m3	10		
	8.3.3	<b><u>Excavation Ancillaries</u></b>				
		<b>Carried to Collection</b>				
		Section No. 3 External Work Bill No. 4 Sewer Reticulation				R

	8.3.3.1	<u>Imported backfill materials:</u>				
15	8.3.3.1a	Selected imported G7 (commercial sources) natural gravel in 150mm layers and spread, level, water and compact to 93% modified AASHTO density.	m3	114		
	8.3.5	<b><u>Existing services that intersect or adjoin a pipe trench.</u></b>				
16	8.3.5a	Existing services that intersect a pipe trench.	No	20		
17	8.3.5b	Existing services that adjoin a pipe trench.	m	60		
	8.3.6.	<b><u>Finishing</u></b>				
	8.3.6.1	<u>Reinstate surfaces complete with all courses</u>				
18	8.3.6.1d	150mm Thick layer of topsoil from stockpiles on site.	m2	95		
	<u>SANS 1200LB</u>	<b><u>BEDDING (PIPES)</u></b>				
	8.2.1	<b><u>Provision of Bedding from Trench Excavation</u></b>				
19	8.2.1a	Selected granular material.	m3	5		
20	8.2.1b	Selected fill material.	m3	3		
	8.2.2	<b><u>Supply and Installation of Bedding by Importation</u></b>				
	8.2.2.3	<u>From commercial source</u>				
21	8.2.2.3b	Selected fill material.	m3	35		
22	8.2.3	Concrete bedding cradle.	m3	11		
	8.2.4	<b><u>Encasing pipes in 20mpa Concrete</u></b>				
23	8.2.4	110mm Diameter pipe.	m3	1		
		<b>Carried to Collection</b>				
		Section No. 3 External Work Bill No. 4 Sewer Reticulation				R

24	8.2.4	160mm Diameter pipe.	m3	9		
25	8.2.6	Reinforcement to encasing.	t	0.59		
	<u>SANS 1200LD</u>	<b><u>SEWERS</u></b>				
	8.2.1	<b><u>Supply, lay, joint, bed and test uPVC (Class 34) solid wall, heavy duty, spigot and socket sewer pipes with rubber ring seal complete with couplings:</u></b>				
26	8.2.1	110mm Diameter pipe.	m	12		
27	8.2.1	150mm Diameter sleeve pipe.	m	92		
28	8.2.1	160mm Diameter pipe.	m	114		
	8.2.2	<b><u>Extra over 8.2.1 for the Supplying, Laying, Jointing and Bedding of Fittings and Specials Complete with Couplings:</u></b>				
	<u>SANS 1200L</u> 8.2.2	<u>45 Degree uPVC (Class 34) bends:</u>				
29	8.2.2	110mm Diameter.	No	1		
30	8.2.2	150mm Diameter.	No	8		
31	8.2.2	160mm Diameter.	No	3		
	8.2.2	<u>45 Degree uPVC (Class 34) access bends:</u>				
32	8.2.2	110mm Diameter.	No	1		
33	8.2.2	160mm Diameter.	No	1		
	8.2.2	<u>uPVC (Class 34) junctions:</u>				
34	8.2.2	110mm Diameter.	No	2		
		<b>Carried to Collection</b>				
		Section No. 3 External Work Bill No. 4 Sewer Reticulation				R

35	8.2.2	<u>uPVC (Class 34) reducers:</u>				
	8.2.2	160mm x 110mm Diameter.	No	1		
	8.2.2	<u>90 Degree uPVC (Class 34) inspection eye:</u>				
36	8.2.2	110mm Diameter.	No	2		
	8.2.2	<u>45 Degree uPVC (Class 34) inspection eye:</u>				
37	8.2.2	110mm Diameter.	No	2		
	8.2.2	<u>45 Degree uPVC (Class 34) inspection eye junction:</u>				
38	8.2.2	110mm Diameter.	No	1		
	<u>SANS 1200LD</u> 8.2.3	<b><u>Manholes</u></b>				
		<b>Carried to Collection</b>			R	
		Section No. 3 External Work Bill No. 4 Sewer Reticulation				

	8.2.3	<u>Excavate in earth for and including circular type precast concrete manhole formed of 1500mm diameter x 150mm thick 20Mpa concrete base with manhole formed of 1750mm diameter (internally) precast concrete rings with joints sealed with bituminous putty with and including 1750mm diameter precast concrete reducer slab 150mm thick and precast concrete spacer rings 560mm diameter (internally), precast concrete cover slab 75mm thick with opening for and including heavy duty road type manhole cover and lockable frame as type 2A set in cement mortar and sealed in tallow with 20Mpa concrete benching in bottom floated smooth with falls and finished on all exposed surfaces with 20mm thick granolithic with angles rounded including all necessary excavation, backfilling, carting away, risk of collapse, shoring, dewatering, concrete blinding, formwork, step irons, etc.:</u>					
39	8.2.3	Manhole not exceeding 1500mm deep.	No		2		
40	8.2.3	Manhole exceeding 1500mm and not exceeding 2000mm deep.	No		2		
41	8.2.3	Manhole exceeding 2000mm and not exceeding 2500mm deep.	No		1		
42	8.2.3	Manhole exceeding 2500mm and not exceeding 3000mm deep.	No		1		
		<b>Carried to Collection</b>					
		Section No. 3 External Work Bill No. 4 Sewer Reticulation				R	

	8.2.3	<u>Excavate and build inspection chamber with one brick sides in extra hard clay bricks in cement mortar on 100mm 25MPa/19mm concrete bottom, rendered internally in cement plaster with 100mm 25MPa/19mm concrete cover slab finished on exposed surfaces in untinted cement paving with angles rounded, with rebated opening for 200 x 200mm cast iron cover and frame. Size 400 x 400mm internally:</u>				
43	8.2.3	Inspection chamber not exceeding 1000mm deep.	No	8		
	8.2.6	<u>Connections:</u>				
44	8.2.11	Connection to existing sewer at existing concrete manhole with 160mm diameter uPVC pipe.	No	1		
		<b>Carried to Collection</b>				
		Section No. 3 External Work Bill No. 4 Sewer Reticulation				R

	Section No. 3 External Work Bill No. 4 Sewer Reticulation <b><u>COLLECTION</u></b>				
	Total Brought Forward from Page No.		<b>Page No</b>	<b>Amount</b>	
			316	-----	
			317	-----	
			318	-----	
			319	-----	
			320	-----	
			321	-----	
			322	-----	
			323	-----	
	<b>Carried Forward to Summary of Section No. 3</b>				
	Section No. 3 External Work Bill No. 4 Sewer Reticulation				R

Bill No	Section No. 3 External Work <b><u>SECTION SUMMARY - External Work</u></b>	Page No		Amount
1	Covered Walkways	302		
2	Stormwater Reticulation	307		
3	Water Reticulation	315		
4	Sewer Reticulation	324		
	<b>Carried to Final Summary</b>		R	
	Section No. 3 External Work			

Item No		Quantity	Rate	Amount	
	<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>PROVISIONAL SUMS</u></b></p> <p><b><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></b></p>				
	<p><b><u>NOTE:</u></b></p> <p>The following provisional sums are net and are for material and equipment supplied and installed complete by firms of specialists selected by the Chief Director or his Representative/Agent.</p> <p>Under no circumstances may any Provisional Sum or P.C. Item be altered.</p> <p>Unless a specific percentage mark up for Attendance is indicated in the rate column, the amounts priced by the Contractor for Attendance against each Provisional Sum shall be deemed to be Lump Sum and shall not be adjusted unless the scope of the sub - contract varies significantly.</p> <p>Provisional Sums contained herein may be omitted or reduced at the Employer's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omissions of any discount, or percentage relating to the provisional sums or P.C. Amounts or any loss of profit related thereto.</p>				
1	<p><b><u>TRAINING</u></b></p> <p>Provide the amount of R350,000.00 Three Hundred and Fifty Thousand for training executed complete.</p>	Item		350,000.00	
	<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 4 Provisional Sums Bill No. 1 Provisional Sums</p>		R		

2	Allow for profit if needed.			%		
3	Allow for general attendance etc.			%		
<b><u>COMMUNITY LIAISON OFFICER SALARY</u></b>						
4	Provide the amount of R120,000.00 One Hundred and Twenty Thousand for CLO salary executed complete.	Item			120,000	00
5	Allow for profit if needed.			%		
6	Allow for general attendance etc.			%		
<b><u>MEDICAL GAS</u></b>						
7	Provide the amount of R700,000.00 Seven Hundred Thousand for medical gas installation complete.	Item			700,000	00
8	Allow for profit if needed.			%		
9	Allow for general attendance etc.			%		
<b><u>ASBESTOS REMOVAL</u></b>						
10	Provide the amount of R4,300,000.00 Four Million Three Hundred Thousand for asbestos removal executed complete.	Item			4,300,000	00
11	Allow for profit if needed.			%		
12	Allow for general attendance etc.			%		
<b><u>ENTERPRISE DEVELOPMENT OF TARGETED ENTERPRISES</u></b>						
13	Provide the amount of R150,000.00 One Hundred and Fifty Thousand for the enterprise development of targeted enterprises executed complete.	Item			150,000	00
14	Allow for profit if needed.			%		
15	Allow for general attendance etc.			%		
<b>Carried to Collection</b>					R	
Section No. 4 Provisional Sums Bill No. 1 Provisional Sums						

<p>Section No. 4 Provisional Sums Bill No. 1 Provisional Sums <b><u>COLLECTION</u></b></p>				
<p>Total Brought Forward from Page No.</p>	<p><b>Page No</b> 326</p>		<p><b>Amount</b></p>	
	<p>327</p>		<p>-----</p>	
			<p>-----</p>	
<p>Section No. 4 Provisional Sums Bill No. 1 Provisional Sums</p>	<p><b>Carried to Final Summary</b></p>	<p>R</p>		

**TSHWARAGANO HOSPITAL**

**CONTRACT No. 2023/05**

**DOMESTIC SUB-CONTRACT FOR THE ELECTRICAL INSTALLATION**

**APPOINTMENT OF A CONTRACTOR TO UPGRADE THE TSHWARAGANO HOSPITAL:**

**ELECTRICAL INSTALLATION**

**PART C2.5: BILLS OF QUANTITIES**

**Section 5 - Bill 1: LV Infrastructure**

	Description	Unit	Qty	Rate	Amount
<b>1.1</b>	<b><u>BILL NO.2: PART 1 - LV CABLING INFRASTRUCTURE</u></b>				
1.1.1	4 core 25mm <sup>2</sup> SWA PVC SWA Cu cable				
	Supply	m	80		
	Install in cable trench	m	80		
	Install in sleeves and on cable tray	m	0		
1.1.2	Cable terminations 4 core 25mm <sup>2</sup> SWA PVC SWA cable	No	2		
1.1.3	Bare Copper Earth Wire - Supply & Install 6mm <sup>2</sup> BCEW	m	80		
1.1.4	Bare Copper Earth Wire Terminations 6mm <sup>2</sup> BCEW	No	2		
1.1.5	Cable markers				
	Supply	No	4		
	Install	No	4		
1.1.6	76mm x 76mm galvanized P8000 wiring trunking , complete with all hangers,covers , etc for a complete installation - Electronic Supply and Install	m	40		
1.1.7	76mm x 76mm galvanized P8000 wiring trunking , complete with all hangers,covers , etc for a complete installation - Electrical Supply and Install	m	40		
1.1.8	Cable Trays - Medium duty galvanized 150mm wide including hangers and supports as per suppliers requirements for a complete installation (Bandit type strapping to be allowed for cables in meter rate of cable tray)				
	Supply	m	100		
	Install	m	100		
1.1.8.1 (A)	150mm wide horizontal bends Supply and Install	Item	10		
1.1.8.2 (B)	150mm wide T-off Supply and Install	Item	1		
1.1.8.3 (C)	150mm wide Internal/External bend Supply and Install	Item	2		
<b>TOTAL FOR BILL NO.1 - PART 1 (Carried Forward to Summary)</b>					

	Description	Unit	Qty	Rate	Amount
	<b>BILL NO.1: PART 2 -MANHOLES AND SLEEVES</b>				
1.2.1	Electrical Infrastructure Sleeves				
(A)	110mmø HDPE Sleeves with 1,5mm <sup>2</sup> galvanized draw wire	m	50		
	Supply	m	50		
	Install	m	50		
(B)	110mmø HDPE Sleeves - 45° Bends	Item	2		
	Supply and Install	Item	2		
(C)	75mmø HDPE Sleeves with 1,5mm <sup>2</sup> galvanized draw wire	m	1		
	Supply	m	1		
	Install	m	1		
(D)	75mmø HDPE Sleeves - 45° Bends	Item	1		
	Supply and Install	Item	1		
(E)	50mmø HDPE Sleeves with 1,5mm <sup>2</sup> galvanized draw wire	m	50		
	Supply	m	50		
	Install	m	50		
1.2.2	Telephone and Data Infrastructure sleeves				
(A)	110mmø HDPE Sleeves with 1,5mm <sup>2</sup> galvanized draw wire	m	50		
	Supply	m	50		
	Install	m	50		
(B)	110mmø HDPE Sleeves - 45° Bends	Item	2		
	Supply and Install	Item	2		
(C)	75mmø HDPE Sleeves with 1,5mm <sup>2</sup> galvanized draw wire	m	50		
	Supply	m	50		
	Install	m	50		
(D)	75mmø HDPE Sleeves - 45° Bends	Item	2		
	Supply and Install	Item	2		
(E)	50mmø HDPE Sleeves with 1,5mm <sup>2</sup> galvanized draw wire	m	25		
	Supply	m	25		
	Install	m	25		
1.2.3	Manholes				
(A)	Electrical Manholes: Internal dimensions of 1000mm x 1000mm x 600mm complete with normal square single seal manhole cover (600 x 600mm) to be seated in 15mm mortar casted around top layer of bricks with pre-cast concrete floor slab and provisions for sleeves as indicated. See detail of manholes on site layouts Colour coding of sleeves within manhole to be done with matching PVA paint as indicated	Item	1		
	Supply	Item	1		
	Install	Item	1		
	<b>Carried Forward</b>				

	Description	Unit	Qty	Rate	Amount
	<b>Total Brought Forward</b>				
(B)	Telephone/Data and Security Manholes Electrical Manholes: Internal dimensions of 1000mm x 1000mm x 600mm complete with normal Round single seal manhole cover (600mmø) to be seated in 15mm mortar casted around top layer of bricks with pre-cast concrete floor slab and provisions for sleeves as indicated. See detail of manholes on site layouts Colour coding of sleeves within manhole to be done with matching PVA paint as indicated Supply Install	Item Item	1 1		
(C)	Electrical Manholes: Internal dimensions of 1500mm x 1500mm x 600mm complete with normal square single seal manhole cover (1000 x 1000mm) to be seated in 15mm mortar casted around top layer of bricks with pre-cast concrete floor slab and provisions for sleeves as indicated. See detail of manholes on site layouts Colour coding of sleeves within manhole to be done with matching PVA paint as indicated Supply Install	Item Item	1 1		
<b>TOTAL FOR BILL NO.2 - PART 2 (Carried Forward to Summary)</b>					

	Description	Unit	Qty	Rate	Amount
	<b>BILL NO.2: PART 3 -EXCAVATIONS</b>				
1.3.1	This item allows for the excavation, backfilling and compaction of cable trenches as per specification: Part B.2 - Section 2: Item 2.5.2				
	(A) Cables and Sleeves: 600mm deep and 400mm wide in soft ground	m	170		
	(B) Cables and Sleeves: 600mm deep and 400mm wide in hard ground	m	100		
	(C) Cables and Sleeves: 600mm deep and 400mm wide in solid rock	m	60		
	<b>TOTAL FOR BILL NO.1 - PART 3 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
	<b><u>BILL NO.1: PART 4 -DISTRIBUTION BOARDS AND PANELS</u></b> <b><u>AS PER PART C2.3: SECTION 3: SCHEDULES OF LV</u></b> <b><u>CABLES AND DISTRIBUTION BOARDS</u></b>				
1.4.1	Distribution Boards (Emergency) as per schedule				
1.4.1.1	DB-GC-E				
	Supply	No	1		
	Install	No	1		
1.4.2	The supply of individual components for distribution boards and the installation thereof in boards with sufficient space for this (Prices required for alterations to boards and as such all quantities are provisional)				
1.4.2.1	100 A 1 Phase Electronic kwh Meter				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
1.4.2.2	100 A 3 Phase Electronic kwh Meter				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
1.4.2.3	5 kA 1 P Circuit Breakers				
	(a) <u>5 A - 20 A</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	(b) <u>25 A - 60 A</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	(c) <u>70 A - 80 A</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	(d) <u>90 A - 100 A</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
1.4.2.4	5 kA 3 P Circuit Breaker				
	(a) <u>5 A - 20 A</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	<b>Carried Forward</b>				

	Description	Unit	Qty	Rate	Amount
	<b>Total Brought Forward</b>				
	(b) <u>25 A - 60 A</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	(c) <u>70 A - 80 A</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	(d) <u>90 A - 100 A</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
1.4.2.5	5 kA 1 P + N Circuit Breaker				
	(a) <u>5 A - 20 A</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	(b) <u>25 A - 60 A</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	(c) <u>70 A - 80 A</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	(d) <u>90 A - 100 A</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
1.4.2.6	Switch Disconnecter 5 kA				
	(a) <u>60 A 2 P</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	(b) <u>100 A 2 P</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	(c) <u>60 A 3 P</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	(d) <u>100 A 3 P</u>				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
1.4.2.7	30 mA 5 kA Earth Leakage Protection Device				
	(a) 1 P + N 63 A without overload protection				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	(b) 1 P + N 30 A to 60 A with overload protection				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	(c) 1 P + N 80 A - 100 A with overload protection				
	Supply	Each	1		Rate Only
	Install	Each	1		Rate Only
	<b>TOTAL FOR BILL NO.1 - PART 4 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
	<b>BILL NO.1: PART 5 - LIGHTNING PROTECTION</b>				
1.5.1	Lightning Protection Supply, Install, Test and Commission				
	<b>EARTH ELECTRODES AND TEST POINTS - The Lightning Protection System will make use of a Type A earth electrode which will be installed 1500mm below FGL and 1m away from the perimeter of the building.</b>				
A	<b>1m away from the perimeter of the building.</b>				
A.1	SABS A Grade 1,5m Earth Electrode Clamp (DEHN 380029) for connection of 50mm <sup>2</sup> BCEW to	No	26		
A.2	earth spike. Clamp to be certified in terms of SANS 62561	No	26		
A.3	50mm <sup>2</sup> BCEW for connection from earth terminal to test box and earth spike	m	42		
A.4	DEHN 549001 cast iron test box with StSt disconnection clamp	No	6		
A.5	Connection from BCEW to Earth terminal (DEHN 478129)	No	26		
A.6	Excavations and back filling				
	Ground	m <sup>3</sup>	1		
	Soft Rock	m <sup>3</sup>	1		
	<b>DOWN CONDUCTOR SYSTEM - Dedicated down conductors will be installed within the concrete columns or in pvc conduit within the brickwork</b>				
B	<b>Earth terminal (DEHN 478200) at the bottom of the concrete column</b>				
B.1	Earth terminal (DEHN 478200) at the bottom of the concrete column	No	26		
B.2	Earth terminal (DEHN 478200) at the top of the concrete column	No	26		
B.3	8mm solid galv wire (DEHN 800008) within concrete column to ensure continuity from roof to ground	m	26		
B.4	MV clamp (DEHN 390060) to secure galv wire to steel reinforcing every 3m	No	20		
B.5	Clamp (DEHN 308035) to secure earth terminal to reinforcing steel.	No	20		
B.6	Supply and install 20mm PVC conduit within the brick work with all accessories.	No	20		
B.7	Supply and install 100mm x 100mm test box flush with brick work	No	6		
B.8	Supply and install 8mm Aluminium round wire (DEHN 840018) within the PVC conduit. Aluminium wire to be tested and certified in terms of SANS 62561	No	20		
B.9	Supply and install clamp for disconnection between Aluminium round wire and BCEW(DEHN 459129). Clamp to be tested and certified in accordance with SANS 62561.	No	20		
C	Soil resistivity test	Item	Sum		
D	Test of installation by a Specialist and submission of Test Certificates	Item	Sum		
	<b>TOTAL FOR BILL NO.1 - PART 5 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
1.6	<b><u>BILL NO.1: PART 6 - UNINTERRUPTIBLE POWER SUPPLIES (UPS)</u></b>				
1.6.1	Stand-alone single on-line UPS units, 5KVA 230V with 30min standby capacity as supplied by APC Smart-UPS 5000VA 230V Rackmount/ Tower				
	Supply	Item	8		
	Install	Item	8		
	Commission	Item	8		
	<b>TOTAL FOR BILL NO.1 - PART 6 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
1.7	<b>BILL NO.1: PART 7 - SPECIAL ITEMS</b>				
	Items not specifically mentioned but, which tenderers want listed separately and required for complete installation				
	a) Record Drawings of Complete LV Installation	Sum	3		
	b) Operation and Maintenance Manuals	Sum	1		
	c)				
	d)				
	e)				
	<b>TOTAL FOR BILL NO.1 - PART 7 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
1.8	<u>BILL NO.1: PART 8</u> TESTING OF COMPLETE ELECTRICAL INSTALLATION [Per DB]	Item	1		
	TOTAL FOR BILL NO.1 - PART 8 (Carried Forward to Summary)				

**TSHWARAGANO HOSPITAL**

**CONTRACT No. 2023/05**

**DOMESTIC SUB-CONTRACT FOR THE ELECTRICAL INSTALLATION**

**APPOINTMENT OF A CONTRACTOR TO UPGRADE THE TSHWARAGANO HOSPITAL:**

**ELECTRICAL INSTALLATION**

**PART C2.5: BILLS OF QUANTITIES**

**Bill 1: LV Infrastructure**

**SUMMARY ELECTRICAL BILL**

Part 1	Cabling Infrastructure	.....
Part 2	Manholes and Sleeves	.....
Part 3	Excavations	.....
Part 4	Distribution Boards and Panels as per Part B2: Section 3	.....
Part 5	Lightning Protection	.....
Part 6	UPS	.....
Part 7	Special Items	.....
Part 8	Testing of Electrical Installation	.....

**TOTAL: To Be Carried Forward To PART C2.5: BILLS OF QUANTITIES - SUMMARY OF BILL OF QUANTITIES: BILL 1: (Excluding 15% VAT)**

=====

**TSHWARAGANO HOSPITAL**

**CONTRACT No. 2023/05**

**DOMESTIC SUB-CONTRACT FOR THE ELECTRICAL INSTALLATION**

**APPOINTMENT OF A CONTRACTOR TO UPGRADE THE TSHWARAGANO HOSPITAL:**

**ELECTRICAL INSTALLATION**

**PART C2.5: BILLS OF QUANTITIES**

**Section 5 - Bill 2: General Electrical Installation**

	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
<b>1.1</b>	<b>ITEM 1.1</b> <b>Light Circuits</b>				
1.1.1	20mm PVC conduit recessed wall mounted				
	Supply	m	89		
	Install	m	89		
1.1.2	20mm PVC conduit ceiling mounted				
	Supply	m	420		
	Install	m	420		
1.1.3	2,5mm <sup>2</sup> PVC insulated conductor				
	Supply	m	1353		
	Install	m	1353		
1.1.3a	1,5mm <sup>2</sup> PVC insulated conductor				
	Supply	m	50		
	Install	m	50		
1.1.4	2,5mm <sup>2</sup> earth conductor				
	Supply	m	721		
	Install	m	721		
1.1.5	76mm ø round ceiling box with 20mm PVC conduit				
	Supply	No	212		
	Install	No	212		
1.1.6	Single lever one way switch white cover plate and 100x50x50mm recessed galvanized wall box with base at 1400mm AFFL on emergency power.				
	Supply	No	9		
	Install	No	9		
1.1.7	Occupancy Sensor with AC3 rating as supplied by Schneider Electric				
	Supply	No	16		
	Install	No	16		
1.1.8	16 A Industrial type photo cell switch as per specifications				
	Supply	No	8		
	Install	No	8		
1.1.9	5A Socket outlets				
	Supply	No	192		
	Install	No	192		
	<b>Carried Forward</b>				

	Description	Unit	Qty	Rate	Amount
	<b>Total Brought Forward</b>				
1.1.10	Single lever two way switch white cover plate and 100x50x50mm recessed galvanized wall box with base at 1400mm AFFL on emergency power.				
	Supply	No	11		
	Install	No	11		
1.1.11	Two lever one way switch white cover plate and 100x50x50mm recessed galvanized wall box with base at 1400mm AFFL on emergency power.				
	Supply	No	1		
	Install	No	1		
1.1.12	Three lever one way switch white cover plate and 100x50x50mm recessed galvanized wall box with base at 1400mm AFFL on emergency power.				
	Supply	No	1		
	Install	No	1		
1.1.12	Four lever one way switch white cover plate and 100x50x50mm recessed galvanized wall box with base at 1400mm AFFL on emergency power.				
	Supply	No	1		
	Install	No	1		
	<b>Total : Item 1.1 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
<b>1.2</b>	<b>ITEM 1.2</b> <b>Light Luminaires</b>				
1.2.1	<b>L1</b> Decorative recessed type, clean, stylish, high quality LED luminaire. High powered BACK-LIT non-dimmable LED luminaire. Low energy consumption, SABS approved, low maintenance, low glare, 4000K, 50 000 hrs @ L80 B10 595x595x36mm. Supplied by LASCON PROJECT LIGHTING, Cat No: LBP-22-40W-LED or similar and approved. Supply Install	No No	12 12		
1.2.2	<b>L2</b> Surface mount type, high efficiency LED luminaire with built-in surge protection. Tridonic LED module and driver, polycarbonate end caps, non-dimmable options, 1180x80x73mm. Supplied by Lascon Lighting Cat No.: LP1-17W-LED-HE or similar and approved. Supply Install	No No	10 10		
1.2.3	<b>L3</b> Wall mount decorative bulkhead fitting with IP65 rating, LM6 marine grade aluminum body accessories, chemical treated and epoxy powder coated, opal polycarbonate diffuser. Supplied by Lascon lighting, Cat No: RIMINI-DOME-21W-LED or similar and approved. Supply Install	No No	10 10		
1.2.4	<b>L4</b> Recessed mounted down-lighter wide beam with IP54 rated and built-in surge protection, non conductive/corrosive bezel, clear plexiglass IP shield , tridonic COB and driver, non-dimmable gear. Supplied by Lascon lighting, Cat No:FUT2-7W-LED-840 or similar and approved. Supply Install	No No	9 9		
1.2.4	<b>L5</b> Decorative surface mounted, 1260mm x 175mm x 53mm LED luminaire, with mild steel powder coated body, MIR04 louver,non-dimmable gear and tridonic LED module and driver. Supplied by Lascon Lighting Cat No.: SCL-W-21W-LED or similar and approved. Supply Install	No No	14 14		
1.2.4	<b>L6</b> Industrial, corrosion proof, LED Luminaire. Robust corrosion-resistant housing and diffuser, stainless steel latched, IP 65 complete with mounting kit and glands. Supplied by LASCON PROJECT LIGHTING, Cat No: Lascon-C10-HE-34W-LID or similar and approved. Supply Install	No No	150 150		
<b>Total : Item 1.2 (Carried Forward to Summary)</b>					

	Description	Unit	Qty	Rate	Amount
	<b>ITEM 1.3</b>				
<b>1.3.1</b>	<b>Socket Circuits</b>				
1.3.1.1	20mm PVC conduit recessed wall mounted	m	54		
	Supply				
	Install	m	54		
1.3.1.2	20mm PVC conduit recessed floor mounted	m	212		
	Supply				
	Install	m	212		
1.3.1.3	4mm <sup>2</sup> PVC insulated conductor	m	0		
	Supply				
	Install	m	0		
1.3.1.3a	2.5mm <sup>2</sup> PVC insulated conductor	m	606		
	Supply				
	Install	m	606		
1.3.1.4	2,5mm <sup>2</sup> earth conductor	m	289		
	Supply				
	Install	m	289		
1.3.1.5	<b>SNEW1</b>				
	16A 3pin switched single socket with 3pin switched Euro socket outlet with white cover plate and 100x100x50mm recessed galvanized wall box with base at 400mm AFFL on emergency power.				
	Supply	No	19		
	Install	No	19		
1.3.1.6	<b>SNEW2</b>				
	16A 3pin switched single socket with 3pin switched Euro socket outlet with white cover plate and 100x100x50mm recessed galvanized wall box with base at 1200mm AFFL on emergency power.				
	Supply	No	5		
	Install	No	5		
1.3.1.6	<b>SNEW3</b>				
	16A 3pin switched single socket with 3pin switched Euro socket outlet with white cover plate and 100x100x50mm recessed galvanized wall box with base at 1500mm AFFL on emergency power.				
	Supply	No	2		
	Install	No	2		
1.3.1.7	<b>SNEP4</b>				
	16A 3-pin switched socket outlet with white cover plate on power skirting on emergency power.				
	Supply	No	8		
	Install	No	8		
1.3.1.8	<b>SEEP4</b>				
	16A 3-pin switched Euro socket outlet with red cover plate on power skirting on emergency power.				
	Supply	No	8		
	Install	No	8		
1.3.1.9	<b>SDEP4</b>				
	16A 3-pin Dedicated switched socket outlet with blue cover plate on power skirting on emergency power.				
	Supply	No	16		
	Install	No	16		
	<b>Carried Forward</b>				

	Description	Unit	Qty	Rate	Amount
	<b>Total Brought Forward</b>				
1.3.1.10	<b>SNEB5</b> 16A 3-pin ZA switched normal socket outlet with white cover plate on bedhead trunking / pendant / TCP on emergency power.				
	Supply	No	3		
	Install	No	3		
1.3.1.11	<b>SUUP4</b> 16A 3pin Dedicated UPS switched single socket outlet with blue cover plate on power skirting on UPS power.				
	Supply	No	1		
	Install	No	1		
1.3.1.12	<b>DNEW1</b> 16A 3pin switched double socket outlet with red cover plate and 100x100x50mm recessed galvanized wall box with base 400mm AFFL on emergency power.				
	Supply	No	1		
	Install	No	1		
1.3.1.34	2 Channel 3 Compartment power skirting				
	Length	m	16		
	Bends	No	0		
	End Caps	No	16		
1.3.1.35	RJ-45 outlets in power skirting				
	Supply	No	33		
	Install	No	33		
1.3.1.36	RJ-11 outlets in power skirting				
	Supply	No	1		
	Install	No	1		
	<b>Carried Forward to Summary</b>				

	Description	Unit	Qty	Rate	Amount
	<b>Total Brought Forward</b>				
1.3.2	<b><u>Special Power Points</u></b>				
1.3.2.1	20mm PVC conduit surface mounted in ceiling				
	Supply	m	16		
	Install	m	16		
1.3.2.2	20mm PVC conduit recessed in wall				
	Supply	m	6		
	Install	m	6		
1.3.2.3	76mm ø round surface wall box for 20mm PVC conduit				
	Supply	m	43		
	Install	m	43		
1.3.2.4	6mm <sup>2</sup> PVC insulated conductor				
	Supply	m	10		
	Install	m	10		
1.3.2.5	4mm <sup>2</sup> PVC insulated conductor				
	Supply	m	46		
	Install	m	46		
1.3.2.6	2.5mm <sup>2</sup> earth conductor				
	Supply	m	25		
	Install	m	25		
1.3.2.8	<b>SP.EQ (Equipment on interior wall) - CE</b>				
	20A Double pole isolator recessed mounted in 100x50x50mm galvanized wall box on emergency power with white cover plate at 2000mm AFFL complete with 2x4mm <sup>2</sup> PVC conductors + 1x2.5mm <sup>2</sup> BCEW in 20mm ø conduit and 65mm round box outlet at 1400mm AFFL next to Hydroboil/ZIP				
	Supply	No	1		
	Install	No	1		
1.3.2.8	<b>SP.EQ (Equipment on interior wall) - FE</b>				
	20A Double pole isolator recessed mounted in 100x50x50mm galvanized wall box on emergency power with white cover plate complete with 2x4mm <sup>2</sup> PVC conductors + 1x2.5mm <sup>2</sup> BCEW in 20mm ø conduit within 1m from unit				
	Supply	No	1		
	Install	No	1		
1.3.2.9	<b>SP.EQ (Equipment on exterior wall) - AE</b>				
	20A Double pole isolator mounted in weatherproof "york" box on emergency power with red cover plate complete with 2x4mm <sup>2</sup> PVC conductors + 1x2.5mm <sup>2</sup> BCEW in 20mm ø conduit on wall within 1m from unit				
	Supply	No	1		
	Install	No	1		
1.3.2.10	<b>SP.EQ (Equipment in ceiling void) - BE</b>				
	20A Double pole surface mounted isolator on emergency power with red cover plate and extension box with 2x4mm <sup>2</sup> PVC conductors + 1x2.5mm <sup>2</sup> BCEW in 20mm ø conduit in ceiling void within 1m from unit				
	Supply	No	16		
	Install	No	16		
1.3.2.11	<b>SP.EQ (Equipment on exterior wall) - FE</b>				
	45A Triple pole isolator mounted in weatherproof "york" box on emergency power with red cover plate complete with 3x4mm <sup>2</sup> PVC conductors + 1x2.5mm <sup>2</sup> BCEW in 25mm ø conduit on wall within 1m from unit				
	Supply	No	1		
	Install	No	1		
	<b>Total : Item 1.3 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
	<b>ITEM 1.4</b>				
<b>1.4</b>	<b><u>FIRE DETECTION INSTALLATION : CONDUIT</u></b>				
1.4.1	100x50x50mm recessed galvanized wall box with coverplate	No	1		
	Supply	No	1		
	Install	No	1		
1.4.2	100x100x50mm recessed galvanized wall box with coverplate	No	1		
	Supply	No	1		
	Install	No	1		
1.4.3	76mm ø round surface wall box for 25mm ø conduit	No	40		
	Supply	No	40		
	Install	No	40		
1.4.4	25mm ø PVC conduit with draw wire in wall: Supply & Install	m	20		
1.4.5	25mm ø PVC conduit with draw wire in concrete: Supply & Install	m	20		
1.4.6	25mm ø PVC conduit with draw wire in ceiling: Supply & Install	m	118		
	<b>Total : Item 1.4 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
	<b>ITEM 1.5</b>				
<b>1.5</b>	<b><u>ICT CONDUIT INTSALLATION</u></b>				
1.5.1	100x50x50mm recessed galvanized wall box with coverplate				
	Supply	No	17		
	Install	No	17		
1.5.2	100x100x50mm recessed galvanized wall box with coverplate				
	Supply	No	1		
	Install	No	1		
1.5.3	76mm ø round surface wall box for 25mm ø conduit				
	Supply	No	25		
	Install	No	25		
1.5.4	25mm ø PVC conduit with draw wire in wall:				
	Supply & Install	m	15		
1.5.5	25mm ø PVC conduit with draw wire in concrete:				
	Supply & Install	m	20		
1.5.6	25mm ø PVC conduit with draw wire in ceiling:				
	Supply & Install	m	3		
	<b>Total : Item 1.5 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
	<b>ITEM 1.6</b>				
<b>1.6</b>	<b>SECURITY INSTALLATION : CONDUIT</b>				
1.6.1	100x50x50mm recessed galvanized wall box with coverplate				
	Supply	No	2		
	Install	No	2		
1.6.2	100x100x50mm recessed galvanized wall box with coverplate				
	Supply	No	1		
	Install	No	1		
1.6.3	76mm ø round surface wall box for 25mm ø conduit				
	Supply	No	11		
	Install	No	11		
1.6.4	25mm ø PVC conduit with draw wire in wall:				
	Supply & Install	m	25		
1.6.5	25mm ø PVC conduit with draw wire in concrete:				
	Supply & Install	m	25		
1.6.6	25mm ø PVC conduit with draw wire in ceiling:				
	Supply & Install	m	22		
	<b>Total : Item 1.6 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
	<b>ITEM 1.7</b>				
<b>1.7</b>	<b><u>VOICE EVACUATION INSTALLATION : CONDUIT</u></b>				
1.7.1	100x50x50mm recessed galvanized wall box with coverplate				
	Supply	No	1		
	Install	No	1		
1.7.2	100x100x50mm recessed galvanized wall box with coverplate				
	Supply	No	1		
	Install	No	1		
1.7.3	76mm ø round surface wall box for 25mm ø conduit				
	Supply	No	37		
	Install	No	37		
1.7.4	25mm ø PVC conduit with draw wire in wall:				
	Supply & Install	m	122		
1.7.5	25mm ø PVC conduit with draw wire in concrete:				
	Supply & Install	m	30		
1.7.6	25mm ø PVC conduit with draw wire in ceiling:				
	Supply & Install	m	187		
	<b>Total : Item 1.7 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
	<b>ITEM 1.8</b>				
<b>1.8</b>	<b><u>NURSE CALL INSTALLATION : CONDUIT</u></b>				
1.8.1	100x50x50mm recessed galvanized wall box with coverplate				
	Supply	No	4		
	Install	No	4		
1.8.2	100x100x50mm recessed galvanized wall box with coverplate				
	Supply	No	1		
	Install	No	1		
1.8.3	76mm ø round surface wall box for 25mm ø conduit				
	Supply	No	7		
	Install	No	7		
1.8.4	25mm ø PVC conduit with draw wire in wall:				
	Supply & Install	m	14		
1.8.5	25mm ø PVC conduit with draw wire in concrete:				
	Supply & Install	m	5		
1.8.6	25mm ø PVC conduit with draw wire in ceiling:				
	Supply & Install	m	21		
	<b>Total : Item 1.8 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
	<b>ITEM 1.9</b>				
1.9	<b>BEDHEAD TRUNKING INSTALLATION : CONDUIT</b>				
1.9.1	76mm x 76mm galvanized P8000 wiring trunking , complete chased into wall,covers , etc for a complete installation - Bedhead Trunking Supply and Install	m	3		
	<b>Total : Item 1.9 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
	<b>ITEM 1.10</b>				
1.10	<b>Special Items</b>				
	Items not specifically mentioned but, which tenderers want listed separately and required for complete installation - refer to specifications				
	a) Labelling of cables as per Specifications	No	3		
	b) Maintenance guarantee labelling on distribution boards as per Specifications	No	1		
	c) A4 legend cards for distribution boards as per Specifications	No	1		
	d) Phosphor Luminous Electrical Safety signage ( yellow triangle containing the flash sign ) for distribution boards as per Specifications	No	1		
	e) Labelling of distribution boards as per Specifications	Item	1		
	f)				
	g)				
	h)				
	i)				
	j)				
	k)				
	l)				
	m)				
	n)				
	o)				
	p)				
	<b>Total : Item 1.10 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
	<u>ITEM 1.11</u>				
1.11	Testing of Complete Electrical Installation	Sum	1		
	<b>Total : Item 1.11 (Carried Forward to Summary)</b>				

**TSHWARAGANO HOSPITAL**

**CONTRACT No. 2023/05**

**DOMESTIC SUB-CONTRACT FOR THE ELECTRICAL INSTALLATION  
APPOINTMENT OF A CONTRACTOR TO UPGRADE THE TSHWARAGANO HOSPITAL:**

**ELECTRICAL INSTALLATION**

**PART C2.5: BILLS OF QUANTITIES**

**Bill 2: General Electrical Installation**

<b><u>SUMMARY ELECTRICAL BILL</u></b>	<b>Amount</b>
Item 1.1 Light Circuits	.....
Item 1.2 Light Luminaires	.....
Item 1.3 Socket Circuits	.....
Item 1.4 FIRE DETECTION INSTALLATION : CONDUIT	.....
Item 1.5 ICT CONDUIT INTSALLATION	.....
Item 1.6 SECURITY INSTALLATION : CONDUIT	.....
Item 1.7 VOICE EVACUATION INSTALLATION : CONDUIT	.....
Item 1.8 NURSE CALL INSTALLATION : CONDUIT	.....
Item 1.9 BEDHEAD TRUNKING INSTALLATION : CONDUIT	.....
Item 1.10 Special Items	.....
Item 1.11 Testing of Complete Electrical Installation	.....
<b>TOTAL : To Be Carried Forward To PART C2.5: BILLS OF QUANTITIES - SUMMARY OF BILL OF QUANTITIES: BILL 2: (Excluding 15% VAT)</b>	<b>=====</b>

**TSHWARAGANO HOSPITAL**

**CONTRACT No. 2023/05**

**DOMESTIC SUB-CONTRACT FOR THE ELECTRICAL INSTALLATION**

**APPOINTMENT OF A CONTRACTOR TO UPGRADE THE TSHWARAGANO HOSPITAL: INSTALLATION**

**ELECTRICAL INSTALLATION**

**PART C2.5: BILLS OF QUANTITIES**

**Section 5 - Bill 3: Bedhead Trunking & Ancillary Equipment**

	Description	Unit	Qty	Rate	Amount
<b>1.1</b>	<b>Horizontal bedhead Trunking</b>				
1.1.1	Horizontal bedhead trunking as per specification, blank aluminium power/lighting bed skirting fixed to new or existing finished wall (light switches, socket outlets, nurse call equipment etc measured elsewhere), as per specification, Part C2.5: Section 2, Item 3. Items not measured elsewhere must be included under this item.				
	Supply	m	2.5		
	Install	m	2.5		
	Test & Commissioning	Item	Sum		
1.1.2	Recessed galvanized wall boxes (300mm x 100mm) complete with access for medical gasses, electronic and electrical conduits.				
	Supply	No	1		
	Install	No	1		
1.1.3	Extra for sealed exposed end				
	Supply	No	2		
	Install	No	2		
1.1.4	Extra for L-, T- or cross-intersection				
	Supply	No	0		
	Install	No	0		
1.1.5	Nurse Call Point (Provision Only)				
	Supply	No	1		
	Install	No	1		
1.1.6	Gas Points: Compressed Air LP (complete with outlet and piping), as per specification, Part C2.5: Section 2, Item 4				
	Supply	No	0		
	Install	No	0		
1.1.7	Gas Points: Compressed Air HP (complete with outlet and piping), as per specification, Part C2.5: Section 2, Item 4				
	Supply	No	0		
	Install	No	0		
1.1.8	Gas Points: O2 (complete with outlet and piping), as per specification, Part C2.5: Section 2, Item 4				
	Supply	No	2		
	Install	No	2		
	<b>Carried Forward</b>				

	Description	Unit	Qty	Rate	Amount
	<b>Brought Forward</b>				
1.1.9	Gas Points: Vacuum (complete with outlet and piping), as per specification, Part C2.5: Section 2, Item 4	No	2		
	Supply	No	2		
	Install				
1.1.10	16A Socket outlet with all accessories - White (Normal Power), as per specification, Part C2.5: Section 2, Item 6	No	1		
	Supply	No	1		
	Install				
1.1.11	16A socket outlet with all accessories - Red (Essential Power), as per specification, Part C2.5: Section 2, Item 6	No	3		
	Supply	No	3		
	Install				
1.1.12	16A socket outlet with all accessories - Blue (UPS Power), as per specification, Part C2.5: Section 2, Item 6	No	1		
	Supply	No	1		
	Install				
1.1.13	16A socket 3-Pin ZA-Type outlet with all accessories - Red (Essential Power), as per specification, Part C2.5: Section 2, Item 6	No	0		
	Supply	No	0		
	Install				
1.1.14	16A socket 3-Pin ZA-Type outlet with all accessories - Blue (UPS Power), as per specification, Part C2.5: Section 2, Item 6	No	0		
	Supply	No	0		
	Install				
1.1.15	Up light - As per specification, Part C2.5: Section 2, Item 7.1	No	1		
	Supply	No	1		
	Install				
1.1.16	Single lever switch for ceiling mounted downlighter/inspection lamp/up light	No	1		
	Supply	No	1		
	Install				
1.1.17	500mm Gabler Rail	No	1		
	Supply	No	1		
	Install				
1.1.18	RJ-45 Data outlet	No	1		
	Supply	No	1		
	Install				
	<b>TOTAL FOR BILL NO.3 - ITEM 1.1 (Carried Forward to Summary)</b>				

	Description	Unit	Qty	Rate	Amount
<b>1.2</b>	<b>Ancilliary Equipment</b>				
1.2.1	2-Panel viewing screen as per specification, Part C2.5: Section 2, Item 8				
	Supply	No	1		
	Install	No	1		
	Test & Comissioning	Item	Sum		
1.2.2	3-Panel viewing screen as per specification, Part C2.5: Section 2, Item 8				
	Supply	No	1		
	Install	No	1		
	Test & Comissioning	Item	Sum		
1.2.3	<b>4A</b>				
	Wall / Desk / Pole / Rail mounted examination light catering for Normal Care to Intensive Care Wards, arm reach of 1.2m, integral clutch system, anti-microbial additive in the plastic molded parts, lux output: 50 000 Lux at 500mm, IP54, 4500K, as supplied by HUTZ				
	Cat.: Hugo-W (-D -P - R) complete with extendable arm and fixing plate with electrical male/ female adapter plug and capable of operation from 230V and 12V/12W LED lamp or similar approved type luminaire				
	Supply	No	3		
	Install	No	3		
	Test & Comissioning	Item	Sum		
1.2.4	<b>4B</b>				
	Ceiling mounted examination light catering for Normal Care to Intensive Care Wards, arm reach of 1.4m and 360deg rotation, integral clutch system, anti-microbial additive in the plastic molded parts, lux output: 50 000 Lux at 500mm, IP54, 4500K, as supplied by HUTZ				
	Cat.: Hugo-C complete with extendable arm and fixing plate with electrical male/ female adapter plug and capable of operation from 230V and 12V/12W LED lamp or similar approved type luminaire				
	Supply	No	1		
	Install	No	1		
	Test & Comissioning	Item	Sum		
1.2.5	Any other materials, labour, etc. to complete the installation and not included for in items above	Sum	0		
1.2.6	Preventative Maintenance and repair during the 12 month defects liability period. Schedule to be provided and signed of by Engineer.	Sum	1		
1.2.7	Operation and Maintenance Manuals	No	1		
<b>TOTAL FOR BILL NO.3 - ITEM 1.2 (Carried Forward to Summary)</b>					

**TSHWARAGANO HOSPITAL**

**CONTRACT No. 2023/05**

**DOMESTIC SUB-CONTRACT FOR THE ELECTRICAL INSTALLATION**

**APPOINTMENT OF A CONTRACTOR TO UPGRADE THE TSHWARAGANO HOSPITAL: INSTALLATION**

**ELECTRICAL INSTALLATION**

**PART C2.5: BILLS OF QUANTITIES**

**Bill 3: Bedhead Trunking & Ancillary Equipment**

**SUMMARY ELECTRICAL BILL**

**Amount**

Item 1.1 Horizontal Bedhead Trunking

\_\_\_\_\_

Item 1.2 Ancilliary Equipment

\_\_\_\_\_

**TOTAL : To Be Carried Forward To PART C2.5: BILLS OF QUANTITIES - SUMMARY OF BILL OF QUANTITIES: BILL 3:**

=====

Item	Description	Unit	Qty	Unit Price	Amount
	<b><u>TSHWARAGANO GATEWAY CLINIC</u></b> <b><u>CONTRACT No. 2023/05</u></b> <b><u>PART II</u></b> <b><u>ELECTRONIC &amp; IT INSTALLATION</u></b> <b><u>Section 5 - Bill 4 : CCTV SYSTEM</u></b>				
	<b>Supply, install, test and commission CCTV system complete with all hardware, software, terminations, Fixings, etc</b>				
<b>2.1</b>	<b><u>CCTV system</u></b>				
	IP based fully networked CCTV system as provided by Avigilon/Bosch/Pelco or equal approved system				
	<b>Central Equipment-reception desk gateway clinic</b>				
2.1.1	Network Video Recorder as required for the 16 cameras	No	1		
	Supply	No	1		
	Install				
2.1.2	System Management Software Suite complete with all necessary licenses for up to 40 cameras and 2 No. simultaneous client operators and backup and archiving software suite if not included above	No	1		
	Supply	No	1		
	Install				
2.1.3	Video recording software as specified if not included above	No	1		
	Supply	No	1		
	Install				
2.1.4	Analytical Software if not included as specified if not included above	No	16		
	Supply	No	16		
	Install				
2.1.5	23" Colour 4K monitor connected as specified	No	1		
	Supply	No	1		
	Install				
2.1.6	Operators Control PC, keyboard, joystick complete with power supply, operating system licence etc	No	1		
	Supply	No	1		
	Install				
	<b>Amount carried forward</b>				

Item	Description	Unit	Qty	Rate	Amount
	<b>Amount brought forward</b>				
2.1.7	<b>Field Equipment - Cameras</b>				
2.1.8	<b>Gateway Clinic</b>				
2.1.9	Camera Type 1 - High Res Colour Fixed POE Indoor dome - ceiling recessed inclusive of recessed housing	No	7		
	Supply	No	7		
	Install				
2.1.10	Camera Type 2 - High Res Colour Fixed POE outdoor bullet- wall mounted	No	2		
	Supply	No	2		
	Install				
2.1.11	<b>Cabling</b>				
2.1.11.1	Cat 6a Cable- Krone or equal approved				
	Supply	m	250		
	Install	m	250		
2.1.11.2	Cat 6a - RJ45 terminations and test results				
	Supply	No	9		
	Install	No	9		
	<b>Other:</b>				
2.1.12	Training Program, Operating Instructions ,Operating Manuals, Maintenance Manuals neatly binded in an indexed file.	Sum	5		
2.1.13	Preventative maintenance and repair during the 12 month defects liability period. Schedule to be provided and signed of by Engineer.	Sum	1		
2.1.14	Items required to provide a fully functional system must be listed and priced on a supply and install basis				
<b>TOTAL FOR BILL NO. 2 CCTV SYSTEM CARRIED FORWARD TO SUMMARY</b>					

Item	Description	Unit	Qty	Unit Price	Amount
<b><u>TSHWARAGANO GATEWAY CLINIC</u></b> <b><u>CONTRACT No. 2023/05</u></b> <b><u>PART II</u></b> <b><u>ELECTRONIC &amp; IT INSTALLATION</u></b> <b><u>Section 5 - Bill 5 : ELECTRONIC SECURITY SYSTEM</u></b>					
Supply, install, test and commission Access Control, intruder detection and emergency call system complete with all hardware, software, terminations, Fixings, etc					
<b>3.1</b>	<b><u>Access Control system</u></b>				
<b>IMPRO, SOFTCON, PAXTON , IDEMIA OR SIMILAR APPROVED</b>					
<b>Central Equipment</b>					
3.1.1	Local Controller complete with housing, terminating and fixing materials connected to LAN network switch located in IT Room				
	Supply	No	1		
	Install	No	1		
3.1.2	Door controller complete with housing and fixing materail connected to local controoler capable of connecting to 2 card readers, door locks and 2 request to exit devices				
	Supply	No	5		
	Install	No	5		
3.1.3	Access control administration and alarm monitoring , logging, trending, reporting and enrolment etc loaded on CCTV workstation				
	Supply	Item	1		
	Install	Item	1		
3.1.4	Programming , testing and commissioning the access control system based on 5 doors				
	Install	Item	1		
<b>Amount carried forward</b>					

Item	Description	Unit	Qty	Rate	Amount
	<b>Amount brought forward</b>				
3.1.4	<b>Field Equipment - Access Control</b>				
3.1.4.1	Weatherproof RFID multidiscipline proximity card /keypad reader connected to controller , mounted on stainless steel cover plate				
	Supply	No	7		
	Install	No	7		
3.1.4.2	Illuminated and audible resettable Green breakglass unit connected to interrupt Maglock power supply mounted on stainless steel cover plate				
	Supply	No	5		
	Install	No	5		
3.1.4.3	600kg, 24V DC magnetic shear lock fitted to aluminium door and frame conncted to controller				
	Supply	No	2		
	Install	No	2		
3.1.4.4	300kg, 24V DC magnetic lock fitted/recessed to wooden/steel door and frame conncted to controller				
	Supply	No	5		
	Install	No	5		
3.1.4.5	No Touch Request to exit sensir connected to controller mounted on stainless steel cover plate				
	Supply	No	3		
	Install	No	3		
	<b>Cabling</b>				
3.1.4.6	2.5mm2 3core fire retardant cable to connect door controllers to local controller including all terminations and fixing				
	Supply	m	180		
	Install	m	180		
3.1.4.7	0.5mm2 mylar cable required to connect access cntrol door devices				
	Supply	No	100		
	Install	No	100		
3.1.4.8	Connectors, adaptors, labels and other cnsomables and material required to complete the installation				
	<b>Amount carried forward</b>				

Item	Description	Unit	Qty	Rate	Amount
	Amount brought forward				
<b>3.2</b>	<b><u>Intruder Detection system</u></b>				
	<b>IDS, CADDX, PARADOX or similar approved standalone system</b>				
3.2.1	I/O controller with arm/disarm keypad -minimum 16 input, 8 output connected to the access control system network	No	1		
	Supply	No	1		
	Install				
3.2.2	8 Zone LED programmable keypad with quickarm mode	No	1		
	Supply	No	1		
	Install				
3.2.3	Setup of alarm zones	Item	1		
	Install				
	<b>Field Equipment - Intruder Detection System</b>				
3.2.4	Flush mounted door/window position switch connected to I/O controller	Item	3		
	Supply	Item	3		
	Install				
3.2.5	Ceiling Mount 3600 PIR detector connected to I/O controller	No	2		
	Supply	No	2		
	Install				
3.2.6	Panic button wall mounted connected to I/O controller	No	1		
	Supply	No	1		
	Install				
3.2.7	Flashing red high intensity LED and siren connected to I/O controller	No	1		
	Supply	No	1		
	Install				
	<b>Cabling</b>				
3.2.8	0.5mm2 mylar cable	No	30		
	Supply	No	30		
	Install				
3.2.9	Connectors, adaptors, labels and other cnsomables and material required to complete the installation				
	Amount carried forward				

Item	Description	Unit	Qty	Rate	Amount
	Amount brought forward				
<b>3.3</b>	<b><u>Emergency Assist Alarm System</u></b>				
	VOCALL or similar approved				
3.3.1	Standalone 220V emergency alarm interface unit mounted in suitable enclosure in ceiling void connected to pull cords and push buttons				
	Supply	No	1		
	Install	No	1		
3.3.2	Ceiling pull cord connected to interface unit and audible alarm				
	Supply	No	1		
	Install	No	1		
3.3.3	Wall mount push button mounted on stainless steel cover plate				
	Supply	No	1		
	Install	No	1		
3.3.4	Wall mount reset button mounted on stainless steel cover plate				
	Supply	No	1		
	Install	No	1		
3.3.5	Overdoor Flashing LED indicator lamp mounted on ceiling				
	Supply	No	1		
	Install	No	1		
3.4	Training Program, Operating Instructions ,Operating Manuals, Maintenance Manuals neatly binded in an indexed file.	Sum	5		
3.5	Preventative maintenance and repair during the 12 month defects liability period. Schedule to be provided and signed of by Engineer.	Sum	1		
<b>TOTAL FOR BILL NO. 5 ELECTRONIC SECURITY SYSTEM CARRIED FORWARD TO SUMMARY</b>					

Item	Description	Unit	Qty	Unit Price	Amount
	<b><u>TSHWARAGANO GATEWAY CLINIC</u></b> <b><u>CONTRACT No. 2023/05</u></b> <b><u>PART II</u></b> <b><u>ELECTRONIC &amp; IT INSTALLATION</u></b> <b><u>Section 5 - Bill 6 : IT NETWORK</u></b>				
	Supply, install, test and commission IT Network complete with all hardware, software, terminations, Fixings, etc				
<b>4.1</b>	<b><u>IT Network system</u></b>				
	Full IT network back bone, copper distribution cabling and switching as supplied by Krone, Aruba, Cisco or equal approved				
	<b>Central Equipment-reception Network cabinet</b>				
4.1.1	19inch 19U swing frame wall mounted cabinet-700mm deep- mild steel with glass door ,3 No. divider, 3 No. 1U Brush panel, 3 No. 1U Blank, 1 No. 5 way power adaptor including tray with 2 fans, grounding cables and kit. Doors to be lockable.				
	Supply	No	1		
	Install	No	1		
4.1.2	Krone 1U fibre patch panel				
	Supply	No	1		
	Install	No	1		
4.1.3	Krone mid coupler module LC DX SM 6port (12 fibres)				
	Supply	No	1		
	Install	No	1		
4.1.4	Krone CAT 6A 24 port patch panel				
	Supply	No	2		
	Install	No	2		
4.1.5	Krone CAT 6A UTP patch cord 1 meter				
	Supply	No	42		
	Install	No	42		
4.1.6	Test, label and certify each UTP link				
	Install	No	42		
	<b>Amount carried forward</b>				

Item	Description	Unit	Qty	Rate	Amount
	<b>Amount brought forward</b>				
	<b>network switches</b>				
4.1.7	HP CISCO or equal approved 24 Port Layer 3 Switch SFP POE	No	3		
	Supply	No	3		
	Install				
4.1.8	24port - 5 year 24x7 coverage for hardware - 4 hour hardware fix, software updates	No	3		
	Supply				
4.1.9	24port - 5 year 24x7 software support - Next Business Day hardware fix, software updates	No	3		
	Supply				
4.2	<b>Field Equipment - IT Network</b>				
4.2.1	Krone CAT 6A UTP cabling keystone RJ45 jack	No	42		
	Supply	No	42		
	Install				
4.2.2	Krone HK to FMK S2000 adapter clip RJ45 (8P8C) jack	No	42		
	Supply	No	42		
	Install				
4.2.3	Patch panel punch down connection	No	42		
	Supply	No	42		
	Install				
4.2.4	Test, label and certify each UTP link	No	42		
	Supply				
	<b>Cabling</b>				
4.2.5	Krone CAT 6A UTP cabling	m	450		
	Supply	m	450		
	Install				
4.2.5	Single mode Optic Fibre Communication Cable 9/125 duty outdoor installation type, polyethylene water resistant outer sheath, gell filled tubes central strength member, 6 pair (12 core)	m	100		
	Supply	m	100		
	Install				
4.2.5	Any other software, tools, sundries, and materials not detailed above but required to provide fully functional system.				
4.2.6	Allowance to link existing LAN and WAN infrastructure inclusive of all software and hardware	item	1		
4.3	Training Program, Operating Instructions ,Operating Manuals, Maintenance Manuals neatly binded in an indexed file.	Sum	5		
4.4	Preventative maintenance and repair during the 12 month defects liability period. Schedule to be provided and signed of by Engineer.	Sum	1		
<b>TOTAL FOR BILL NO. 6 IT NETWORK CARRIED FORWARD TO SUMMARY</b>					

**TSHWARAGANO GATEWAY CLINIC**

**CONTRACT No. 2023/05**

**PART II**

**ELECTRONIC & IT INSTALLATION**

**Section 5 - Bill 7 : Smoke Detection**

	Description	Unit	Qty	Rate	Amount
	<b><u>BILL NO. 7</u></b> <b><u>FIRE DETECTION SYSTEM</u></b>				
	Allow for all items required to provide the new fire detection system, complete with all peripherals. Also included is the UPS. All as shown on the drawings and as specified				
5.1	ADDRESSABLE ANALOGUE FIRE DETECTION SYSTEM (Note: All quantities are provisional)				
	Design, supply, installation, testing, commissioning, etc. of Ziton, Technoswitch, Aritech or similar:				
5.1.1	Main fire control panel (addressable) (2 loop) wall mounted on wall and network connected via TCP/IP for future integration				
	Supply	No	1		
	Install	No	1		
5.1.2	Optical smoke detectors complete with baseplate as specified fixed to suspended ceiling tiles, fixed ceiling boarding, concrete slab soffit forming a hole through the ceiling board for wiring, fixed to trunking, fixed to round conduit boxes, etc. as specified.				
	Supply	No	22		
	Install	No	22		
5.1.3	Heat detector complete with baseplate as specified fixed to suspended ceiling tiles, fixed ceiling boarding, concrete slab soffit forming a hole through the ceiling board for wiring, fixed to trunking, fixed to round conduit boxes, etc. as specified.				
	Supply	No	1		
	Install	No	1		
	<b>Amount carried forward</b>				

	Description	Unit	Qty	Rate	Amount
	<b>Amount brought forward</b>				
5.1.4	Breakglass units, including connection				
	Supply	No	2		
	Install	No	2		
5.1.5	Combined audible and visual signal, including connection				
	Supply	No	2		
	Install	No	2		
5.1.6	LED extensions for detectors located in ceiling voids				
	Supply	No	2		
	Install	No	2		
5.1.7	I/O Units				
	Supply	No	5		
	Install	No	5		
5.1.8	Fire resistant cable - PH30				
	Supply	m	300		
	Install	m	300		
5.1.9	16 x 16mm PVC flexible trunking				
	Supply	m	1		
	Install	m	1		
5.2	<b><u>PUBLIC ADDRESS/VOICE EVACUATION SYSTEM</u></b>				
	<b>Allow for all items required to provide the new PA/EVAC, complete with all peripherals. All as shown on the drawings and as specified</b>				
	Design, supply, installation, testing, commissioning, etc. of approved 70/100 Volt line public address and evacuation system comprising of:				
5.2.1	Power amplifier 2 channel 300 Watt (Crown drive core DCI 2/300 N or equal approved)				
	Supply	No	1		
	Install	No	1		
5.2.2	Program, calibrate and configure all devices and integrate with Fire Panel				
	Install	No	1		
5.2.3	Ceiling 6 Watt flush mounted loudspeaker with tap selector, ceramic connector and fuse				
	Supply	No	2		
	Install	No	2		
5.2.4	10 Watt horn loudspeaker complete with brackets				
	Supply	No	2		
	Install	No	2		
5.2.5	Microphone on desk stand				
	Supply	No	2		
	Install	No	2		
5.2.6	Loudspeaker cable 2.5 mm <sup>2</sup> (PH30)				
	Supply	m	30		
	Install	m	30		
5.3	Any other materials, labour, etc. to complete the installation and not included for in items above	Sum	1		
5.4	Maintenance and repair during the 12 month defects liability period	Sum	1		
5.5	Maintenance and repair during the 12 months following the completion of the guarantee period	Sum	1		
	<b>TOTAL FOR BILL NO. 7: FIRE DETECTION SYSTEM (Carried forward to Summary)</b>				

**TSHWARAGANO HOSPITAL**

**CONTRACT No. 2023/05**

**DOMESTIC SUB-CONTRACT FOR THE ELECTRICAL INSTALLATION**

**APPOINTMENT OF A CONTRACTOR TO UPGRADE THE TSHWARAGANO HOSPITAL:**

**ELECTRICAL INSTALLATION**

**PART C2.5: BILLS OF QUANTITIES**

**Section 5 - Bill 8: Provisional Sum Items**

No	Description	Unit	Qty	Tarrif	Amount
1.1	<b><u>Provisional sum Items</u></b>				
1.1.1	<b><u>Damage to existing services</u></b> The following provisional amount is included in the tender for the Repairs to existing Electrical infrastructure _____ % Profit and attendance	Provisional Item	1	R 250 000.00	R 250 000.00
1.1.3	<b><u>Eskom supply upgrade</u></b> The following provisional amount is included in the tender for the upgrade of the existing Eskom connection. _____ % Profit and attendance	Provisional Item	1	R 500 000.00	R 500 000.00
	<b>TOTAL : To Be Carried Forward To PART C2.5: BILLS OF QUANTITIES - SUMMARY OF BILL OF QUANTITIES: BILL 8: (Excluding 15% VAT)</b>				

**TSHWARAGANO HOSPITAL**

**CONTRACT No. 2023/05**

**DOMESTIC SUB-CONTRACT FOR THE ELECTRICAL INSTALLATION**

**APPOINTMENT OF A CONTRACTOR TO UPGRADE THE TSHWARAGANO HOSPITAL:**

**ELECTRICAL AND ELECTRONIC INSTALLATION**

**PART C2.5: BILLS OF QUANTITIES**

**Summary Electrical Bill**

	<b>Amount</b>
Bill 1: LV Infrastructure	.....
Bill 2: General Electrical Installation	.....
Bill 3: Medical Bedhead Trunking and Ancillary Equipment	.....
Bill 4: CCTV installation	.....
Bill 5: Access Control and Intruder Detection	.....
Bill 6: IT Network Installation	.....
Bill 7: Smoke Detection and Public Address	.....
Bill 8: Provisional Amount	.....
<b>TOTAL : (Excluding 15% VAT) to be carried forward to final summary page</b>	<b>.....</b>

TSHWARAGANO HOSPITAL GATEWAY CLINIC REFURBISHMENT  
SECTION 6 - BILL 1 : HVAC BILLS OF QUANTITY

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
<b>MAIN HVAC EQUIPMENT INCLUDING SUPPORT BASE, FRAME, ANTI-VIBRATIONS MOUNTS, 8mm HANGAR SUPPORTS AND 32mm X 32mm ANGLE SUPPORTS</b>					
<b>Heat Recovery System for Gateway Clinic</b>					
1	56 kW Heat Recovery Condenser	ea,	1		
2	TRDK03R1 Refnet Branch Joint	ea.	1		
3	TMS Box 10 Port	ea.	1		
4	14 kW Hydro Unit	ea.	1		
5	Centralized Wall Controller 10.1 Inch Display	ea.	1		
<b>Internal Hide-away AHU Units</b>					
6	VRF 3.6 kW Heating and Cooling Unit Medium Static	ea,	2		
7	VRF 2.8 kW Heating and Colling Unit Medium Static	ea.	6		
8	VRF 7.12 kW Heating and Cooling Unit High Static	ea.	2		
9	3.6 kW Cooling Only DX Split Unit for Pharmacy Back Up	ea.	1		
<b>Ducting Complete with 25 mm FRK on SA Side Only 0.8mm Gauge in accordance with SMACNA Standards</b>					
10	520 X 150mm → 250Ømm SA Connection to AHU01	ea.	8		
11	570 X 180mm → 570 X 300mm (Deep) X 500mm (L) Plenum	ea.	8		
12	200Ømm Spigot cut into Return Air Plenum	ea.	8		
13	435 X 260mm → 350Ømm SA Connection to AHU 03	ea.	2		
14	730 X 345 X 300 (L) Plenum on FA of AHU03	ea.	2		
15	730 X 345 → 400Ømm FA Connection to Plenum AHU03	ea.	2		
16	SA Duct Insulated 350mmØ	m	9		
17	SA Duct Insulated 275mmØ	m	12		
18	SA Duct Insulated 150mmØ	m	12		
19	SA Duct Insulated 350mmØ 90° Bends	ea.	1		
20	SA Duct Insulated 150mmØ	ea.	2		
21	RA 200mmØ duct un-insulated	m	16		
22	RA 200mmØ duct un-insulated 90° Bends	ea.	8		
23	RA 250mmØ duct un-insulated 90° Bends	ea.	6		
24	EA 250mmØ duct un-insulated	m	26		
25	EA 250mmØ duct un-insulated 90° Bends	ea.	17		
26	EA 300mmØ duct un-insulated	m	7		
27	EA 300mmØ duct un-insulated 90° Bends	ea.	5		
28	EA 150mmØ duct un-insulated	m	11		
29	EA 150mmØ duct un-insulated Spigots	m	11		
30	250mmØ insulated Flexibles	m	20		
31	200mmØ insulated Flexibles	m	5		
32	150mmØ insulated Flexibles	m	16		
33	250mmØ → 150mmØ Transformation un-insulated	ea.	2		
TOTAL FOR THIS BILL: carried forward to next page					

TSHWARAGANO HOSPITAL GATEWAY CLINIC REFURBISHMENT  
SECTION 6 - BILL 1 : HVAC BILLS OF QUANTITY

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
CARRIED FORWARD FROM PREVIOUS PAGE					
<b>REFRIGERANT PIPING C/W 150mm LIGHT DUTY CABLE LADDERS, INSULATION - INSULATION TO BE UV TREATED AT OUTDOORS</b>					
34	1/4 inch copper piping - 6.35mmØ	m	67		
35	1/2 inch copper piping - 12.7mmØ	m	72		
36	5/8 inch copper piping - 15.88mmØ	m	24		
37	3/8 inch copper piping - 9.52mmØ	m	29		
38	1-1/8 inch copper piping - 28.58mmØ	m	24		
39	1-1/4 inch copper piping - 31.75mmØ	m	24		
40	3/4 inch copper piping - 19.05mmØ	m	24		
<b>DIFFUSERS AND GRILLES POWDERCOATED RAL 9010 WHITE</b>					
41	SD01-04; SD-11; SD14-15 595X595 SWIRL CAV DIFFUSER	ea.	7		
42	SD08-09 595X595 SWIRL CAV DIFFUSER	ea.	2		
43	SD05-07; SD-11-13; SD16-20 595X595 SWIRL CAV DIFFUSER	ea.	12		
44	SD01-04; SD-11; SD14-15 595X595 SWIRL CAV DIFFUSER	ea.	7		
45	ED19-31 150mmØ Disc Valve RAL 9010	ea.	11		
46	RAG01-09 595X595 RA Grille with Plenum Over	ea.	10		
47	EG-01-03 595 X 595 EG Grille c/w Plenum Over	ea.	3		
48	DG-01 500 X 300 Door Grille Natural Anodised	ea.	10		
<b>CONDENSATE DRAINAGE UPVC (BLUE PIPE) C/W A MINIMUM FALL OF 1:100 C/W PIPE HANGAR SUPPORTS</b>					
49	50Ømm drain piping	m	24		
50	50Ømm drain piping 45° Bends	ea.	8		
51	32Ømm drain piping	m	60		
52	32Ømm drain piping 90° Bends	ea.	50		
53	Female to Female Pipe Joints 50mmØ	ea.	12		
54	Female to Female Pipe Joints 32mmØ	ea.	10		
55	P-Traps for Condensate 32Ømm	ea.	10		
<b>ELECTRICAL CABLING AND CONNECTIONS</b>					
56	0.75mm² X 3 Core Communication Wire	m	200		
57	0.22mm² Mylar Conttol Cable	m	80		
TOTAL FOR THIS BILL: carried forward to next page					

TSHWARAGANO HOSPITAL GATEWAY CLINIC REFURBISHMENT  
SECTION 6 - BILL 1 : HVAC BILLS OF QUANTITY

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
CARRIED FORWARD FROM PREVIOUS PAGE					
	<b>FANS AS PER DRAWING K7050-M-001-0A</b>				
58	EF-01 In-Line Tube Fan 180 l/s @ 75 Pa c/w 1.5 D Sound Att.	ea.	1		
59	EF-02 In-Line Tube Fan 300 l/s @ 100 Pa c/w 1.5 D Sound Att.	ea.	1		
60	EF-03 In-Line Tube Fan 150 l/s @ 90 Pa c/w 1.5 D Sound Att.	ea.	1		
61	EF-04 In-Line Tube Fan 60 l/s @ 90 Pa c/w 1.5 D Sound Att.	ea.	1		
62	EF-05 In-Line Tube Fan 300 l/s @ 100 Pa c/w 1.5 D Sound Att.	ea.	1		
	<b>PRELIMINARIES AND GENERAL</b>				
63	Site Attendance	Sum	1		
64	Transport and Rigging	Sum	1		
65	Workshop Drawings	Sum	1		
66	Operation and Maintenance Manuals	Sum	1		
67	12 Month Maintenance and Gaurantee	Sum	1		
68	Addiitonal 24 kg R410A Refrigeration Charge	kg	24		
TOTAL FOR THIS BILL: carried forward to Final Summary Page					

TSHWARAGANO DISTRICT HOSPITAL  
SECTION 7 - BILL 1 : BULK FIRE BILL OF QUANTITY

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<b>FIRE</b>				
	<b>Class 16 mPVC duraflo or equal piping shall be used for all underground fire services. The installation shall include all necessary bedding and thrust blocks on bends, Tee's and reducers</b>				
1	110mm diameter pipe	m	1081		
2	63mm diameter pipe	m	95		
3	50mm diameter pipe	m	240		
4	40mm diameter pipe	m	540		
	<b>Extra over for Fittings, bends, Tee's and reducers</b>				
5	110mm fittings	ea	221		
6	63mm fittings	ea	35		
7	50mm fittings	ea	40		
8	40mm fittings	ea	122		
	<b>Valves and Accessories</b>				
9	110mm shut off valve (crank type) located in valve manholes for maintenance	ea	12		
	<b>Main Site Pumps and Tanks</b>				
10	25 lts/sec @550kPA diesel fire pump complete with control, electrical control panel, sounder alarms, strobe light, diesel tank and bund wall	ea	1		
11	288 kL Abeco or equal combined domestic/fire tank c/w plitnhs (600 h) tank splitter in middle, access manholes, 2 off fire 100 dia. take-offs at base on tank = 180 kL, 2 off 100 dia. domestic take-off's = 398 kL	ea	1		
TOTAL FOR THIS BILL: carried forward to next page					

TSHWARAGANO DISTRICT HOSPITAL  
SECTION 7 - BILL 1 : BULK FIRE BILL OF QUANTITY

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
CARRIED FORWARD PAGE 1					
<b>Valves and Accessories to make the system compliant in accordance with good practice and maintenance regimes</b>					
12	100mmØ shut off Gate Valve	ea	16		
13	100mmØ strainer	ea	1		
14	80mmØ shut off Gate Valve	ea	9		
15	80mmØ strainer	ea	2		
16	100mmØ pump flexible	ea	2		
17	80mmØ pump flexible	ea	4		
18	100mmØ non-return valve	ea	3		
19	80mmØ non-return valve	ea	6		
20	50mmØ shut off Gate Valve	ea	6		
<b>Internal Plantroom Piping and Accessories to make the system functional in accordance with NFPA standards &amp; SANS 10400 Section T including installation</b>					
20	100mmØ Galvanized Piping primed and painted signal red	m	10		
21	100mmØ 90° Bends	ea.	8		
22	80mmØ Galvanized Piping	m	24		
23	80mmØ 90° Bends	ea	22		
24	100mmØ Flange Pairs	ea	22		
25	80mmØ Flange Pairs	ea	44		
26	100mmØ Galvanized Piping hangers	ea	16		
27	80mmØ Galvanized Piping hangers	ea	32		
<b>Miscellaneous and Sundries</b>					
28	Thrust kick blocks on bends and Tee's 300x300x300mm	ea	15		
29	63mm dia Woodlands or equal pillar fire hydrant complete with key valve and quick coupling fire hose connections	ea	12		
CARRIED FORWARD TO FORM OF TENDER					

TSHWARAGANO DISTRICT HOSPITAL  
SECTION 7 - BILL 1 : BULK FIRE BILL OF QUANTITY

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
CARRIED FORWARD PAGE 1					
15	Connex fittings from Class 16 blue pipe to galvanised risers up building	ea	18		
16	Trenching, bedding and compacting of soil over piping in accordance with SANS1200LB/LD	m <sup>2</sup>	540		
17	Fire booster connection for boosting fire line by Fire Department	ea	1		
18	Fire pressure gauges (0-2000kPA)	ea	2		
<b>Preliminaries and General</b>					
19	Transport and Logistics	Sum	1		
20	Site Attendance	Sum	1		
21	Workshop Drawings	Sum	1		
22	Operation and Maintenance Manuals	Sum	1		
23	12 Month Maintenance, Gaurantee and Warranty	Sum	1		
24	Excavation Equipment	Sum	1		
25	Compacting Equipment	Sum	1		
TOTAL FOR THIS BILL: carried forward to Final Summary Page					

TSHWARAGANO HOSPITAL GATEWAY CLINIC REFURBISHMENT  
SECTION 8 - BILL 1 : INTERNAL FIRE SERVICES BILLS OF QUANTITY

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
<b>MAIN FIRE SERVICES EQUIPMENT IN ACCORDANCE WITH SANS 10400 SECTION T</b>					
<b>Fire Piping c/w with hangar supports primed and painted</b>					
<b>Signal Red</b>					
1	25mmØ Galvanized Piping	m	12		
2	25mmØ 90° Bends	ea.	6		
3	110mmØ X 110mmØ X 110mmØ equal Tee	ea.	1		
4	110mmØ X 110mmØ X 63mmØ Tee	ea.	1		
5	110mmØ → 63mmØ Reducer	ea.	1		
6	63mmØ → 25mmØ Reducer	ea.	1		
7	25mmØ crank shut-off valve	ea.	1		
8	Dry Powder Extinguishers 4.5 kg	ea.	2		
9	CO2 Extinguishers 2.5 kg	ea.	1		
10	Fire Signage as per Drawings	Sum	1		
<b>Preliminaries and General</b>					
11	12 Month Maintenance and Gaurantee	Sum	1		
12	Operation and Maintenance Manuals	Sum	1		
13	Site Attendance	Sum	1		
14	Transport and Logistics	Sum	1		
<b>TOTAL FOR THIS BILL: carried forward to Final Summary Page</b>					

TSHWARAGANO HOSPITAL GATEWAY CLINIC REFURBISHMENT  
SECTION 9 - BILL 1 : WET SERVICES BILLS OF QUANTITY (WATER)

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
<b>MAIN WET SERVICES EQUIPMENT INCLUDING SUPPORT BASE, FRAME, ANTI-VIBRATIONS MOUNTS</b>					
<b>Hot water Calorifier including insulation and Galvanized Metal Cladding</b>					
1	1000 litre calorifier c/w 12 kW back up electrical elements heating. Rated for Maximum pressure of 650 kPA with a working pressure of 400 kPA	ea,	1		
2	Control DB for Hot Water System complete with temperature probes, delay timers, on/off/auto switch, controller, temp leaving, temp entering, pump initiation based on delta T	ea.	1		
3	Circulating Pump from Hydro Booster to Calorifier, 0.8 l/s at a head pressure of 6m. Pump to have three speed selection setting	ea.	2		
4	Circulating Pump from Hot Water Return, 1.0 l/s at a head pressure of 8m. Pump to have three speed selection setting	ea.	2		
<b>Cold &amp; Hot Water Piping c/w hangar supports and rubber lined pipe support clamps.</b>					
5	54mmØ UPVC Class 16 Pipe to Building from Civil CW Line	m	22		
6	54mmØ UPVC Class 16 Pipe 90° Bends	ea.	12		
7	54mmØ X 54mmØ X 54mmØ equal Tee	ea.	1		
8	54mmØ → 35mmØ Reducer	ea.	1		
9	54mmØ → 28mmØ Reducer	ea.	1		
10	35mmØ Copper Piping	m	36		
11	28mmØ Copper Piping	m	34		
12	Female to Female 35mmØ Copper Couplings	ea.	12		
13	Female to Female 28mmØ Copper Couplings	ea.	12		
14	35mmØ X 35mmØ X 35mmØ equal Tee	ea.	14		
15	28mmØ X 28mmØ X 28mmØ equal Tee	ea.	12		
16	35mmØ → 22mmØ Reducer	ea.	2		
17	35mmØ → 15mmØ Reducer	ea.	10		
18	28mmØ → 22mmØ Reducer	ea.	2		
19	28mmØ → 15mmØ Reducer	ea.	14		
20	35mmØ 90° Bends	ea.	5		
21	28mmØ 90° Bends	ea.	7		
22	22mmØ 90° Bends	ea.	12		
23	15mmØ 90° Bends	ea.	44		
24	Female to Female 15mmØ Copper Couplings	ea.	32		
25	22mmØ Copper Piping	m	45		
26	15mmØ Copper Piping	m	90		
27	54mmØ → 32mmØ Conex Fitting	ea.	1		
28	54mmØ → 28mmØ Conex Fitting	ea.	1		
<b>TOTAL FOR THIS BILL: carried forward to next page</b>					

TSHWARAGANO HOSPITAL GATEWAY CLINIC REFURBISHMENT  
SECTION 9 - BILL 1 : WET SERVICES BILLS OF QUANTITY (WATER)

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
CARRIED FORWARD FROM PREVIOUS PAGE					
	<b>Hot Water Piping thermoflex insulation in accordance with manufacturers details</b>				
29	28mmØ Copper Piping	m	34		
30	22mmØ Copper Piping	m	45		
31	15mmØ Copper Piping	m	80		
	<b>Shut off Ball Valves c/w angle gate and connections to copper piping in accordance with manufacturers details</b>				
32	50mmØ Shut-off Valve	ea.	2		
33	35mmØ Shut-off Valve	ea.	6		
34	28mmØ Shut-off Valve	ea.	2		
35	22mmØ Shut-off Valve	ea.	7		
36	15mmØ Shut-off Valve	ea.	28		
	<b>Miscellaneous Items and Preliminaries and General</b>				
37	1 Roll Denzo Tape	ea.	1		
38	50mmØ Water Meter	ea.	1		
39	28mmØ Pressure Reducing Valve	ea.	1		
40	400 kPA Expansion Relief Valve 20mmØ	ea.	1		
41	Temperature and Pressure Safety Valve	ea.	1		
42	Y Strainer 50mmØ	ea.	1		
43	0-1000 kPA Pressure Gauge (Inlet/ Outlet)	ea.	2		
44	28mmØ Non Return Valve	ea.	1		
45	Expansion Bladder Vessel 5 litres	ea.	1		
46	0-100°C Thermostats on Pipe	ea.	4		
47	15mmØ nipples	ea.	8		
48	12 Month Maintenance and Gaurantee	Sum	1		
49	Operation and Maintenance Manuals	Sum	1		
50	Site Attendance	Sum	1		
51	Transport and Logistics	Sum	1		
TOTAL FOR THIS BILL: carried forward to Final Summary Page					

TSHWARAGANO HOSPITAL GATEWAY CLINIC REFURBISHMENT  
SECTION 10 - BILL 1 : WET SERVICES BILLS OF QUANTITY (SEWER)

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
<b>MAIN SEWER PIPING INCLUDING BEDDING OF PIPES IN ACCORDANCE WITH SANS 1200 LB</b>					
<b>Geberit Fused Joint Sewer System Pressure Tested to 300 Pa in accordance with SANS 10252 Part 2</b>					
1	110mmØ HDPE Piping	m	127		
2	50mmØ HDPE Piping	m	79		
3	110mmØ X 110mmØ X 110mmØ 45° Junction	ea.	18		
4	110mmØ → 50mmØ Reducer	ea.	13		
5	110mmØ 90° Inspection IE Bends	ea.	7		
6	50mmØ 90° Inspection IE Bends	ea.	16		
7	Concrete Encassing of Pipes	m³	2.6		
8	300mm X 300mm X 300mm Thrust Blocks	ea.	10		
9	100mmØ One-Way Vent Valves	ea.	2		
10	Anti-Vac S/Steel Bottle Traps for Basins	ea.	16		
11	P-Trap for Sinks	ea.	2		
12	Excavations (Out)	m³	49		
13	Excavations (in including compacting and correct bedding)	m³	49		
14	110mmØ Rodding Eyes - Cast Iron Cover Plate)	ea.	4		
15	110mmØ Sewer End Cap	ea.	1		
16	1000mmØ Manhole as per details on drawings	ea.	1		
<b>Preliminaries and General</b>					
17	Transport and Logistics	Sum	1		
18	Site Attendance	Sum	1		
19	Flow Testing in accordance with SANS 10252 Part 2	Sum	1		
20	Workshop Drawings	Sum	1		
21	Operation and Maintenance Manuals	Sum	1		
22	Excavation Equipment	Sum	1		
23	Benching of Piping Into Manhole	Sum	1		
<b>TOTAL FOR THIS BILL: carried forward to Final Summary Page</b>					

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Preliminaries and General	170	
2	Building Work	287	
3	External Work	325	
4	Provisional Sums	328	
5	Electrical and Electronics Installation	370	
6	HVAC and Ventilation	373	
7	Fire Installation : Bulk	376	
8	Fire Installation : Internal	377	
9	Wet Services : Water	379	
10	Wet Services : Sewer	380	
	Sub-Total		R
	<b>SKILLS DEVELOPMENT</b>		
	Minimum Contract Skills Development Goal (CSDG) sum = CE (0.25%) x Subtotal of the tender amount	0.25%	R
	Sub-Total		R
	<b>ADJUSTMENT OF BUILDING WORK</b>		
	Allow the amount of R1,800,000.00 for adjustment of building work, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.		R
	Sub-Total		R
	ADD VAT @ 15%		R
	<b>Carried to Form of Offer</b>		R