



mandela bay
DEVELOPMENT AGENCY
RENEW • REVIVE • INSPIRE

OCTOBER 2023

**APPOINTMENT OF A PRINCIPAL
CONTRACTOR:**

**REHABILITATION OF
UITENHAGE RAILWAY SHEDS**

TENDER NUMBER: MBDA URS 10/23

TENDER BILLS OF QUANTITIES

A Tender for Category 7GB or higher CIDB Registered Contractors

ISSUED BY:

The Chief Executive Officer Mandela
Bay Development Agency P O Box 74
Port Elizabeth
6000

Contact Person: Pamela Govender
e-mail: publictenders@mbda.co.za

Registered Name of Tenderer:	
TRADING NAME OF TENDERER:	
Registration No. of Entity:	
Contact Person:	Central Supplier Database (CSD) number:
Tel. No.:	E-mail Address:
Cell No.:	Fax No:
CIDB CRS Number(s):	

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SECTION NO. 1

PRELIMINARIES

Item	Amount
<p>SECTION NO. 1</p> <p>PRELIMINARIES</p> <p>PRELIMINARIES</p> <p>BUILDING AGREEMENT AND PRELIMINARIES</p> <p>The JBCC Principal Building Agreement (March 2014 Edition 6.1) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The JBCC Principal Building Agreement contract data form an integral part of this agreement</p> <p>The Preliminaries Revision 1 (February 2016) published by the Association of South African Quantity Surveyors for use with the JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described</p> <p>The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause</p> <p>The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only.</p> <p>Where any item is not relevant to this agreement such item is marked N/A (signifying not applicable)</p> <p>Within the contract data document there is space to insert changes made to the JBCC documentation.</p> <p>Below the abovementioned space the following note has been inserted:</p> <p>'Note : The amendments contained herein or in the single referenced Annexure constitute the only amendments to the standard JBCC Agreement that will apply. No other amendments shall be of any force or effect'.</p> <p>PREAMBLES FOR TRADES</p> <p>The Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the Model Preambles</p> <p>The contractor's prices for all items throughout these bills of quantities shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles and/or specifications</p> <p>Carried To Section Summary</p> <p>Section No. 1 Bill No. 1 Preliminaries</p>	<p>R</p>

STRUCTURE OF THIS PRELIMINARIES BILL

Section A : A recital of the headings of the individual clauses of the aforementioned JBCC Principal Building Agreement

Section B : A recital of the headings of the individual clauses of the aforementioned Preliminaries document

Section C : Any special clauses to meet the particular circumstances of the project

PRICING OF PRELIMINARIES

Should the **contractor** select Option A in the contract data for the adjustment of **preliminaries**, the amounts entered against the relevant items in these **preliminaries** are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)

SECTION A: PRINCIPAL BUILDING AGREEMENT

Interpretation (A1 - A7)

1 Clause 1.0 - Definitions and interpretation

Definition of agreement

The definition of **agreement** is replaced with the following definition :

'AGREEMENT : The **JBCC** Principal Building Agreement, the completed **JBCC** PBA contract data, the **contract drawings**, the **priced documents** and any other documents reduced to writing and signed by the **parties**'

Pricing of bills of quantities

The **contractor** is to allow opposite each item for all costs in connection therewith. 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 (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this **agreement**. Value Added Tax (VAT) is to be separately stated on the summary page of these **bills of quantities**

Items left unpriced will be deemed to be covered in prices against other items throughout these **bills of quantities** and no claim for any extras arising out of the **contractor's** omission to price any item will be entertained

Prices for all **construction equipment**, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary

Abbreviated descriptions

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The items in these **bills of quantities** utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the **contractor** shall, before submission of his tender, call for a written directive from the **principal agent**, failing which it shall be assumed that the **contractor** has allowed in his pricing for materials and workmanship in terms of international best practice

Legal status of contractor

If the **contractor** constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:

1. These persons are deemed to be jointly and severally liable to the **employer** for the performance of this **agreement**
2. These persons shall notify the **employer** of their leader who has authority to bind the **contractor** and each of these persons
3. The **contractor** shall not alter its composition or legal status without the prior written consent of the **employer**

Errata by JBCC

Omit from definition of **construction period** the words : 'excluding annual holiday periods' Omit from definition of **preliminaries** the word : 'priced'

F: V: T:

2 Clause 2.0 - Law, regulations and notices

Health and safety

Without limiting the generality of the provisions of clause 2.0, the **contractor's** attention is drawn to the provisions of Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the **employer** shall prepare a documented health and safety specification for the **works** (refer to Annexure ? for a copy of the relevant specification) and that the **employer** shall ensure that the **contractor** has made provision for the cost of health and safety measures during the execution of the **works**. The **contractor** shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [2.1]

The **contractor** shall:

1. Comply with the health and safety specification for the **works**
2. Prepare and agree with the health and safety consultant the health and safety plan for the **works**
3. Co-operate with the health and safety consultant in all respects
4. Manage the compliance of all **subcontractors** with the regulations and with the health and safety plan and specification
5. Conform to the conditions contained in the **employer's** safety specification

F: V: T:

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Item		Amount
3	<p>Clause 3.0 - Offer and acceptance</p> <p>F: V: T:</p>	Item
4	<p>Clause 4.0 - Assignment and cession</p> <p>F: V: T:</p>	Item
5	<p>Clause 5.0 - Contract documents</p> <p>Value Added Tax</p> <p>Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT)</p> <p>Contract drawings</p> <p>Refer to Annexures for a list of the contract drawings [5.1]</p> <p>Priced document as specification</p> <p>Clause 5.3 is deemed to be deleted</p> <p>The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any</p> <p>Electronic issue of drawings</p> <p>Where drawings for this project are issued electronically the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.5]</p> <p>Precedence</p> <p>Clause 5.6 is deemed to be deleted. The provisions of the Bill No. 1 (Preliminaries) shall take precedence over any other documents which constitute this agreement [5.6]</p> <p>F: V: T:</p>	Item
6	<p>Clause 6.0 - Employer's agents</p> <p>Delegated authority</p> <p>The authority of the principal agent to issue contract instructions and perform duties for specific aspects of the works is delegated to agents as follows [7.2]:</p> <ol style="list-style-type: none"> 1. Architect 2. Structural Engineer 3. Civil Engineer 4. Electrical Engineer 5. Mechanical Engineer <p>User Note</p> <p>Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent</p>	
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Item	Amount
<p>Note that the contract instructions hereinafter are those listed in clause 17.0 of the JBCC PBA</p> <p>1.1 Duties : The architect is responsible for the architectural design, functional design and quality inspection of the works</p> <p>1.2 Contract instructions [17.0] :</p> <p>1.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement</p> <p>1.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works</p> <p>1.2.3 The site [13.2.4]</p> <p>1.2.4 Compliance with the law , regulations and bylaws [2.1]</p> <p>1.2.5 Provision and testing of samples of materials and goods , of finishes and assemblies of elements of the works</p> <p>1.2.6 Opening up of work for inspection, removal or re-execution</p> <p>1.2.7 Removal or re-execution of work</p> <p>1.2.8 Removal or substitution of any materials and goods</p> <p>1.2.9 Protection of the works</p> <p>1.2.10 Making good physical loss and repairing damage to the works [8.0]</p> <p>1.2.11 Rectification of defects [21.2]</p> <p>1.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion</p> <p>1.2.13 Expenditure of budgetary allowances , prime cost amounts and provisional sums</p> <p>1.2.14 Appointment of a subcontractor [14.0; 15.0]</p> <p>1.2.15 Termination of a nominated n/s subcontract agreement [27.2.8]</p> <p>1.2.16 Work by (a) direct contractor (s) [17.0]</p> <p>1.2.17 Access by other or previous contractors to remedy defective work</p> <p>1.2.18 Removal from the site of any person employed on the works</p> <p>1.2.19 Removal from the site of any person not engaged on or connected with the works</p> <p>1.2.20 On termination, protection of the works , removal of construction equipment and surplus materials and goods [29.0]</p> <p>? 2. Quantity surveyor</p> <p>User note</p>	
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Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the **principal agent**

Note that the contract instructions hereinafter are those listed in clause 17.0 of the JBCC PBA

2.1 Duties : The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works

2.2 Contract instructions [17.0] :

2.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement

2.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works

2.2.3 The site [13.2.4]

2.2.4 Compliance with the law , regulations and bylaws [2.1]

2.2.5 Provision and testing of samples of materials and goods , of finishes and assemblies of elements of the works

2.2.6 Opening up of work for inspection, removal or re-execution

2.2.7 Removal or re-execution of work

2.2.8 Removal or substitution of any **materials and goods**

2.2.9 Protection of the works

2.2.10 Making good physical loss and repairing damage to the works [8.0]

2.2.11 Rectification of **defects** [21.2]

2.2.12 A **list for practical completion** specifying outstanding or **defective** work to be rectified to achieve **practical completion** and a **list for completion** and a **list for final completion** specifying outstanding or **defective** work to be rectified to achieve **final completion**

2.2.13 Expenditure of budgetary allowances , prime cost amounts and provisional sums

2.2.14 Appointment of a subcontractor [14.0; 15.0]

2.2.15 Termination of a nominated n/s subcontract agreement [27.2.8]

2.2.16 Work by (a) direct contractor (s) [17.0]

2.2.17 Access by other or previous contractors to remedy defective work

2.2.18 Removal from the site of any person employed on the works

2.2.19 Removal from the site of any person not engaged on or connected with the works

2.2.20 On termination, protection of the works , removal of construction equipment and surplus materials and goods [29.0]

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<p>3. Civil and structural engineer</p> <p>User note</p> <p>Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent</p> <p>Note that the contract instructions hereinafter are those listed in clause 17.0 of the JBCC PBA</p> <p>3.1 Duties : The civil and structural engineer is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works</p> <p>3.2 Contract instructions [17.0] :</p> <p>3.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement</p> <p>3.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works</p> <p>3.2.3 The site [13.2.4]</p> <p>3.2.4 Compliance with the law , regulations and bylaws [2.1]</p> <p>3.2.5 Provision and testing of samples of materials and goods , of finishes and assemblies of elements of the works</p> <p>3.2.6 Opening up of work for inspection, removal or re-execution</p> <p>3.2.7 Removal or re-execution of work</p> <p>3.2.8 Removal or substitution of any materials and goods</p> <p>3.2.9 Protection of the works</p> <p>3.2.10 Making good physical loss and repairing damage to the works [8.0]</p> <p>3.2.11 Rectification of defects [21.2]</p> <p>3.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion</p> <p>3.2.13 Expenditure of budgetary allowances , prime cost amounts and provisional sums</p> <p>3.2.14 Appointment of a subcontractor [14.0; 15.0]</p> <p>3.2.15 Termination of a nominated n/s subcontract agreement [27.2.8]</p> <p>3.2.16 Work by (a) direct contractor (s) [17.0]</p> <p>3.2.17 Access by other or previous contractors to remedy defective work</p> <p>3.2.18 Removal from the site of any person employed on the works</p> <p>Carried To Section Summary</p> <p>Section No. 1</p> <p>Bill No. 1</p> <p>Preliminaries</p>	<p>R</p>

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3.2.19 Removal from the site of any person not engaged on or connected with the works

3.2.20 On termination, protection of the works , removal of construction equipment and surplus materials and goods [29.0]

?4. Mechanical engineer

User note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

Note that the contract instructions hereinafter are those listed in clause 17.0 of the JBCC PBA

4.1 Duties : The mechanical engineer is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works

4.2 Contract instructions [17.0] :

4.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement

4.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works

4.2.3 The site [13.2.4]

4.2.4 Compliance with the law , regulations and bylaws [2.1]

4.2.5 Provision and testing of samples of materials and goods , of finishes and assemblies of elements of the works

4.2.6 Opening up of work for inspection, removal or re-execution

4.2.7 Removal or re-execution of work

4.2.8 Removal or substitution of any materials and goods

4.2.9 Protection of the works

4.2.10 Making good physical loss and repairing damage to the works [8.0]

4.2.11 Rectification of **defects** [21.2]

4.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion

4.2.13 Expenditure of budgetary allowances , prime cost amounts and provisional sums

4.2.14 Appointment of a subcontractor [14.0; 15.0]

4.2.15 Termination of a nominated n/s subcontract agreement [27.2.8]

4.2.16 Work by (a) direct contractor (s) [17.0]

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<p>4.2.17 Access by other or previous contractors to remedy defective work</p> <p>4.2.18 Removal from the site of any person employed on the works</p> <p>4.2.19 Removal from the site of any person not engaged on or connected with the works</p> <p>4.2.20 On termination, protection of the works , removal of construction equipment and surplus materials and goods [29.0]</p> <p>?5. Electrical engineer</p> <p>User note</p> <p>Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent</p> <p>Note that the contract instructions hereinafter are those listed in clause 17.0 of the JBCC PBA</p> <p>5.1 Duties : The electrical engineer is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works</p> <p>5.2 Contract instructions [17.0] :</p> <p>5.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement</p> <p>5.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works</p> <p>5.2.3 The site [13.2.4]</p> <p>5.2.4 Compliance with the law , regulations and bylaws [2.1]</p> <p>5.2.5 Provision and testing of samples of materials and goods , of finishes and assemblies of elements of the works</p> <p>5.2.6 Opening up of work for inspection, removal or re-execution</p> <p>5.2.7 Removal or re-execution of work</p> <p>5.2.8 Removal or substitution of any materials and goods</p> <p>5.2.9 Protection of the works</p> <p>5.2.10 Making good physical loss and repairing damage to the works [8.0]</p> <p>5.2.11 Rectification of defects [21.2]</p> <p>5.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion</p> <p>5.2.13 Expenditure of budgetary allowances , prime cost amounts and provisional sums</p> <p>5.2.14 Appointment of a subcontractor [14.0; 15.0]</p>	
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5.2.15 Termination of a nominated n/s subcontract agreement [27.2.8]
 5.2.16 Work by (a) direct contractor (s) [17.0]
 5.2.17 Access by other or previous contractors to remedy defective work
 5.2.18 Removal from the site of any person employed on the works
 5.2.19 Removal from the site of any person not engaged on or connected with the works
 5.2.20 On termination, protection of the works , removal of construction equipment and surplus materials and goods [29.0]
 ?7. Wet Services engineer
 User note
 Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent
 Note that the contract instructions hereinafter are those listed in clause 17.0 of the JBCC PBA
 7.1 Duties : The electrical engineer is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the **works**
 7.2 Contract instructions [17.0] :
 7.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this **agreement**
 7.2.2 Alteration to design, standards or quantity of the **works** provided that such contract instructions shall not substantially change the scope of the **works**
 7.2.3 The **site** [13.2.4]
 7.2.4 Compliance with the law , regulations and bylaws [2.1]
 7.2.5 Provision and testing of samples of materials and goods , of finishes and assemblies of elements of the works
 7.2.6 Opening up of work for inspection, removal or re-execution
 7.2.7 Removal or re-execution of work
 7.2.8 Removal or substitution of any materials and goods
 7.2.9 Protection of the works
 7.2.10 Making good physical loss and repairing damage to the works [8.0]
 7.2.11 Rectification of **defects** [21.2]
 7.2.12 A **list for practical completion** specifying outstanding or **defective** work to be rectified to achieve **practical completion** and a **list for completion** and a **list for final completion** specifying outstanding or **defective** work to be rectified to achieve **final completion**

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	<p>7.2.13 Expenditure of budgetary allowances , prime cost amounts and provisional sums</p> <p>7.2.14 Appointment of a subcontractor [14.0; 15.0]</p> <p>7.2.15 Termination of a nominated n/s subcontract agreement [27.2.8]</p> <p>7.2.16 Work by (a) direct contractor (s) [17.0]</p> <p>7.2.17 Access by other or previous contractors to remedy defective work</p> <p>7.2.18 Removal from the site of any person employed on the works</p> <p>7.2.19 Removal from the site of any person not engaged on or connected with the works</p> <p>7.2.20 On termination, protection of the works, removal of construction equipment and surplus materials and goods [29.0]</p> <p>8. Health and safety consultant</p> <p>User note</p> <p>Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent</p> <p>Note that the contract instructions hereinafter are those listed in clause 17.0 of the JBCC PBA</p> <p>8.1 Duties : The health and safety consultant is responsible for all aspects of health and safety of the works.</p> <p>Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions</p> <p>8.1.1 Act as the employer's agent in terms of Construction Regulations issued in terms of the Occupational Health and Safety Act,1993</p> <p>8.1.2 Prepare and update the health and safety specification for the works</p> <p>8.1.3 Agree with the contractor the health and safety plan for the works</p> <p>8.1.4 Carry out regular audits to ensure adherence to the safety plan and compliance with the Act and Regulations</p> <p>8.1.5 Stop the execution of the works where the agreed specification or plan is not adhered to</p>	
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7	<p>Clause 7.0 - Design responsibility</p> <p>F: V: T:</p> <p>Insurance and security (A8 - A11)</p>	Item
8	<p>Clause 8.0 - Works risk</p> <p>F: V: T:</p>	Item
9	<p>Clause 9.0 - Indemnities</p> <p>F: V: T:</p>	Item
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10	<p>Clause 10.0 - Insurances</p> <p>F: V: T:</p>	
11	<p>Clause 11.0 - Security</p> <p>User note</p> <p>If it is deemed advisable, the EXTENT of any security for payment may be stated as follows:</p> <p>?Security for payment</p> <p>The employer shall provide to the contractor security for payment in the amount of ? Rand (R) ? [11.4.1, 11.10] ?</p> <p>User note</p> <p>Where it is expected of the contractor to waive his lien in terms of clause 11.10, the waiver of lien may be extended to subcontracts as follows:</p> <p>? Extension of waiver of lien</p> <p>The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times [11.10] ?</p> <p>Errata by JBCC</p> <p>Clause 11.5</p> <p>Replace "ten (10)" with "five (5)"</p> <p>F: V: T:</p>	
12	<p>Clause 12.0 - Duties of the parties</p> <p>Provisions of clauses 12.1.2 to 12.1.6 and 12.2.18</p> <p>Refer to the contract data, the Preliminaries document and "Section B : Preliminaries" of this Bill No. 1 with reference to the provisions of clauses 12.1.2 to 12.1.6 and 12.2.18 of the JBCC Principal Building Agreement</p> <p>? Office accommodation</p> <p>The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18] ?</p> <p>? Notice board</p> <p>The contractor shall erect in a position approved by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the principal agent listing the names and logos of the employer, the contractor, and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18] ?</p>	
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	<p>User note</p> <p>Clause 12.1.5 requires the employer to identify access to water, sewer, stormwater and/or electricity connections to the site.</p> <p>Should such information be available then it is to be stated here or in the contract data in detail with a suitable heading in bold.</p> <p>Reference as [12.1.5]. The user should, however, note that clauses 8.1 and 8.2 of the Preliminaries state that the employer</p> <p>does not warrant that any water or electricity supplies that may exist are adequate for the proper execution of the works. Any</p> <p>ambiguity in this respect is to be dealt with</p> <p>Should access to water, sewer, stormwater and/or electricity connections not be identifiable due to such information not being available or the specific requirements of the contractor cannot be determined, then the following clause may be considered in which event a qualified tender may be expected</p> <p>? Access to water, sewer, stormwater and electricity connections</p> <p>The employer is not in a position to identify access to water, sewer, stormwater and/or electricity connections to the site as may be suitable for the execution of the works. The contractor is to allow what he considers to be required and is to qualify his tender in detail in this regard, failing which it shall be taken that the contractor has allowed what will be required for the execution of the works. In such case no claims for additional cost or loss shall be entertained [12.1.5] ?</p> <p>Statutory and other notices</p> <p>User note</p> <p>Statutory and other notices which the contractor must submit and/or comply with before possession of the site can be given are to be stated here or in the contract data. Reference [12.1.6]</p> <p>If specific information is not available then the user may consider a clause along the following lines</p> <p>? The contractor shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the works by the contractor. The contractor shall pay all deposits or fees in this regard [12.1.6]</p> <p>It is, however, specifically recorded that the employer shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto ?</p> <p>Errata by JBCC</p> <p>Clause 12.2.17 Omit the words "[CD] within ten (10) working days"</p> <p>F: V: T:</p>	
13	<p>Clause 13.0 - Setting out</p> <p>F: V: T:</p>	
	Carried To Section Summary	R
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Item		Amount
14	<p>Clause 14.0 - Nominated subcontractors</p> <p>Errata by JBCC</p> <p>Clause 14.1.4 Reference should read "[17.1.14]"</p> <p>Clause 14.6 Reference should read "[17.1.15; 27.1.8]"</p> <p>Clause 14.7.2 Reference should read "[27.1.8]"</p> <p>Clause 14.7.3 Reference should read "[27.2.8]"</p> <p>F: V: T:</p>	Item
15	<p>Clause 15.0 - Selected subcontractors</p> <p>Errata by JBCC</p> <p>Clause 15.2 Reference should read "[17.1.14]"</p> <p>Clause 15.7.2 Reference should read "[27.1.8]"</p> <p>Clause 15.7.3 Reference should read "[27.2.8]"</p> <p>F: V: T:</p>	Item
16	<p>Clause 16.0 - Direct contractors</p> <p>Attendance on direct contractors</p> <p>In respect of direct contractors the contractor shall:</p> <ol style="list-style-type: none"> 1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials 2. Allow the use of personnel welfare facilities, where provided 3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation 4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right while it remains erected on the site [16.1] <p>Errata by JBCC</p> <p>Clause 16.1.3 Reference should read "[26.5]"</p> <p>F: V: T:</p>	Item
17	<p>Clause 17.0 - Contract instructions</p> <p>? Site instructions</p> <p>Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor ?</p> <p>Errata by JBCC</p> <p>Clause 17.1.3 Reference should read "[13.2.4]"</p> <p>F: V: T:</p>	Item
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Item		Amount
	Completion (A18 - A24)	
18	Clause 18.0 - Interim completion F: V: T:	Item
19	Clause 19.0 - Practical completion User note List with a suitable heading in bold any special requirements for practical completion here. Reference as [19.3.1] F: V: T:	Item
20	Clause 20.0 - Sectional completion User note If sectional completion is applicable, then a clause with a suitable heading in bold should be inserted, or drawing(s) annexed, to define the various sections. Reference as [20.1] Errata by JBCC Clause 20.2.2 Reference should read "[21.6.2]" F: V: T:	Item
21	Clause 21.0 - Defects liability period and final completion Errata by JBCC Clause 21.1 Delete the word "final" in the second last line Reference should read "[21.6.1]" Clause 21.9 Reference should read "[21.4 ; 21.6.1]" F: V: T:	Item
22	Clause 22.0 - Latent defects liability period F: V: T:	Item
23	Clause 23.0 - Revision of date for practical completion Substitution of materials and goods The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8, 23.1 & 2] Errata by JBCC Clause 23.2 Reference should read "[26.7]" Clause 23.2.1 Reference should read "[12.1.7]" F: V: T:	Item
24	Clause 24.0 - Penalty for late or non-completion F: V: T:	Item
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Item		Amount
	<p>Payment (A25 - A27)</p> <p>25 Clause 25.0 - Payment</p> <p>Materials and goods prematurely on site</p> <p>Materials and goods brought onto the site prematurely shall not be authorised for payment [25.3.2]</p> <p>User note</p> <p>Insert ONE of the following two clauses</p> <p>? Materials and goods stored off site</p> <p>Materials and goods stored off site shall not be authorised for payment [25.3.2] ?</p> <p>? Materials and goods stored off site</p> <p>Materials and goods stored off site shall be authorised for payment subject to a guarantee for advance payment being provided to the employer [25.3.2] ?</p> <p>? Fluctuations in costs</p> <p>All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [25.3.4] ?</p> <p>Prices submitted</p> <p>Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of this agreement and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing</p> <p>Errata by JBCC</p> <p>Clause 25.2 The word : "final" in bold in the second line</p> <p>Clause 25.10.3 Reference should read "[25.13 ; 26.10]"</p> <p>New clause 25.12.4 Add the words : "Terminate the agreement [29.14.7] where the listed options [25.12.1-3] have failed</p> <p>F: V: T:</p> <p>26 Clause 26.0 - Adjustment of the contract value and final account</p> <p>User note</p> <p>Insert the following where tenant installations/users requirements may be delayed or omitted</p> <p>? Tenant installations/users requirements delayed</p> <p>There is a possibility that certain works related to tenant installations/users requirements may have to be delayed and may consequently not be executed prior to practical completion</p>	
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	<p>The employer reserves the right to omit such work without compensation to the contractor for loss of profit or any other loss which the contractor may suffer as a result of such omission</p> <p>Should the contractor be instructed to do so he shall execute this work under the conditions pertaining to this agreement on the basis that a separate amount for preliminaries appurtenant to this work (if applicable) is agreed to between the contractor and the principal agent and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of practical completion of the works ?</p> <p>Cost of claims</p> <p>All costs incurred by the contractor in the preparation of claims shall be borne by the contractor. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this agreement [30.6,7] from making a determination on costs</p> <p>The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation in order to assist the principal agent in adjudicating the claim [26.6]</p> <p>Errata by JBCC</p> <p>Clause 26.4.2 Omit the entire clause and renumber thereafter</p> <p>New clause 26.4.3 "Other proven or unavoidable costs"</p> <p>F: V: T:</p>	
27	<p>Clause 27.0 - Recovery of expense and/or loss</p> <p>F: V: T:</p>	Item
28	<p>Suspension and termination (A28 - A29)</p> <p>Clause 28.0 - Suspension by the contractor</p> <p>Errata by JBCC</p> <p>New clause 28.1.5 and renumber thereafter "Or where an agent has failed to act in terms of this agreement [6.4] Clause 28.2 Replace the word "defect" with "default" in the first line</p> <p>F: V: T:</p>	Item
29	<p>Clause 29.0 - Termination</p> <p>Errata by JBCC</p> <p>Clause 29.1.2 Delete the words : "within the period stated [CD]"</p> <p>Clause 29.14.1 Change as follows : "Provide or maintain a guarantee for payment.....[11.4 - 5]"</p> <p>Clause 29.14.2 Reference should read "[12.1.7]"</p>	
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	<p>New clause 29.14.8 "Or where an agent has failed to act in terms of this agreement [6.4]"</p> <p>F: V: T:</p> <p>Dispute resolution (A30)</p>	Item
30	<p>Clause 30.0 - Dispute resolution</p> <p>F: V: T:</p>	Item
31	<p>Agreement</p> <p>The second sentence of the introduction where the parties sign the agreement, namely "Any provision in this agreement..... acceptance by such subcontractor at any time." is deemed to be deleted</p> <p>The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties</p> <p>F: V: T:</p>	Item
32	<p>Contract data</p> <p>Payment of preliminaries</p> <p>Where Option B is applicable and the initial construction period is extended the monthly charge shall be recalculated on the same basis as was initially applied but taking into account the revised construction period and the amounts already paid to the contractor [CD26.0]</p> <p>Adjustment of preliminaries</p> <p>Where the adjustment of preliminaries is in terms of Option A, the construction period and the initial construction period shall be calculated in working days [CD 26.0]</p> <p>Where the adjustment of preliminaries is in terms of Option A and sectional completion is required, the contractor shall provide the principal agent with the division of the categorised amounts into sections. Should the contractor fail to provide such information within the period stipulated, the categorised amounts shall be prorated to the value of each section [CD 26.0]</p> <p>Where the adjustment of preliminaries is required in terms of Option B and sectional completion is required, the contractor shall provide the principal agent with details of the resources required for each section and those that are common to sections. Should the contractor fail to provide such information within the period stipulated, Option A shall apply [CD 26.0]</p> <p>User note</p> <p>Where removal of lateral support insurance is required and stated as such in the contract data for the employer to insure, it is to be noted that it may appear under "no" for the employer to insure where the contractor is to take out the other insurances. In such a case the following clause is to be inserted</p> <p>Removal of lateral support insurance</p>	
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	<p>Whilst it is stated in clause 10.0 of the contract data that the employer will not be responsible for works and other insurances the employer shall nevertheless be responsible for the removal of lateral support insurance in the amount stated ?</p> <p>User note</p> <p>Refer to the user note on page 2 of this Bill No 1 (Preliminaries) and insert the proposed clause in the space provided in the contract data where changes made to the JBCC documentation is to be recorded should the user wish to adhere to the system of inserting amendments, modifications, corrections or supplements to the JBCC documentation under the listed clause headings in this Bill No 1 (Preliminaries)</p> <p>Tenderer's selection</p> <p>Before submission of his tender the contractor is to complete the tenderer's selection in the contract data</p> <p>User note</p> <p>All information for the above requires consultation with the contractor. The principal agent should not pre-select any of the alternatives available to the contractor</p> <p>Note 4 on page 10 of the contract data</p> <p>Note 4 on page 10 of the contract data which relates to any benefit or right in favour of any subcontractor shall be deemed to be deleted</p> <p>F: V: T:</p> <p>SECTION B: PRELIMINARIES</p> <p>Interpretation (B1)</p>	
33	<p>Clause 1.1 - Definitions</p> <p>F: V: T:</p>	Item
34	<p>Clause 1.2 - Interpretation</p> <p>F: V: T:</p>	Item
	Documents (B2)	
35	<p>Clause 2.1 - Checking of documents</p> <p>F: V: T:</p>	Item
36	<p>Clause 2.2 - Provisional bills of quantities</p> <p>User Note</p> <p>Check 'wet trades' included in the bills of quantities and edit the following clause as may be necessary</p> <p>? Multiple procurement</p> <p>These bills of quantities are in multiple procurement format ie the 'wet trades' - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally (fully?) measured and the subsequent trades are budgetary allowances and/or provisional sums ?</p> <p>F: V: T:</p>	Item
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37	<p>Clause 2.3 - Availability of construction information</p> <p>Budgetary allowances and provisional sums</p> <p>The budgetary allowances ?and/or provisional sums allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of subcontractors during the construction period</p> <p>F: V: T:</p>	Item
38	<p>Clause 2.4 - Ordering of materials and goods</p> <p>F: V: T:</p> <p>Previous work and adjoining properties (B3)</p>	Item
39	<p>Clause 3.1 - Previous work - dimensional accuracy</p> <p>F: V: T:</p>	Item
40	<p>Clause 3.2 - Previous work - defects</p> <p>F: V: T:</p>	Item
41	<p>Clause 3.3 - Inspection of adjoining properties</p> <p>F: V: T:</p> <p>The Site (B4)</p>	Item
42	<p>Clause 4.1 - Defined works area</p> <p>F: V: T:</p>	Item
43	<p>Clause 4.2 - Handover of site in stages</p> <p>F: V: T:</p>	Item
44	<p>Clause 4.3 - Enclosure of the works</p> <p>F: V: T:</p>	Item
45	<p>Clause 4.4 - Geotechnical investigation</p> <p>F: V: T:</p>	Item
46	<p>Clause 4.5 - Encroachments</p> <p>F: V: T:</p>	Item
47	<p>Clause 4.6 - Existing premises occupied</p> <p>F: V: T:</p>	Item
48	<p>Clause 4.7 - Services - known</p> <p>F: V: T:</p>	Item
49	<p>Clause 4.8 - Protection of trees and/or relevant natural features</p> <p>F: V: T:</p> <p>Management of Contract (B5)</p>	Item
50	<p>Clause 5.1 - Management of the works</p> <p>F: V: T:</p>	Item
51	<p>Clause 5.2 - Progress meetings</p> <p>F: V: T:</p>	Item
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52	Clause 5.3 - Technical meetings F: V: T: Samples, shop drawings and manufacturer's instructions (B6)	Item
53	Clause 6.1 - Samples of materials F: V: T:	Item
54	Clause 6.2 - Workmanship samples F: V: T:	Item
55	Clause 6.3 - Shop drawings F: V: T:	Item
56	Clause 6.4 - Compliance with manufacturer's instructions F: V: T: Deposits and fees (B7)	Item
57	Clause 7.1 - Deposits and fees F: V: T: Temporary services (B8)	Item
58	Clause 8.1 - Water F: V: T:	Item
59	Clause 8.2 - Electricity F: V: T:	Item
60	Clause 8.3 - Ablution and welfare facilities F: V: T:	Item
61	Clause 8.4 - Communication facilities F: V: T: Prime cost amounts (B9)	Item
62	Clause 9.1 - Responsibility for prime cost amounts User note Where details of materials included in prime cost amounts are NOT readily available and it is therefore not possible for the contractor to price for waste, the relevant prime cost amount shall be inserted in the bills of quantities as a lump sum with the contractor being given the opportunity to separately price his overheads and profit and for taking delivery, etc as called for in this clause 9.1 of the preliminaries. In such case the fixing only or installation only of the relevant materials shall be provisionally measured for the contractor to price and shall be re-measured upon completion Where details of materials for which prime cost amounts are to be allowed ARE readily available, the quantity surveyor may elect to insert the relevant prime cost amount in measured items, which measured items shall contain sufficient detail for the contractor to price for fixing and installation, waste, etc F: V: T:	Item
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	Attendance on subcontractors (B10)	
63	<p>Clause 10.1 - General attendance</p> <p>User note</p> <p>General attendance is defined as being the duties of the contractor in terms of clause 12.2 of the JBCC n/s subcontract agreement</p> <p>F: V: T:</p>	Item
64	<p>Clause 10.2 - Special attendance</p> <p>User note</p> <p>Insert details after the provisional sums (nominated or selected subcontract amount) for any special attendance where specifically required for each subcontractor separately</p> <p>It is important to note that general attendance only requires the contractor to 'permit the subcontractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right while it remains erected on the site' (refer to 12.2.13 of the JBCC n/s subcontract agreement). Many subcontractors qualify their tenders to exclude scaffolding and/or hoisting facilities. Especially scaffolding could be an expensive item and it may be necessary in order to avoid claims to require the contractor to provide for the extended use of scaffolding for specific subcontracts within a description of 'special attendance' in the applicable bill</p> <p>F: V: T:</p>	Item
	General (B11)	
65	<p>Clause 11.1 - Protection of the works</p> <p>F: V: T:</p>	Item
66	<p>Clause 11.2 - Protection/isolation of existing/sectionally occupied works</p> <p>F: V: T:</p>	Item
67	<p>Clause 11.3 - Security of the works</p> <p>F: V: T:</p>	Item
68	<p>Clause 11.4 - Notice before covering work</p> <p>F: V: T:</p>	Item
69	<p>Clause 11.5 - Disturbance</p> <p>F: V: T:</p>	Item
70	<p>Clause 11.6 - Environmental disturbance</p> <p>F: V: T:</p>	Item
71	<p>Clause 11.7 - Works cleaning and clearing</p> <p>F: V: T:</p>	Item
72	<p>Clause 11.8 - Vermin</p> <p>F: V: T:</p>	Item
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73	<p>Clause 11.9 - Overhand work</p> <p>F: V: T:</p>	Item
74	<p>Clause 11.10 - Tenant installations by direct contractors</p> <p>F: V: T:</p>	Item
75	<p>Clause 11.11 - Advertising</p> <p>F: V: T:</p>	Item
	Preliminaries Schedule (B12)	
76	<p>Information for completion of schedule</p> <p>Information necessary for elections and completion of those clauses contained in the preliminaries schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract</p> <p>12.1 - Provisional bills of quantities [2.2]</p> <p>The quantities are provisional ? Yes/No ?</p> <p>12.2 - Availability of construction information [2.3]</p> <p>Construction documentation is complete? Yes/No ?</p> <p>12.3 - Previous work - dimensional accuracy [3.1]</p> <p>12.4 - Previous work - defects [3.2]</p> <p>12.5 - Inspection of adjoining properties [3.3]</p> <p>12.6 - Defined works area [4.1]</p> <p>User Note</p> <p>Describe the restrictions to the site or areas that the contractor may not occupy. Reference as [PBA 12.1.4]</p> <p>12.7 - Handover of site in stages [4.2]</p> <p>User note</p> <p>Describe in detail where handover of the site to the contractor is done in stages</p> <p>12.8 - Enclosure of the works [4.3]</p> <p>12.9 - Geotechnical investigation [4.4]</p> <p>User note</p> <p>Insert the following clause should a geotechnical investigation report be available and insert the following annexure</p> <p>?Refer to Annexure ? For the results of a geotechnical investigation report ?</p> <p>12.10 Existing premises occupied [4.6]</p> <p>User note</p> <p>If the existing premises are occupied state it here and describe the detail and/or specific requirements. Reference as [PBA 12.1.2]</p>	
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<p>12.11 - Services - known [4.7]</p> <p>User note</p> <p>Insert details should the contractor be responsible for the preservation of known services. Reference as [PBA 12.1.3]</p> <p>12.12 - Protection of trees and/or relevant natural features [4.8]</p> <p>User note</p> <p>Expand clause 4.8 of the Preliminaries should there be specific requirements for the preservation of trees or relevant natural features. Reference as [PBA 12.1.3]</p> <p>12.13 - Water [8.1]</p> <p>Option A (by contractor) ? Yes/No ?</p> <p>Option B (by employer - free of charge) ? Yes/No ?</p> <p>Option C (by employer - metered) ? Yes/No ?</p> <p>12.14 - Electricity [8.2]</p> <p>Option A (by contractor) ? Yes/No ?</p> <p>Option B (by employer - free of charge) ? Yes/No ?</p> <p>Option C (by employer - metered) ? Yes/No ?</p> <p>12.15 - Ablution and welfare facilities [8.3]</p> <p>Option A (by contractor) ? Yes/No ?</p> <p>Option B (by employer) ? Yes/No ?</p> <p>12.16 - Communication facilities [8.4]</p> <p>12.17 - Protection of the works [11.1]</p> <p>12.18 - Protection/isolation of existing/sectionally occupied works [11.2]</p> <p>Protection/isolation is required ? Yes/No ?</p> <p>12.19 - Disturbance [11.5]</p> <p>User note</p> <p>The following clause may be used should "disturbance" [11.5] need to be extended</p> <p>? All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever ?</p> <p>12.20 - Environmental disturbance [11.6]</p> <p>? Controlling all forms of pollution</p>	
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Item		Amount
	<p>The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the site during the construction period due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc</p> <p>The contractor is to ensure that all roads which border the site and is used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works ?</p> <p>? Environmental management plan</p> <p>The employer has prepared an environmental management plan (EMP) (refer to Annexure ? for a copy of the relevant plan). The contractor shall price opposite this item for compliance with all the requirements of such EMP ?</p> <p>F: V: T:</p> <p>SECTION C: SPECIFIC PRELIMINARIES</p> <p>User note</p> <p>Users shall avoid inserting in Section C items which may be construed as amending, modifying, correcting or supplementing the provisions of the JBCC Principal Building Agreement. Such amendments, modifications, corrections or supplements should be kept to the absolute minimum and should be inserted in the space provided in the contract data or in a single referenced annexure as stipulated in the contract data or, when taking into account the methodology suggested in the user note on page 2 of this Bill No. 1, should be inserted in Section A under the recited clause headings of the JBCC Principal Building Agreement in this Bill No. 1</p> <p>User note : Selected examples of typical clauses are provided to indicate ways of describing such clauses. Users must delete, adapt or add to these examples to suit their particular circumstances</p> <p>Specific Preliminaries</p>	
77	<p>Warranties for materials and workmanship</p> <p>Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer , from the entity supplying the materials and/or doing the work and shall deliver same to the principal agent on the final completion of the contract</p> <p>The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so.</p> <p>The warranty will not be enforced if the work is damaged by defects in the execution of the works , in which case the responsibility for replacement shall rest entirely with the contractor</p> <p>F: V: T:</p>	Item
78	Overtime	
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Item		Amount
	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer	Item
	F: V: T:	
79	Co-operation of the contractor for cost management	
	It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget	Item
	F: V: T:	
80	Overloading	
	The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense	Item
	F: V: T:	
81	Propping of floors below	
	The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor	Item
	F: V: T:	
82	Testing of flat roof waterproofing for watertightness	
	Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent , flooded with water and kept 'ponde for at least forty (40) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing	Item
	F: V: T:	
83	Green star building certification	
	User note	
	Insert the provisions called for by the relevant green star consultant should it be a requirement that the project be submitted for green star certification	Item
	F: V: T:	
84	Broad based black economic empowerment (BBBEE)	
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	Preliminaries	

Item		Amount
	<p>Tenders submitted will be evaluated taking into account their empowerment rating</p> <p>The employer will be monitoring the black economic empowerment status of the contractor throughout the execution of the works</p> <p>The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating</p> <p>F: V: T:</p>	Item
85	<p>Advertising rights</p> <p>The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. Position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in the meeting of his obligations under this agreement</p> <p>F: V: T:</p>	Item
86	<p>Confidentiality</p> <p>The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works</p> <p>No information regarding this project shall be published or disclosed without the prior written consent of the employer</p> <p>F: V: T:</p>	Item
87	<p>Media releases</p> <p>All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer</p> <p>The contractor together with his subcontractors shall not, without the prior written consent of the employer, cause any statement or advertisement to be printed, screened or aired by the media</p> <p>F: V: T:</p>	Item
	<p>SUMMARY OF CATEGORIES</p> <p>Category : Fixed R..... Category : Value R..... Category : Time R.....</p>	
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SECTION NO. 2

ALTERATIONS AND DEMOLITIONS (PROVISIONAL)

Item	Unit	Quantity	Rate	Amount
SECTION NO. 2 ALTERATIONS AND DEMOLITIONS (PROVISIONAL) BILL NO. 1 ALTERATIONS AND DEMOLITIONS PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles SUPPLEMENTARY PREAMBLES The Contractor will be held solely responsible for any damage to persons and property, for the safety of the new and existing structure throughout the whole of the contract and must make good at his own expense any damage that may occur. Old materials described as "carefully take out, set aside for re-use and later refix in new position" are to be carefully removed, stored and protected from injury, made good as required and if broken or damaged through taking out, removing, storage, etc, are to be replaced by the Contractor at his own expense. Tenderers are advised to inspect these materials to ascertain their condition and allow accordingly for this in their pricing. Old materials, which are to become the property of the Contractor as they are pulled down, together with all building debris from any cause whatsoever, are to be immediately carted away and the site left clean and unencumbered. Allow for watering the works sufficiently to prevent nuisance from dust. Allow for giving notice to local or other authorities for disconnecting electric light, water and drainage mains and removing telephone wires, etc, and pay all fees in connection therewith and afford every facility to the workmen carrying out this work. All materials in this section are measured as new except where old material is specifically mentioned as being reused.				
Carried to Collection			R	
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Alterations And Demolitions				

Item	Unit	Quantity	Rate	Amount
<p>Old materials, if sound and suitable and approved by the Architect, may be re-used in the new structure. This applies particularly to timber which may be re-used for joists, brundering, fittings, etc and broken bricks and other similar material which may be used as filling and hardcore.</p> <p>Wherever old materials are used instead of the new materials measured, an adjustment will be made by the Quantity Surveyor in the final settlement of accounts by deducting the net cost of the new materials and crediting the Contractor with the amount, if any, allowed by him for the old materials.</p> <p>When pricing tenderers are to allow as follows:</p> <p>Where door and window openings, etc, are specified to be filled in, or where jambs, cills, etc are specified to be built up, brickwork shall be of hard burnt clay stock bricks in 5.1 cement mortar unless otherwise specified, cut, toothed and bonded into existing brickwork and pinned up as required with slates or other hard materials. Brickwork built to fair face or in facings is to be of Travertine facebricks and pointed to match existing. Plaster is to be 5.1 cement plaster unless otherwise specified.</p> <p>Where lintels are specified as reinforced concrete the prices are to include for breaking out brickwork over for and inserting cement concrete (20MPa) lintol with 230mm bearing on each end and 254mm deep and reinforced with and including one 12mm diameter mild steel rod for each half brick thickness of wall and including formwork. The steel rods are to be hooked at ends and embedded 25mm up from bottom of lintols. Lintols exceeding 1370mm span to be similarly reinforced but with 20mm diameter mild steel rods.</p> <p>The term "take out" includes all work taken out, taken up, taken down, taken off, etc ; the term "break up" includes all work broken up, broken down, broken off, etc and the term "hack off" includes all work hacked off, hacked up, hacked down, etc.</p> <p>The term "make good" is to include all labour and material required to match existing work.</p> <p>The contractors unit rates must allow for disposal of disposal or carting away of material, fittings or fixtures so described to a prescribed dumping site as instructed by the Architect</p> <p>DEMOLISH AND REMOVE</p> <p>Lean-to roof</p>				
1	Roof, size 11600 x 5000 wide with steel frame and posts	No	1	
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Alterations And Demolitions				

Item		Unit	Quantity	Rate	Amount
	Ablution building				
2	Break down temporary building, size approximately 4500 x 3000 x 3000mm high including breaking out surface beds and foundations, make up levels with G5 quality imported gravel compacted in 150mm layers to 95% Modified AASTHO and leave gravel surface clean and level	No	1		
	REMOVAL OF EXISTING WORK				
	Break up, cart away and dispose of at an approved dumping site to be located by the contractor				
3	Break up 150mm thick reinforced concrete surface beds	m ²	39		
4	Carefully remove eroded and cracked individual bricks in outer face of internal and external walls in small quantities, clean and prepare to receive new bricks to match existing (new bricks elsewhere measured)	m ²	40		
5	Break out 230mm Thick walls	m ²	20		
6	Break out 350 to 380mm Thick walls	m ²	25		
7	Break out 550 to 580mm Thick walls (ZC)	m ²	1		
8	Sawcut through 150mm thick reinforced concrete surface beds	m	78		
9	Take down 70 x 75mm SA Pine purlins	m	5 245		
10	Take up brick paving	m ²	80		
	PREPARATORY WORK TO EXISTING SURFACES				
	Preparation and repair of surfaces				
11	High pressure cleaning of brickwork or plastered walls to remove algae and moulds using 5% diluted hydrochloric acid or other equally approved chemical mixture, applied in such a manner as not to damage the face of bricks or mortar	m ²	3 591		
12	Mechanically scabble face of brickwork to remove patches of paint using a chisel, wire brush or other approved mechanical means	m ²	50		
13	Filling and pointing of concave horizontal and vertical joints in brick walls with Class II mortar	m ²	50		
	Carried to Collection			R	
	Section No. 2				
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	Alterations And Demolitions				

Item		Unit	Quantity	Rate	Amount
	ALTERATIONS				
	Repairs to existing structures				
14	Repair surface of spalling steel floated surface bed at one edge of sawcuts and expansion joints with Sika concrete repair epoxy Including forming straight and smooth vertical and horizontal edges	m	90		
	Take down, service and fix in new positions				
15	Mild steel roller shutter doors, size 2500 x 3000mm high	No	2		
	THE FOLLOWING IN ADDITION OF GROUND BEAM AND BASES				
	The following in additions to raft floor (ZC)				
16	Excavate in earth not exceeding 2m deep and deposit in spoil heaps on site	m ³	11		
17	Extra over excavations for carting away excavated material from spoil heaps to an approved disposal site to be located by the contractor	m ³	11		
18	Risk of collapse of excavations to sides of trench excavations not exceeding 1,5m deep	m ²	55		
19	Backfilling to trenches selected from excavated material on site	m ³	18		
20	Compaction of natural or excavated ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Modified AASHTO density	m ²	34		
21	Soil insecticide in accordance with SANS 5859 to bottoms and sides of trenches	m ²	130		
22	30MPa Mass concrete cast against excavated surfaces in bases	m ³	2		
23	30MPa Reinforced concrete cast in formwork for ground beams	m ³	5		
24	Finishing top surfaces of concrete surface bed smooth with a steel trowel	m ²	34		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 1				
	Alterations And Demolitions				

Item		Unit	Quantity	Rate	Amount
25	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes	Sets	2		
26	10mm Diameter bars of high tensile steel reinforcement to structural concrete work	Tonnes	0.25		
27	12mm Diameter bars of high tensile steel reinforcement to structural concrete work	Tonnes	0.30		
28	One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape under surface beds	m ²	27		
29	Smooth formwork (Degree of Accuracy II) to sides of outer face of ground beam	m ²	17		
30	One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B) in walls	m ²	8		
31	Form opening in 600mm thick brickwall for 110mm rain pipe including building opening closed around pipe to match existing finishes	No	21		
32	Form opening in 600mm thick brickwall for 200mm rain pipe including building opening closed around pipe to match existing finishes	No	9		
THE FOLLOWING IN ALTERATION AND COMPLETION OF RAFT FLOORS AND LIFT PIT					
The following in alterations and completion of raft floors and lift pit					
33	Excavate in earth not exceeding 2m deep and deposit in spoil heaps on site	m ³	35		
34	Extra over excavations for carting away excavated material from spoil heaps to an approved disposal site to be located by the contractor	m ³	35		
35	Filling of G5 natural gravel material supplied by the contractor, compacted to 95% Mod AASHTO density under floors	m ³	44		
Carried to Collection				R	
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Alterations And Demolitions					

Item		Unit	Quantity	Rate	Amount
36	Compaction of natural or excavated ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Modified AASHTO density	m ²	155		
37	10Mpa Mass concrete blinding	m ³	0.37		
38	10Mpa Mass concrete in making up levels	m ³	15		
39	30MPa reinforced concrete with Xypex or other approved crystalline waterproofing additive cast against excavated surfaces	m ³	42		
40	Finishing top surfaces of concrete surface bed smooth with a power float	m ²	147		
41	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes	Sets	3		
42	Expansion joints with 10mm closed cell expanded polyethylene between vertical concrete and brick surfaces	m ²	13		
43	10mm Thick bitumen impregnated softboard set vertically in lining to concrete	m ²	19		
44	Rough formwork to outer sides of ground beams	m ²	78		
45	Smooth formwork to sides of walls	m ²	14		
46	8mm Diameter bars of mild steel reinforcement to structural concrete work	Tonnes	0.15		
47	10mm Diameter bars of high tensile steel reinforcement to structural concrete work	Tonnes	0.50		
48	12mm Diameter bars of high tensile steel reinforcement to structural concrete work	Tonnes	0.80		
49	16mm Diameter bars of high tensile steel reinforcement to structural concrete work	Tonnes	0.20		
50	16mm Diameter high tensile steel dowel bars 600mm long with one end embedded 300mm deep in side of concrete at surface bed and other end greased and wrapped in polythene sheeting, including hole through formwork	No	26		
51	Type 245 fabric reinforcement in concrete surface beds	m ²	143		
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Alterations And Demolitions					

Item		Unit	Quantity	Rate	Amount
52	One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape under surface beds	m ²	178		
53	4mm Thick approved bituminous torch-on waterproofing with a ten year guarantee in tanking	m ²	33		
<p>The Contractor will be held solely responsible for checking all floor levels and dimensions in the existing building in order that the new extensions may be correctly lined up. Should any discrepancies be found in the Architect's drawings he should be asked for a decision before continuing with the work.</p>					
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SECTION NO. 2
ALTERATIONS AND DEMOLITIONS (PROVISIONAL)
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SECTION NO. 3

MAIN BUILDING

Item	Unit	Quantity	Rate	Amount
SECTION NO. 3 MAIN BUILDING BILL NO. 1 EARTHWORKS (PROVISIONAL) PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> EXCAVATION, FILLING, ETC OTHER THAN BULK Excavation in earth not exceeding 2m deep				
1	Excavate in holes (b)	m ³	5	
2	Excavate in trenches (b)	m ³	4	
Bedding				
3	50mm Thick bed of clean river sand bedding	m ³	1	
Compaction of ground surfaces				
4	Compaction of natural or excavated ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m ²	20	
Sundries				
5	Soil poisoning under floors and bottom and sides of the trenches	m ²	35	
6	Compaction density test	No	2	
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Bill No. 1				
Earthworks (provisional)				

Item	Unit	Quantity	Rate	Amount
SECTION NO. 3 MAIN BUILDING BILL NO. 2 CONCRETE, FORMWORK AND REINFORCEMENT PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles EXPANSION JOINTS IN EXISTING CONCRETE Joints in concrete				
1	Glutone or other approved bond breaker to edges of concrete surfaces	m ²	7	
2	3 x 50mm deep saw cut groove into top of concrete	m	2 428	
3	10 x 10mm Deep saw cut groove cut over previously cut 3mm wide sawcut in top of concrete	m	2 428	
4	Form 650mm girth Z-shaped construction joint in concrete raft ground beams	m	11	
Carried To Section Summary			R	
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Bill No. 2				
Concrete, Formwork And Reinforcement				

Item	Unit	Quantity	Rate	Amount
SECTION NO. 3 MAIN BUILDING BILL NO. 3 PRECAST CONCRETE PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles PRECAST CONCRETE COPINGS ETC Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing				
1				
Algoa Cement Wall Coping Dual 320 or other approved copings, size 320 x 95mm high overall twice weathered on top to 60mm thick along both edges, with drip groove in bottom along both edges	m	97		
2				
Extra over coping for fair returned stopped end block	No	2		
3				
Algoa Cement Type 1 or other approved window cills, size 200 x 75mm Thick overall, rebated and weathered, with drip groove in bottom	m	172		
Carried To Section Summary			R	
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Bill No. 3				
Precast Concrete				

Item		Unit	Quantity	Rate	Amount
SECTION NO. 3 MAIN BUILDING BILL NO. 4 MASONRY PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles Brickwork of NFX bricks (28 MPa minimum compressive strength) in class II mortar in loadbearing walls etc in small quantities in patching					
1	230mm Thick walls	m ²	41		
2	330mm Thick walls (ZA)	m ²	10		
3	350 to 380mm Thick walls (EN)	m ²	133		
4	580mm Thick walls (ZC)	m ²	72		
5	580mm Thick cavity walls formed of two 230mm thick brick skins with wire butterflies built in at 4 per m2 (ZC)	m ²	22		
6	766 x 840 x 5050mm High pilasters encasing steel columns (ZC)	No	7		
7	Tooththing and bonding new 580mm Thick wall to existing including cutting out bricks in existing wall (ZC)	m ²	3		
FACINGS FBX facing bricks to match existing including pointing with 10 mm square recessed joints					
8	Extra over ordinary brickwork for facings (ZC)	m ²	321		
9	230mm Wide facebrick on end arched lintel over openings (ZC)	m ²	19		
10	FBX facing bricks in multiple colours in decorative patterns in small quantities including pointing with 10 mm square recessed joints	m ²	33		
11	230mm Wide facebrick roller course coping	m	11		
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Bill No. 4
Masonry

Item	Unit	Quantity	Rate	Amount
SECTION NO. 3 MAIN BUILDING BILL NO. 5 WATERPROOFING PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> SUPPLEMENTARY PREAMBLES <p>Waterproofing of roofs, parapets, sumps, etc shall be laid under a ten year guarantee. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p> MEMBRANE WATERPROOFING Damp-proof sheeting				
1	250 Micron dampproof membrane beneath reinforced concrete floors	m ²	70	
2	375 Micron embossed black polyethylene sheeting in accordance with SABS 952 Type B lapped 150 mm at ends and full widths of walls at angles and building into walls as dampproof course	m ²	30	
4mm Thick approved bituminous torch-on waterproofing with a ten year guarantee				
3	In vertical linings to parapet brickwork or concrete	m ²	49	
4	Internal linings to mild steel box gutters of 650mm girth	m	388	
5	120mm Cover flashing of 4mm bituminous torch-on waterproofing (b)	m	323	
SEALANTS Polyurethane sealing compound including backing cord, bond breaker, primer, etc				
6	5 x 10mm In joints in concrete floors	m	478	
7	5 x 10mm In raking joints at headwall counter flashings	m	54	
Carried to Collection			R	
Section No. 3 Bill No. 5 Waterproofing				

Item		Unit	Quantity	Rate	Amount
8	10 x 10mm In joints in floors including raking out expansion joint filler as necessary	m	473		
	Silicone				
	The following work at a height up to but not exceeding 10m high				
9	Silicone sealing around perimeter of double doors (a)	m	290		
10	Silicone sealing around perimeter of double doors (a)	m	180		
Carried to Collection				R	
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Bill No. 5					
Waterproofing					

BILL NO. 5
WATERPROOFING
COLLECTION

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Bill No. 5
Waterproofing

Item	Unit	Quantity	Rate	Amount
SECTION NO. 3 MAIN BUILDING BILL NO. 6 ROOF COVERINGS PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles ROOF COVERINGS 0,8mm Thick Zinc alum corrugated steel roof sheeting and accessories, fixed to steel purlins (see Structural Engineer's Drawing No J161-05-S02 Notes)				
1	Sheeting to roofs not exceeding 25° fixed with hook bolts, including plastic washers, etc	m²	3 226	
2	Cladding fixed vertically with hook bolts, including plastic washers, etc	m²	24	
3	Ridge flashing 462mm Girth three times bent, notched on site to suit corrugated profile sheeting	m	246	
4	Headwall flashing 310mm girth twice bent fixed raking	m	41	
5	Gable flashing 400mm girth three times bent fixed raking	m	28	
6	Cover flashing 12 x 30 x 112mm grouted into and including forming raking cut into plastered brickwork	m	41	
Polyclosures				
7	50mm Thick high density rubber polyclosure with Corrugated 76 profile	m	454	
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Section No. 3				
Bill No. 6				
Roof Coverings				

Item		Unit	Quantity	Rate	Amount
INSULATION					
Insulation tested for conformance with SABS 1381:Part IV-1985,with a class one fire rating in accordance with accordance with SABS 0177:Part III-1981 and BS 476 part 5,6,7,					
40mm Thick Lambdaboard or other approved roof insulation, fire tested in accordance with SANS 428:2012, and fixed concurrently with and directly below roof sheeting (elsewhere measured) on top of steel purlins in the same direction as the sheeting and in accordance with the manufacturer`s instructions					
8	Insulation sheeting laid over purlins	m ²	3 202		
9	Insulation sheeting fixed vertically	m ²	24		
SHEET FLASHINGS, LININGS, COPINGS, ETC					
0,6mm Thick sheet aluminium with 150mm laps					
10	Cappings 530mm girth four times bent along length, with 150mm lapped riveted and sealed joints, sprung over and including suitable galvanised steel brackets at 500mm centres, plugged to brickwork	Rate only	0		
Carried to Collection				R	
Section No. 3					
Bill No. 6					
Roof Coverings					

<p>BILL NO. 6</p> <p>ROOF COVERINGS</p> <p>COLLECTION</p>	<p>Brought Forward from Page</p>	<p>Page No</p>	<p>51</p>	<p>52</p>
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<p>BILL NO. 6</p> <p>ROOF COVERINGS</p> <p>COLLECTION</p>	<p>Brought Forward from Page</p>	<p>Page No</p>	<p>51</p>	<p>52</p>
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<p>BILL NO. 6</p> <p>ROOF COVERINGS</p> <p>COLLECTION</p>	<p>Brought Forward from Page</p>	<p>Page No</p>	<p>51</p>	<p>52</p>
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Item		Unit	Quantity	Rate	Amount
SECTION NO. 3 MAIN BUILDING BILL NO. 7 CARPENTRY AND JOINERY PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles STRUCTURAL TIMBERWORK Sawn SA Pine Grade 7					
1	76 x 114mm Rafters	m	5		
2	38mm Thick shutterply stair landings bolted with two M8 bolts at 400mm centres in both directions to steelwork	m ²	15		
3	38 x 320 x 1650mm Long shutterply stair treads bolted with two M8 bolts at 400mm centres to steelwork	No	50		
EAVES, VERGES, ETC High density plain fibre-cement fascias and barge boards					
4	300 x 12mm Fascias and barge boards, including aluminium H-profile jointing strips	m	14		
SKIRTINGS Wrought Meranti					
5	19 x 76mm Skirtings, plugged	m	438		
DOORS ETC Solid core flush panel door with 1.2mm Formica laminated facing on both sides including timber double top and bottom rails, lock blocks and hinge blocks fitted to sides					
6	40mm Door, size 839 x 1770mm high as Door Schedule D-04	No	24		
Carried to Collection				R	
Section No. 3 Bill No. 7 Carpentry And Joinery					

Item		Unit	Quantity	Rate	Amount
	Heavy duty solid core door with Supawood lining both sides and Meranti edgings to all edges, suitable for indoor use with 20mm under cut				
7	40mm Door, size 844 x 2340mm high as Door Schedules D-05 and D-07	No	10		
8	40mm Door, size 844 x 2080mm high as Door Schedules D-10	No	6		
	Purpose made wrought Meranti solid core timber door with birch plywood both sides and Meranti edging to all four edges, suitable for external use				
9	40mm Door, size 813 x 2085mm high as Door Schedules D-09 and D-13	No	2		
10	40mm Door, size 970 x 2085mm high as Door Schedule D-06	No	5		
11	40mm Double door, size 1525 x 2085mm high with and including two 200 x 300mm high aluminium framed glazed panels set into door leaves as Door Schedule D-08	No	1		
	FRAMED FRAMES, MULLIONS, TRANSOMS, ETC				
	Wrought Meranti				
12	76 x 102mm Single rebated framed door frame	m	185		
13	70 x 90mm Single rebated framed door frame with fanlight above, size overall as 929 x 2340mm with and including charcoal coloured aluminium vent all as Door Schedules D-05 and D07	No	10		
14	70 x 90mm Single rebated framed door frame with fanlight above, size overall as 1055 x 2340mm high with and including charcoal coloured aluminium vent, size 970 x 170mm all as Door Schedule D-06	No	5		
	<div style="text-align:right; margin-right: 10px;">Carried to Collection</div>			R	
<div>Section No. 3</div> <div>Bill No. 7</div> <div>Carpentry And Joinery</div>					

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BILL NO. 7
CARPENTRY AND JOINERY
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Section No. 3
Bill No. 7
Carpentry And Joinery

Item	Unit	Quantity	Rate	Amount
SECTION NO. 3 MAIN BUILDING BILL NO. 8 CEILINGS, PARTITIONING AND ACCESS FLOORING PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> SUPPLEMENTARY PREAMBLES CEILINGS Ceilings <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> Fixing <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> Bulkheads <p>Unless otherwise described bulkheads shall be deemed to be horizontal along the length</p> NAILED-UP CEILINGS 9mm Taper-edge gypsum plasterboard with taped and skimmed flush joints				
1				
Ceilings including 38 x 50mm sawn softwood bandering at 400mm centres and cross bandering at edges and against walls	m ²	144		
2				
Vertical portion of bulkhead 150mm high including 38 x 50mm sawn softwood bandering at 400mm centres, joined with joiner sections and hung with suspension members	m	96		
3				
30 x 30 x 2mm Thick anodised aluminium angle fixed to plasterboard edges and edges and corners	m	192		
4				
Opening for 200mm diameter downlighter	No	8		
Carried To Section Summary			R	
Section No. 3				
Bill No. 8				
Ceilings, Partitioning And Access Flooring				

Item	Unit	Quantity	Rate	Amount
SECTION NO. 3				
MAIN BUILDING				
BILL NO. 9				
STRUCTURAL STEELWORK (PROVISIONAL)				
PREAMBLES				
For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles				
Note:				
See Alterations for removal of steel items for treatment and return				
STEEL STANCHIONS AND BEAMS				
Stanchions				
1	305 x 305 x 137kg/m I-Section fixed to base plates and cap plates to include holes, bolts, nuts, washers and bolting.	Tonnes	0.50	
2	Cast steel corbelled column cap, size approximately 200 x 175 x 250mm high with curved and sloping front face as Structural Engineer's Drawing No J133-S01 Rev 10 Section A01 and to match existing	No	2	
Beams				
3	305 x 165 x 54kg/m2 I Section Beam	Tonnes	0.50	
Trusses				
4	Triangular steel truss 12 580mm span x 2 390mm high overall, with T sections top chord members and T section diagonal members, bolted to steel pads and including holes, bolts and bolting	Tonnes	11.00	
Purlins				
5	60 x 60 x 90mm Long equal angle section cleat twice bolted	Tonnes	0.30	
6	75 x 50 x 20 x 2,5mm Lipped channel purlin	Tonnes	0.25	
7	125 x 50 x 20 x 2,5mm Lipped channel purlin	Tonnes	37.86	
Carried to Collection			R	
Section No. 3				
Bill No. 9				
Structural Steelwork (provisional)				

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BILL NO. 9

STRUCTURAL STEELWORK (PROVISIONAL)

COLLECTION

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Section No. 3

Bill No. 9

Structural Steelwork (provisional)

Item		Unit	Quantity	Rate	Amount
SECTION NO. 3 MAIN BUILDING BILL NO. 10 METALWORK PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles GALVANISED STEEL SCREENS AND GATES Welded mild steel screens to plain openings					
1	Palisade style screen as per architect's detail	m ²	12		
2	10 x 220mm Long chemical anchors bolted to brickwork	No	30		
Security gates					
3	Gate, size 900 x 2100mm high as per architect's detail	No	1		
GALVANISED STEEL BALUSTRADING					
Welded and bolted purpose made balustrading to staircases					
4	Horizontal and raking balustrading and handrails comprising black painted square hollow section elements with vertical stainless steel cables and 50mm hardwood timber handrails fixed with brackets to side, all as per architect's detail	m	110		
STEEL ROLLER SHUTTERS ETC					
Roll-Up Serranda Series 2000 powder coated, manually operated 75 x 0,8mm thick endlocked slatted curtain roller shutter, solid slatted with, 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 with lock, fixed to brickwork jambs and concrete beam, the shutter chain operated					
5	Roller shutter door for opening size 3900 x 2975mm high with overhead box 360mm high including canopy cover	No	1		
Carried to Collection				R	
Section No. 3					
Bill No. 10					
Metalwork					

Item		Unit	Quantity	Rate	Amount
STAINLESS STEEL MINOR WORKS					
Cages					
6	Cage, size 300 x 250 x 250mm high with angle section frame and mesh covering fixed to brickwork or concrete	No	8		
7	Cage, size 400 x 300 x 400mm high with angle section frame and mesh covering fixed to brickwork or concrete	No	1		
ALUMINIUM WINDOWS, DOORS, ETC					
Matt black colour coated anodised aluminium window units as per approved system, complete with sub frames, ironmongery, frosted safety glass, sealing, etc including horizontal burglar bars to opening leaves and fixing to brickwork or concrete					
8	Purpose made window, size 600 x 600mm high, top hung but with frosted glass, all as Window Schedule W01	No	14		
9	Purpose made eight fixed panel window, size 3140 x 2055mm high, all as Window Schedule W02	No	15		
10	Purpose made four fixed panel window, size 1220 x 1920mm high, all as Window Schedule W03	No	9		
11	Purpose made six fixed panel window, size 1190 x 2740mm high, all as Window Schedule W04	No	21		
12	Purpose made twenty four fixed panel window, size 2900 x 4030mm high, all as Window Schedule W05	No	4		
13	Purpose made four fixed panel window, size 1200 x 1800mm high, all as Window Schedule W06	No	4		
14	Purpose made four fixed panel window, size 1220 x 1555mm high, all as Window Schedule W07	No	12		
15	Purpose made eight fixed panel semi-circular window, size 3110 x 1555mm high, all as Window Schedule W08	No	16		
16	Purpose made fixed panel circular window, size 1056mm diameter, all as Window Schedule W09	No	4		
Carried to Collection				R	
Section No. 3					
Bill No. 10					
Metalwork					

Item		Unit	Quantity	Rate	Amount
ALUMINIUM SHOPFRONTS					
Matt black colour coated anodised aluminium shopfronts as per approved system complete with sub frames, ironmongery, frosted safety glass, sealing, etc and fixing to brickwork or concrete					
17	Double door with sidelights each side, size 2400 x 2745mm high all as Door Schedule D-12	No	5		
18	Double door with sidelights each side, size 2946 x 3000mm high all as Door Schedule D-01	No	4		
19	Double door with sidelights each side and circular toplight in eight panes, size overall 2946 x 4030mm high all as Door Schedule D-02	No	2		
20	Double door with sidelights each side and circular toplight in four panes, size overall 3208 x 3740mm high all as Door Schedule D-03	No	1		
Matt black colour coated anodised aluminium shopfronts as per approved system complete with sub frames, ironmongery, frosted safety glass, sealing, etc and fixing to brickwork or concrete					
21	Shopfront, size 12 220 x 3580mm high including two double doors, multiple sidelights and toplights as Door Schedule D-11	No	2		
BURGLAR BARS					
Transparent polycarbonate burglar bars with end brackets or bolts fixed to aluminium					
22	40 x 6mm Thick bars in approximately 600mm lengths (b)	m	29		
Carried to Collection				R	
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Bill No. 10					
Metalwork					

BILL NO. 10
METALWORK
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Section No. 3
Bill No. 10
Metalwork

Item	Unit	Quantity	Rate	Amount
SECTION NO. 3 MAIN BUILDING BILL NO. 11 PLASTERING PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> SCREEDS Quartz flooring <p>6mm Thick "Classic Quartz Carpet" seamless stone flooring (Quartz Carpet 0861 782 789; info@seamlessflooring.co.za) or other approved open pore, impact resistant floor treatment, applied by an applicator certified and licensed by the manufacturer</p> Epoxy flooring <p>2mm Thick Stonhard Stontec ERF flooring including preparing by grinding concrete surface with diamond grinder to expose surface matrix, all in strict accordance with the manufacturer's specifications</p>				
1	'Blue Quarry' finish to floors	Rate only	0	
2	'Dakota Bronze' finish to floors	Rate only	0	
3	75mm Coved skirting with edge trim	Rate only	0	
PLASTERING Cement plaster 1:5 to brickwork (b)				
4	To walls	m ²	625	
Two coat plaster to brickwork (b)				
5	To walls	m ²	905	
Carried to Collection			R	
Section No. 3 Bill No. 11 Plastering				

Item		Unit	Quantity	Rate	Amount
6	To walls in small quantities	m²	340		
	SUNDRIES				
	Floor trims, etc				
7	Aluminium edge strip at a PC Sum of R55.00/m to floors	Rate only	0		
Carried to Collection				R	
Section No. 3					
Bill No. 11					
Plastering					

**BILL NO. 11
PLASTERING
COLLECTION**

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Section No. 3
Bill No. 11
Plastering

Item	Unit	Quantity	Rate	Amount
SECTION NO. 3 MAIN BUILDING BILL NO. 12 GLAZING PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles MIRRORS Mirrors				
1	m	12		
4mm Thick silver backed mirror, size 600 x 600mm fixed to brickwall with chrome finished domed screw covers				
Carried To Section Summary				R
Section No. 3				
Bill No. 12				
Glazing				

Item	Unit	Quantity	Rate	Amount
SECTION NO. 3 MAIN BUILDING BILL NO. 13 PAINTWORK PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles PAINTWORK ETC TO NEW WORK ON NEW PLASTERED WALLS Prepare and apply one coat Professional Gypsum and Plaster Primer (PP 700) and two coats Wall & All (WAA/TWA) or other approved paint:				
1 Walls (ZC)	m ²	1 801		
2 Soffits of walls circular on elevation	m ²	56		
Prepare and apply one coat Professional Gypsum and Plaster Primer (PP 700) or other approved primer				
3 Walls	m ²	138		
The following in treatment of rustic pattern plastered walls				
4 Prepare and apply two coats clear silicone sealant to textured brickwork walls (Provisional)	m ²	2 000		
ON NEW CONCRETE FLOORS Preparation of surfaces All concrete floor surfaces described below are to be prepared by ensuring the concrete is a minimum of 28 days old, dry to 75% RH as per BS 8204 or less than 4% moisture content and free of all laitance, dust, and other contamination Prepare by grinding concrete surface beds, clean and leave dust free, apply one coat concrete sealer and two clear coats clear epoxy floor paint				
5 Surface beds (ET)	m ²	324		
Carried to Collection			R	
Section No. 3 Bill No. 13 Paintwork				

Item		Unit	Quantity	Rate	Amount
	Repair concrete surface by light grinding and vacuuming to remove dust, apply Flowprime at 4m²/m² and apply 1,5mm thick Flowshield SL 1000 Pantone Cool Area (Grey 5m – Ral 9006), in Pastel Colour, self-smoothing epoxy resin floor finish, all in full accordance with the manufacturers detailed instructions (manufacturer, Flowcrete SA - 076 511 3913)				
6	Surface beds	m ²	2 826		
7	Recut floor joints, fill and seal with Dymonic 100 in full accordance with the manufacturers detailed instructions	m	2 428		
	ON NEW METAL SURFACES				
	Clean down steel substrate to a clean exposed state by removing all loose and friable matter, old paint, dust, oil, grease and soluble solvents with detergent solution and rinse with portable water to achieve a PH of 7,dry abrasive blast surface (sandblast) to a near "white metal" and Prepare And Apply One Coat of Carbozinc ® 859 or similar approved Iron Primer, One Stripe coat in Carboguard ® 893ZA or similar approved And a final Coat of Carboline ® 134 or similar approved				
8	Structural steelwork	m ²	2 489		
9	Screens	m ²	24		
	ON NEW WOOD SURFACES				
	Two coats oil wood primer				
10	Backs of frames, linings, etc not exceeding 300mm wide	m	11		
	One coat primer and two coats premium quality polyurethane enamel paint				
11	Doors	m ²	101		
12	Door frames etc	m ²	29		
	PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK				
	ON BRICKWORK SURFACES				
	Prepare by grinding brickwork surface, clean and leave dust free, apply one coat bonding liquid and two approved clear sealant coats				
13	Walls (Provisional)	m ²	3 600		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 13				
	Paintwork				

Item		Unit	Quantity	Rate	Amount
	ON PLASTERED WALLS				
	Prepare by grinding plastered surface, clean and leave dust free, apply one coat bonding liquid and two approved clear sealant coats				
14	Walls (Provisional)	m ²	500		
	ON METAL SURFACES				
	Clean down steel substrate to a clean exposed state by removing all loose and friable matter, old paint, dust, oil, grease and soluble solvents with detergent solution and rinse with portable water to achieve a PH of 7, dry abrasive blast surface (sandblast) to a near "white metal" and Prepare And Apply One Coat of Carbozinc ® 859 or similar approved Iron Primer, One Stripe coat in Carboguard ® 893ZA or similar approved And a final Coat of Carboline ® 134 or similar approved				
15	Steel column capping brackets	m ²	1		
16	Columns and beams	m ²	186.00		
17	Trusses (both sides measured)	m ²	657.09		
	ON WOOD SURFACES				
	Sand and clean down to bare surface, remove all dust, stop and apply one coat varnish diluted 20% with mineral turpentine and two coats varnish lightly sanded on				
18	Timber roof trusses on raised roof, 2 900mm span x 530mm high	m ²	6		
Carried to Collection				R	
Section No. 3					
Bill No. 13					
Paintwork					

BILL NO. 13
PAINTWORK
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SECTION SUMMARY

SECTION NO. 4

MEZZANINE

Item	Unit	Quantity	Rate	Amount
SECTION NO. 4 MEZZANINE BILL NO. 1 ALTERATIONS PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> ALTERATIONS Alterations in brickwork and concrete				
1	Cut into brickwork to form pocket size 300 x 500 x 300mm deep at height exceeding 3,5 and not exceeding 5m high	No	90	
2	Build one end of 254 x 145 x 37kg/m steel beam into one brick wall	No	8	
3	Cut 300 x 300 x 80mm deep pocket in concrete surface bed	No	116	
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Section No. 4				
Bill No. 1				
Alterations				

Item	Unit	Quantity	Rate	Amount
SECTION NO. 4 MEZZANINE BILL NO. 2 CONCRETE, FORMWORK AND REINFORCEMENT PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles REINFORCED CONCRETE CAST ON/IN FORMWORK 25MPa/75mm concrete				
1 Non-shrink grout	m ³	0.15		
30MPa/75mm concrete Unreinforced concrete				
2 Pads, size 350 x 350 x 300mm, cast into pockets in brickwork at height exceeding 3,5 and not exceeding 5m high	No	8		
SMOOTH FORMWORK (DEGREE OF ACCURACY II) Formwork to sides				
3 Sides of pads in pockets in brickwork	m ²	11		
Carried To Section Summary			R	
Section No. 4 Bill No. 2 Concrete, Formwork And Reinforcement				

Item	Unit	Quantity	Rate	Amount
SECTION NO. 4 MEZZANINE BILL NO. 3 FLOOR COVERINGS PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> SUPPLEMENTARY PREAMBLES Fixing <p>Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc</p> FLOOR COVERINGS 6mm Fibrebonded polypropylene carpet tiling				
1 On floors	m ²	1 184		
Tarkett Desso Soundmaster Lite or other approved acoustic carpet backing				
2 On timber floors	m ²	1 184		
Carried To Section Summary			R	
Section No. 4 Bill No. 3 Floor Coverings				

Item	Unit	Quantity	Rate	Amount
SECTION NO. 4 MEZZANINE BILL NO. 4 STRUCTURAL STEELWORK PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> SUPPLEMENTARY PREAMBLES Descriptions <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> SUPPLEMENTARY PREAMBLES Descriptions of bolts, anchors, etc <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Items described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described</p> <p>Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres</p> STRUCTURAL STEELWORK Columns and beams				
1	203 x 203 x 46kg/m Columns	Tonnes	4.00	
2	356 x 171 x 45kg/m I-section beam	Tonnes	5.00	
3	254 x 146 x 37kg/m beam	Tonnes	25.00	
4	145 x 350 x 10mm Thick bearing plate	Tonnes	0.37	
5	100 x 100 x 10mm Cleats 100mm long welded to beams	Tonnes	2.00	
Carried to Collection			R	
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Structural Steelwork				

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STRUCTURAL STEELWORK

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Bill No. 4

Structural Steelwork

Item	Unit	Quantity	Rate	Amount
SECTION NO. 4 MEZZANINE BILL NO. 5 METALWORK PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles BOLTS, ETC Galvanised mild steel				
1	M16 Chemical anchor 400mm long	No	92	
Carried To Section Summary				R
Section No. 4				
Bill No. 5				
Metalwork				

Item		Unit	Quantity	Rate	Amount
SECTION NO. 4 MEZZANINE BILL NO. 6 CARPENTRY AND JOINERY PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles CARPENTRY AND JOINERY SA Pine Grade 7					
1	50 x 152mm PAR joists	m	2 203		
2	22mm Thick SA Pine tongue and grooved floor boards hidden nailed to timber joists	m ²	1 184		
Carried To Section Summary				R	
Section No. 4					
Bill No. 6					
Carpentry And Joinery					

Item	Unit	Quantity	Rate	Amount
SECTION NO. 4 MEZZANINE BILL NO. 7 PAINTWORK PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles PAINTWORK Three coats high gloss varnish including sanding between application of each coat				
1 To floors	m ²	1 184		
2 To timber soffits	m ²	1 550		
3 To skirtings in girths not exceeding 300mm girth (b)	m	855		
Carried To Section Summary			R	
Section No. 4				
Bill No. 7				
Paintwork				

Amount

SECTION NO. 4

MEZZANINE

SECTION SUMMARY

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4	STRUCTURAL STEELWORK	80
5	METALWORK	81
6	CARPENTRY AND JOINERY	82
7	PAINTWORK	83

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Section No. 4
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SECTION NO. 5

TOILETS AND STORAGE BLOCKS

Item	Unit	Quantity	Rate	Amount
SECTION NO. 5 TOILETS AND STORAGE BLOCKS BILL NO. 1 ALTERATIONS New Subheading For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles PREAMBLES PREPARATORY WORK TO EXISTING SURFACES. Forming mortices				
1	m	119		
Cut 120 x 120mm high channel in brick wall and prepare surfaces for casting concrete				
Carried To Section Summary				R
Section No. 5				
Bill No. 1				
Alterations				

Item	Unit	Quantity	Rate	Amount
SECTION NO. 5				
TOILETS AND STORAGE BLOCKS				
BILL NO. 2				
CONCRETE, FORMWORK AND REINFORCEMENT				
PREAMBLES				
For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles				
REINFORCED CONCRETE CAST ON/IN FORMWORK				
30MPa/19mm concrete				
1	Slabs including beams and inverted beams	m ³	36	
CONCRETE SUNDRIES				
Finishing top surfaces of concrete smooth with a wood float				
2	Surface beds, slabs, etc	m ²	373	
TEST CUBES				
Test Cubes				
3	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	12	
SMOOTH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)				
Smooth formwork to sides				
4	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	112	
Smooth formwork to soffits				
5	Slabs propped up exceeding 4m and not exceeding 5m high	m ²	373	
REINFORCEMENT (PROVISIONAL)				
High tensile steel reinforcement to structural concrete work				
6	10mm Diameter bars	Tonnes	1.00	
7	12mm Diameter bars	Tonnes	2.00	
8	16mm Diameter bars	Tonnes	1.50	
Carried to Collection			R	
Section No. 5				
Bill No. 2				
Concrete, Formwork And Reinforcement				

Item	Unit	Quantity	Rate	Amount
Fabric reinforcement				
9 Type 245 fabric reinforcement in concrete slabs etc	m ²	373		
Carried to Collection				R
Section No. 5				
Bill No. 2				
Concrete, Formwork And Reinforcement				

Amount

BILL NO. 2

CONCRETE, FORMWORK AND REINFORCEMENT

COLLECTION

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Section No. 5

Bill No. 2

Concrete, Formwork And Reinforcement

Item		Unit	Quantity	Rate	Amount
SECTION NO. 5					
TOILETS AND STORAGE BLOCKS					
BILL NO. 3					
MASONRY					
PREAMBLES					
For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles					
BRICKWORK IN SUPERSTRUCTURE					
Preparation					
1	Prepare concrete surface for raising brickwork	m ²	30		
Brickwork of NFX(E) bricks (28 MPa minimum compressive strength) in class II mortar in loadbearing walls etc					
2	110mm Thick walls	m ²	294		
3	230mm Thick walls	m ²	427		
4	Forming toothings and bonding new brickwork to existing	m ²	26		
2,5mm Brickwork reinforcement					
5	75mm Wide welded high tensile steel wire brick reinforcing fabric and building into walls laid with 100mm laps	m	5 191		
6	150mm Wide welded high tensile steel wire brick reinforcing fabric and building into walls laid with 150mm laps	m	4 543		
Brickwork Sundries					
Prestressed fabricated concrete lintels including necessary temporary supports					
7	70 x 110mm Lintels in lengths not exceeding 3m (b)	m	56		
Galvanised hoop iron cramps, ties, etc					
8	30 x 1,6mm Wall tie 500mm long with one end cast into concrete and other end built into brickwork (b)	No	72		
Carried To Section Summary				R	
Section No. 5					
Bill No. 3					
Masonry					

Item	Unit	Quantity	Rate	Amount
SECTION NO. 5 TOILETS AND STORAGE BLOCKS BILL NO. 4 CARPENTRY AND JOINERY PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> DOORS ETC Doors as per Door Schedule <p>For details of doors, door frames and kitchen cupboards to Service Blocks see Carpentry and Joinery trade in Main Buildings section</p>				
Carried To Section Summary			R	
Section No. 5				
Bill No. 4				
Carpentry And Joinery				

Item	Unit	Quantity	Rate	Amount
SECTION NO. 5 TOILETS AND STORAGE BLOCKS BILL NO. 5 CEILINGS, PARTITIONING AND ACCESS FLOORING PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> SUPPLEMENTARY PREAMBLES Ceilings <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> Fixing <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> Bulkheads <p>Unless otherwise described bulkheads shall be deemed to be horizontal along the length</p> NAILED-UP CEILINGS 9mm Taper-edge gypsum plasterboard with taped and skimmed flush joints				
1				
Ceilings including 38 x 50mm sawn softwood brandering at 400mm centres and cross brandering at edges and against walls	m ²	144		
2				
Vertical portion of bulkhead 150mm high including 38 x 50mm sawn softwood brandering at 400mm centres, joined with joiner sections and hung with suspension members	m	96		
3				
30 x 30 x 2mm Thick anodised aluminium angle fixed to plasterboard edges and edges and corners	m	192		
4				
Opening for 200mm diameter downlighter	No	8		
Carried to Collection			R	
Section No. 5				
Bill No. 5				
Ceilings, Partitioning And Access Flooring				

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Amount

BILL NO. 5

CEILINGS, PARTITIONING AND ACCESS FLOORING

COLLECTION

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Section No. 5

Bill No. 5

Ceilings, Partitioning And Access Flooring

Item		Unit	Quantity	Rate	Amount
SECTION NO. 5 TOILETS AND STORAGE BLOCKS BILL NO. 6 PLASTERING PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> SUPPLEMENTARY PREAMBLES <p>The flooring sub-contractor is to ensure that the screed is of sufficiently good finish to provide a perfect even level surface for the laying of floor covering. Any floor coverings showing waves or imperfections on finished surfaces will not be acceptable.</p> SCREEDS Screeds wood floated, on concrete					
1	30mm Thick on floors and landings (b)	m ²	222		
INTERNAL PLASTER Cement plaster wood floated, for tiles on brickwork					
2	On walls	m ²	1 104		
Two coat plaster on brickwork					
3	On walls	m ²	338		
4	On concrete soffits	m ²	373		
5	On narrow widths not exceeding 300mm wide	m ²	12		
Carried To Section Summary				R	
Section No. 5					
Bill No. 6					
Plastering					

Item	Unit	Quantity	Rate	Amount
SECTION NO. 5				
TOILETS AND STORAGE BLOCKS				
BILL NO. 7				
TILING				
PREAMBLES				
For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles				
SUPPLEMENTARY PREAMBLES				
Patterns				
Unless otherwise described, tiles shall be laid with continuous joints in both directions				
Fixing				
Ceramic, porcelain and other tiles are to be fixed and grouted with approved adhesives and grouts as recommended by the manufacturer of the tiles				
WALL TILING				
100 x 200 x 6mm Porcelain tiles fixed with waterproofing adhesive to plaster (plaster elsewhere) and flush pointed with tinted grout				
1	On walls	m ²	221	
300 x 600 x 6mm Porcelain tiles fixed with waterproofing adhesive to plaster (plaster elsewhere) and flush pointed with tinted grout				
2	On walls	m ²	-222	
FLOOR TILING				
600 x 600 x 6mm Polished porcelain floor tiles fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted waterproof grout				
3	On floors and landings	m ²	222	
SUNDRIES				
Aluminium dividing and edge strips				
4	6 x 15 x 3mm L-section dividing strips between tiles	m	16	
Carried to Collection			R	
Section No. 5				
Bill No. 7				
Tiling				

Item	Unit	Quantity	Rate	Amount
5 6 x 15 x 3mm L-section reveal and corner trims	m	186		
Carried to Collection			R	
Section No. 5				
Bill No. 7				
Tiling				

Amount

BILL NO. 7
TILING
COLLECTION

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Section No. 5
Bill No. 7
Tiling

Item	Unit	Quantity	Rate	Amount
SECTION NO. 5 TOILETS AND STORAGE BLOCKS BILL NO. 8 PAINTWORK PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> SUPPLEMENTARY PREAMBLES Preparatory work to existing work <p>Previously painted plastered surfaces</p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p>Previously painted metal surfaces</p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p>Previously painted wood surfaces</p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p>Paint Specifications</p> <p>All painting shall be done in accordance with Plascon specifications unless otherwise described</p> Colours <p>Unless otherwise described paintwork on ceilings shall be deemed to be in the White colour group and paintwork on all other components shall be deemed to be in the Pastel colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards</p> <p>Extra over for paintwork on components in the White colour group for paintwork in the Pastel colour group (Provisional)</p>				
Carried to Collection			R	
Section No. 5				
Bill No. 8				
Paintwork				

Item	Unit	Quantity	Rate	Amount
Extra over for paintwork on components in the Pastel colour group for paintwork in the Deep colour group (Provisional)				
ON NEW PLASTERED WALLS				
Prepare and apply one coat Professional Gypsum and Plaster Primer (PP 700) and two coats Wall & All (WAA/TWA) or other approved paint				
1 On walls (Pastel colour group)	m ²	791		
ON NEW PLASTERBOARD SURFACES				
Prepare and apply one coat Professional Gypsum and Plaster Primer (PP 700) and two coats Wall & All (WAA/TWA) or other approved paint				
2 On ceilings (White colour group)	m ²	373		
ON NEW WOOD SURFACES				
Once coat primer, one coat universal undercoat and two coats universal enamel paint				
3 Door frames (Deep colour group)	m ²	14		
Carried to Collection				R
Section No. 5				
Bill No. 8				
Paintwork				

<p>BILL NO. 8</p> <p>PAINTWORK</p> <p>COLLECTION</p>	<p>Brought Forward from Page</p>	<p>Page No</p>	<p>99</p>	<p>100</p>
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<p>BILL NO. 8</p> <p>PAINTWORK</p> <p>COLLECTION</p>	<p>Brought Forward from Page</p>	<p>Page No</p>	<p>99</p>	<p>100</p>
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<p>BILL NO. 8</p> <p>PAINTWORK</p> <p>COLLECTION</p>	<p>Brought Forward from Page</p>	<p>Page No</p>	<p>99</p>	<p>100</p>
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<p>BILL NO. 8</p> <p>PAINTWORK</p> <p>COLLECTION</p>	<p>Brought Forward from Page</p>	<p>Page No</p>	<p>99</p>	<p>100</p>
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<p>BILL NO. 8</p> <p>PAINTWORK</p> <p>COLLECTION</p>	<p>Brought Forward from Page</p>	<p>Page No</p>	<p>99</p>	<p>100</p>
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<p>BILL NO. 8</p> <p>PAINTWORK</p> <p>COLLECTION</p>	<p>Brought Forward from Page</p>	<p>Page No</p>	<p>99</p>	<p>100</p>
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TOILETS AND STORAGE BLOCKS
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SECTION NO. 6

PLUMBING AND DRAINAGE

Item		Unit	Quantity	Rate	Amount
RAINWATER GOODS, ETC					
1.5mm Thick galvanised mild steel seamless gutter with 10 year guarantee with architect approved coloured finish including colour-coded rivet-fixed internal and external mitres and end caps internally sealed using silicone sealant, hung by screw fixed internal aluminium hangers at 600mm					
1	250 x 150 x 250mm VHV galvanised mild steel gutter	m	388		
2	Extra over gutter stopped end	No	4		
3	Extra over gutter for 110mm diameter outlet	No	29		
4	Extra over gutter for 200mm diameter outlet	No	9		
5	300 x 275 x 300mm VHV gutter lining formed of 0.8mm pre-coated galvanised steel sheet lining, screw fixed with hoop iron straps and galvanised screws to steelwork at 600mm centres	m	14		
6	Extra over gutter stopped end	No	2		
7	Extra over gutter for 200mm diameter outlet	No	2		
110mm Diameter uPVC pipes and accessories					
8	Rainwater downpipe and fixing to walls with pre-painted downpipe cleats using nail-in anchor fixings and fixed to gutter outlets with domestic snap seals	m	147		
9	110mm Bend	No	54		
200mm Diameter uPVC					
10	Rainwater downpipe and fixing to walls with pre-painted downpipe cleats using nail-in anchor fixings and fixed to gutter outlets with domestic snap seals	m	253		
11	200mm Bend	No	24		
Tanks					
12	5000 Litre Low density polyethylene vertical tank with UV stabilised outer layer and BPA free with lid and overflow	No	6		
STORMWATER DRAINAGE					
Connections to stormwater pipes					
13	Connecting 110mm diameter uPVC downpipe with precast concrete stormwater pipe laid in trench and encased in mass concrete (concrete measured elsewhere).	m	18		
Carried to Collection				R	
Section No. 6					
Bill No. 1					
Plumbing And Drainage					

Item		Unit	Quantity	Rate	Amount
14	Connecting 200mm diameter uPVC downpipe with stormwater pipe laid in trench and encased in mass concrete (measured elsewhere)	No	8		
15	Manhole size 900 x 900mm x not exceeding 1m deep	No	1		
	Linings and heads				
16	400 x 350 x 250mm Cast iron rainwater head twice extending bolted to brickwork	No	1		
	SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES ETC				
	Class 6 PVC-U pipes				
17	110mm Pipes laid in and including trenches not exceeding 1m deep	m	50		
18	Set of two 110mm pipes laid side-by-side in and including trenches not exceeding 1m deep	m	30		
	Extra over Class 6 PVC-U pipes for fittings				
19	110mm Long radius bend	No	20		
	Draw wires				
20	1,6mm Galvanised steel draw wires in pipes	m	200		
	Inspection chambers				
21	600 x 450mm Brick inspection chamber not exceeding 1mm deep internally (cover elsewhere)	No	3		
22	600 x 450mm Cast iron single seal manhole cover and frame	No	3		
	SOIL DRAINAGE (CPAP WORK GROUP NO. 146)				
	Normal duty (Class 51) PVC-U sewer and drain pipes				
23	50mm Pipes	m	104		
24	110mm Pipes	m	58		
25	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	5		
26	110mm Pipes laid in and including trenches not exceeding 1m deep	m	200		
27	110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	50		
	Carried to Collection			R	
	Section No. 6				
	Bill No. 1				
	Plumbing And Drainage				

Item		Unit	Quantity	Rate	Amount
	Extra over normal duty (Class 51) PVC-U sewer and drain pipes for fittings				
28	110mm Bend	No	2		
29	110mm Junction	No	2		
30	110mm Access pipe	No	2		
31	50mm Access bend	No	52		
32	110mm Access bend	No	58		
33	50mm Access junction	No	35		
34	110mm Access junction	No	15		
35	50 x 110mm Reducer	No	52		
36	110mm Rodding eye	No	3		
	uPVC gulleys				
37	110mm Gully exceeding 500mm and not exceeding 750mm deep	No	7		
38	110mm Dished gully exceeding 500mm and not exceeding 750mm deep	No	7		
	Brick inspection chambers including benching (covers and channels elsewhere)				
39	600 x 600mm Inspection chamber exceeding 1mm and not exceeding 2mm deep internally	No	4		
	Cast iron covers etc				
40	600 x 600mm Double seal manhole cover and frame	No	4		
	SANITARY FITTINGS				
	Grade 304 18/10 polished stainless steel Franke or other approved sinks				
41	Trendline Model 800 x 460 SEB single end bowl drop on sink (Code: 310331), overall size 800 x 460mm wide, fitted onto cupboard (elsewhere measured)	No	4		
42	Cascade Model CDX621-120 double bowl drop on sink, overall size 1200 x 500mm wide, fitted onto cupboard (elsewhere measured)	No	1		
	Carried to Collection			R	
	Section No. 6				
	Bill No. 1				
	Plumbing And Drainage				

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Item		Unit	Quantity	Rate	Amount
	'Duravit' or similar approved				
43	'Duravit Durastyle' ceramic wash basin colour white (Code: 23196 0000), size 600 x 440 x 170mm mounted in vanity slab or cupboard top (vanity slab or cupboard elsewhere)	No	30		
44	'Duravit Durastyle' ceramic wash basin colour white (Code: 23196 0000), size 600 x 440 x 170mm, bolted to wall with stainless steel bolts and sealed with ABE Dow Corning Acetoxy silicone sealant	No	5		
45	'Vaal Sanitaryware' vitreous china 'Pearl Paraplegic' semi-close coupled 90 degree outlet open rim washdown pan and matching 9 litre cistern complete with lid, fitments, and purpose made C.P. side-flush lever (left or right). Supplied with purpose made thermoset seat and cover plate. The suite is designed to flush effectively on 6 litres	No	5		
46	'Duravit Durastyle' ceramic wall hung pan colour white (Code: 253609 0000), size 370 x 540 x 400mm with soft close seat (Code: 006379 0000), bolted to wall with stainless steel bolts and sealed with ABE Dow Corning Acetoxy silicone sealant. 'Geberit' 120mm Sigma Kombiflex concealed cistern for wall hung WC (Article No. 110.350.00.5), front actuated with Sigma 01 Dual-Flush actuator (Article No. 115.770.46.5) in matt chrome plated finish, including flush pipe and pan connector, water supply connection with angle stop valve, protection cover for service opening and protection cover for flush pipe, fixed with included fastening materials inside solid wall from 120mm up to 200mm. All with 'Geberit' conditional guarantee	No	24		
47	Duravit' D-Code colour white alpine urinal (Code: 82930 0000) size 305 x 290mm, fixed to wall with 2 No. 8 x 120mm mounting bolts. 'Geberit' Hytronic Sigma 10 electronic urinal actuator (Article No. 116.035.KH.1) finished in shiny/matt/shiny with 9V battery power supply, including universal installation set (Article No. 116.003.00.1) and urinal trap (Article No. 152.950.11.1)	No	12		
	WASTE UNIONS ETC				
	Approved				
48	32mm Slotted chromium plated basin waste union and chromium plated anti-theft plug	No	47		
49	40mm Slotted chromium plated sink waste union	No	5		
	Carried to Collection			R	
	Section No. 6				
	Bill No. 1				
	Plumbing And Drainage				

Item		Unit	Quantity	Rate	Amount
TRAPS ETC					
Approved					
50	40mm Rubber P or S trap	No	5		
51	110mm uPVC one-way vent valve	No	5		
52	32mm Chromium plated bottle trap	No	35		
53	40mm Chromium plated bottle trap	No	12		
54	75mm Chromium plated hinged urinal domical grating	No	12		
55	Approved concealed type toilet flush valve for back entry installation with chromium plated palm press push button and push rod including flush pipes and elbow connectors	No	29		
TAPS, VALVES, ETC					
'Cobra Watertech' or similar approved					
56	15mm Chromium plated angle regulating valve with flexible connector	No	121		
57	20mm Brass fullway isolating ball valve with lever handle	No	5		
58	22mm Brass fullway gate valve	No	5		
59	28mm Brass fullway gate valve	No	3		
60	15mm chromium plated pillar tap (Code: NM-502-21R) with red index and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS5412)	No	10		
61	20mm Heavy duty brass hose bib-tap with wall flange	No	4		
62	Protea 15mm chrome plated single lever basin mixer restricted to 6L/min maximum flow (Code: PA-851), manufactured in accordance with SANS 1480:2005 (BS EN 1286)	No	30		
63	15mm Chromium plated sink mixer	No	5		
64	28mm Brass in-line strainer	No	3		
65	Chromium plated exposed type toilet flush valve for back entry installation, including chromium plated flush pipe	No	5		
66	Elbow action cistern flush handle	No	5		
Carried to Collection				R	
Section No. 6					
Bill No. 1					
Plumbing And Drainage					

Item		Unit	Quantity	Rate	Amount
	SANITARY PLUMBING				
	PVC-U soil and vent pipes				
67	50mm Pipes chased into brickwork	m	177		
68	110mm Pipes chased into brickwork	m	87		
	Extra over PVC-U soil and vent pipes for fittings				
69	110mm Access pipe	No	6		
70	50mm Access bend	No	130		
71	110mm Access bend	No	29		
72	50mm Access junction	No	52		
73	110mm Access junction	No	29		
74	50mm Access reducing junction	No	5		
75	110mm Access reducing junction	No	12		
76	110mm Pan connector	No	29		
77	110mm Stubstack	No	5		
	Testing				
78	Testing waste pipe system	Item			
	WATER SUPPLIES				
	Class 1 copper pipes with brass compression couplings				
79	15mm Pipes chased into brickwork including brown paper lagging	m	447		
80	22mm Pipes chased into brickwork including brown paper lagging	m	416		
81	28mm Pipes chased into brickwork including brown paper lagging	m	210		
	Extra over Class 1 copper pipes for brass compression fittings				
82	Fittings not exceeding 30mm diameter	No	1 707		
	Sundries				
83	Unreinforced concrete in thrust blocks in trenches at bends, tees, etc including extra excavation, formwork, etc	m ³	1		
	Carried to Collection			R	
	Section No. 6				
	Bill No. 1				
	Plumbing And Drainage				

Item		Unit	Quantity	Rate	Amount
84	450 x 350 x 300mm Cast iron meter or valve box including brick chamber below 1mm deep internally	No	1		
85	600 x 450mm Brick valve chamber 1mm deep internally (cover and frame elsewhere)	No	1		
86	600 x 450mm Cast iron single seal cover and frame	No	1		
	Disinfecting				
87	Disinfecting water pipe and tank system	Item			
	Municipal connection				
88	Provide the sum of R20 000.00 (Twenty Thousand Rand) for municipal connection	Item			
	Testing				
89	Testing water pipe system	Item			
	ELECTRIC WATER HEATERS				
	Approved				
90	10 Litre Over-basin electric water heater	No	4		
91	25 Litre Over-basin electric water heater	No	1		
	PIPE INSULATION				
	20mm Thick Neoprene pipe insulation				
92	Insulation to pipes not exceeding 30mm diameter including couplings	m	185		
	HOLES ETC				
93	Hole through 230mm wall for pipe not exceeding 100mm diameter and seal with mortar all around piping once installed	No	92		
94	Hole through 230mm wall for pipe exceeding 100mm and not exceeding 200mm diameter and seal with mortar all around piping once installed	No	29		
	Core drilling hole not exceeding 50mm diameter				
95	150mm Thick reinforced concrete slab, beam, wall, etc	No	5		
Carried to Collection				R	
Section No. 6					
Bill No. 1					
Plumbing And Drainage					

Item	Unit	Quantity	Rate	Amount
AS-BUILT DRAWINGS				
As-Built Drawings:				
96	Item			
Provision of as-built drawings				
Carried to Collection				R
Section No. 6				
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PLUMBING AND DRAINAGE

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Plumbing And Drainage

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SECTION NO. 6

PLUMBING AND DRAINAGE

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SECTION SUMMARY

SECTION NO. 7

EXTERNAL WORKS

Item	Unit	Quantity	Rate	Amount
SECTION NO. 7				
EXTERNAL WORKS				
BILL NO. 1				
SOIL DRAINAGE				
PREAMBLES				
For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles				
SEWER PIPEWORK				
uPVC CL400 sewer pipes including excavation, bedding, backfilling and compaction and disposal of surplus material				
1 110mm Pipes laid in and including trenches not exceeding 1m deep	m	101		
Extra over uPVC pipe for fittings				
2 110mm Bend	No	3		
3 110mm Access bend	No	3		
4 110mm Access junction	No	10		
Sundries				
5 350 x 350mm 15MPa Unreinforced concrete encasing around 110fmm vertical pipe	m ³	2		
6 Testing soil drainage system	Item			
MANHOLES				
Precast concrete manholes with medium duty concrete manhole cover and frame, frame bedded in 1:3 cement mortar, spacers bedded in 1:6 cement mortar and precast concrete slab including excavations, backfilling, compaction, risk of collapse, cart away surplus material, 300mm thick unreinforced 25MPa/19mm concrete base projecting 75mm wide from walls, benching, junctions, channelling, and step irons all in accordance with engineer's drawings for the following depths:				
7 1000mm Diameter (internally) precast concrete manhole not exceeding 1.0m deep internally	No	1		
Carried to Collection			R	
Section No. 7				
Bill No. 1				
Soil Drainage				

Item	Unit	Quantity	Rate	Amount
SEWER CONNECTION				
Connection of sewer system to municipal service				
8 Cutting existing sewer for and installation of the new sewer manhole (measured elsewhere) and making good to existing pipe	No	1		
Carried to Collection			R	
Section No. 7				
Bill No. 1				
Soil Drainage				

			Amount
BILL NO. 1 SOIL DRAINAGE COLLECTION		Page No	
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Section No. 7		R	
Bill No. 1			
Soil Drainage			
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Item	Unit	Quantity	Rate	Amount
SECTION NO. 7 EXTERNAL WORKS BILL NO. 2 WATER SUPPLY PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles WATER PIPEWORK uPVC Class 12 pressure pipes including excavation, bedding, backfilling and compaction and disposal of surplus material				
1	m	154		
Extra over uPVC pressure pipes for fittings				
2	No	5		
3	No	1		
Testing				
4	Item			
WATER CONNECTION				
The following in work to water connection valves and connections				
5	Item			
6	Item			
Carried To Section Summary			R	
Section No. 7				
Bill No. 2				
Water Supply				

Item	Unit	Quantity	Rate	Amount
SECTION NO. 7 EXTERNAL WORKS BILL NO. 3 STORMWATER DRAINAGE PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> STORMWATER PIPEWORK Class 75D concrete pipes including excavation, bedding, backfilling and compaction and disposal of surplus material				
1	m	10		
2	m	10		
Class 100D concrete pipes including excavation, bedding, backfilling and compaction and disposal of surplus material				
3	m	10		
GRID INLET Grid inlet with 520 x 790mm flat-iron grid cover, frame anchored in and including 230 x 200mm 25MPa/19mm reinforced concrete ring beam with fishtail lugs at corners and 700mm centres, one brick wall, 200mm thick 25MPa/19mm reinforced concrete base flush with walls, 50mm thick 10MPa/19mm concrete blinding, 15MPa/38mm concrete benching including excavations, backfilling, compaction, risk of collapse, cart away surplus material, formwork, Ref 888 welded steel mesh, Y10 re-bars, brick reinforcement, plaster to exposed walls, 20mm thick 1:2 cement screed with steel float finish, junctions, channelling, and step irons as per Engineer's Drawing No.: J19 001-C-007 for the following depths:				
4	No	6		
Carried to Collection			R	
Section No. 7 Bill No. 3 Stormwater Drainage				

Item		Unit	Quantity	Rate	Amount
5	1520 x 1940mm Brick grid inlet exceeding 2.0m and not exceeding 3.0m deep internally	No	4		
MANHOLES					
Manhole with 600mm diameter heavy duty type 2A cover and frame bedded in cement mortar on and including 150mm thick 25MPa/19mm reinforced concrete ring beam around frame, 150mm thick 25MPa/19mm reinforced concrete cover slab, 150mm thick 25MPa/19mm reinforced concrete base flash with wall, one brick wall, brick reinforcement, plaster to exposed walls, spacer, adaptor slabs, 20MPa/19mm concrete benching with steel float finish, junctions, channelling, formwork and step irons at 300mm centres including excavations, backfilling, compaction, risk of collapse, etc all in accordance to Engineer's Drawing No.:J19 001 -C007 for the following depths:					
6	1520 x 1940mm Brick manhole not exceeding 1.0m deep internally	No	1		
7	1520 x 1940mm Brick manhole exceeding 1.0m and not exceeding 2.0m deep internally	No	6		
CUTTING THROUGH ROAD SURFACE					
Cutting through and hacking up/off:					
8	Bituminous asphalt road surfacing for 450mm stormwater pipe crossing the road (making good fill and tar surface elsewhere)	m ²	8		
STORMWATER CONNECTION					
9	Cutting into side of existing inspection chamber for and connecting 450mm pipe including inserting 450mm channel junction and making good concrete benching	No	1		
10	Cutting on existing pipe to connect 300mm storm water pipe and making good including backfilling and all necessary work	No	1		
SUNDRIES					
11	Encase concrete pipe	m ³	20		
12	Testing stormwater drainage system	Item			
Carried to Collection				R	
Section No. 7					
Bill No. 3					
Stormwater Drainage					

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Item	Unit	Quantity	Rate	Amount
SECTION NO. 7 EXTERNAL WORKS BILL NO. 4 COURTYARD PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> <p>All preambles to other sections of these bills will apply equally to this section</p> EXCAVATION Open face excavation in earth over sloping site				
1	m ³	286		
Extra over all excavations for carting away				
2	m ³	286		
Keeping excavations free of water				
3	Item			
COMPACTION Compaction of ground surfaces				
4	m ²	636		
LAYER WORK Filling supplied by the contractor under parking areas, roadways, etc				
5	m ³	191		
Carried to Collection			R	
Section No. 7 Bill No. 4 Courtyard				

Item		Unit	Quantity	Rate	Amount
6	Base course of G4 natural gravel material, compacted to 98% Mod AASHTO density	m ³	95		
	TESTS				
	Prescribed tests to determine degree of compaction or other properties of ground or filling				
7	Modified AASHTO Density test	No	12		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	20MPa/19mm reinforced concrete				
8	Paving	m ³	3		
	Finishing top surfaces of concrete with a power float and a coarse hard grass broom				
9	Paving to parking areas, roads, etc to falls	m ²	30		
	Smooth formwork				
10	Formwork to edge not exceeding 300mm high	m	50		
	Fabric reinforcement				
11	Ref 193 welded mesh with 150mm laps in both directions	m ²	30		
	BRICK PAVING				
	Brick paving				
12	60mm Concrete bevelled brick paving in stretcher bond at a PC Sum of R6 000.00/m2 in aprons	m ²	194		
13	80mm Thick polished interlocking precast concrete pavers in multiple colours and patterns, size 203 x 102mm laid on and including 25mm thick layer of clean river sand	m ²	636		
	KERBS				
	Kerbs				
14	Figure 8 precast concrete kerb with continuous haunching	m	88		
15	Figure 8 precast concrete kerb with continuous haunching circular-on-plan	m	12		
	ROAD SIGNAGE AND MARKING				
	Road marking				
16	Two coats reflective road marking paint on paving in 100mm wide lines	m	100		
	Carried to Collection			R	
	Section No. 7				
	Bill No. 4				
	Courtyard				

Item		Unit	Quantity	Rate	Amount
17	Two coats reflective road marking paint on paving in "Stop" and directional signs	m ²	2		
	Road signs				
18	Standard STOP sign with 50mm diameter galvanised mild steel post bedded in and including unreinforced concrete base, including any necessary excavation, paint finish, etc	No	2		
	CARPORTS				
	Carports				
19	Provide the sum of 40 000.00 (Forty Thousand Rand) for mild steel roof sheeting and structural steelwork frames to be measured at billed rates on completion	Item			
Carried to Collection				R	
Section No. 7					
Bill No. 4					
Courtyard					

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COURTYARD
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Bill No. 4
Courtyard

Item	Unit	Quantity	Rate	Amount
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EXTERNAL WORKS				
BILL NO. 5				
SOUTH PARKING AREA				
PREAMBLES				
For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles				
PAVING				
Earthworks				
1 Excavate beneath roads	m ³	467		
2 Cart away excess excavated material	m ³	467		
3 Scarify 150mm deep and compact to 95%	m ²	1 038		
4 G5 filling compacted to 98% Mod AASHTO under roads as Earthworks Item 10	m ³	467		
Concrete, Formwork and Reinforcement				
5 20MPa reinforced concrete	m ³	6		
6 Formwork to edge not exceeding 300mm high	m	70		
7 Ref 193 welded mesh reinforcement	m ²	50		
Brick paving				
8 60mm Concrete bevelled brick paving in stretcher bond at a PC Sum of R6 000.00/m2 in small quantities where paving in walkways has been removed	m ²	80		
9 80mm Concrete brick paving in stretcher bond at a PC Sum of R6 000.00/m2	m ²	1 038		
Road marking				
10 Two coats reflective road marking paint on paving in 100mm wide lines	m	240		
11 Two coats reflective road marking paint on paving in "Stop" and directional signs	m ²	3		
Carried to Collection			R	
Section No. 7				
Bill No. 5				
South Parking Area				

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SOUTH PARKING AREA
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Section No. 7
Bill No. 5
South Parking Area

Item	Unit	Quantity	Rate	Amount
SECTION NO. 7 EXTERNAL WORKS BILL NO. 6 WEST PARKING AREA PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles MAKING GOOD Bituminous premix road surfacing				
1 Make good surface of parking areas, roadways, etc including repairs in patching	m ²	1 290		
ROAD MARKING Road marking				
2 Two coats reflective road marking paint on paving in 100mm wide lines	m	138		
Carried To Section Summary			R	
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Bill No. 6				
West Parking Area				

Item	Unit	Quantity	Rate	Amount
SECTION NO. 7				
EXTERNAL WORKS				
BILL NO. 7				
FENCING AND WALLS				
FENCING AND BOUNDARY WALLS				
Temporary fencing				
1 Take out and dispose of 1800mm high diamond mesh temporary fence	m	130		
BOUNDARY WALL				
Walls and fencing all as architects drawings and details				
2 Clearview fence 1800mm high with posts	m	197		
3 Palisade fence with brick piers as architects details	m	98		
4 Provide the sum of R30 000.00 (Thirty Thousand Rand) for boom gate installation complete	No	1		
FIRE ESCAPE				
Steel external fire escape staircase with balustrades				
5 Provide the sum of R40 000.00 (Forty Thousand Rand) for steel staircase with balustrades	No	1		
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Bill No. 7				
Fencing And Walls				

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EXTERNAL WORKS
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SECTION NO. 8

ELECTRICAL INSTALLATION

Item	Unit	Quantity	Rate	Amount
SECTION NO. 8 ELECTRICAL INSTALLATION BILL NO. 1 ELECTRICAL PRELIMINARIES PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles COMPLIANCE WITH GENERAL CONDITIONS OF CONTRACT Travelling, Out of Town Allowances				
1	Fixed: Time related:	Value related: .	Item	
Establishment of site and provision of buildings and storage facilities including de-establishment of site cleaning and tidying up after completion of contract				
2	Fixed: Time related:	Value related: .	Item	
Full time contract management and supervision of the works including liaison with Principal Contractor and submission of installation programme including weekly revisions thereto from time to time or as may be required				
3	Fixed: Time related:	Value related: .	Item	
Liaison with Local Authority, compliance with O.S.H. Act, Local By-Laws and any other				
4	statutory regulations		Item	
Any additional item not specifically mentioned or included in the Bill of Quantities				
5	which the Tenderer may wish to detail		Item	
Final Inspection of the works by an accredited representative and signing-off of installation				
Carried to Collection			R	
Section No. 8 Bill No. 1 Electrical Preliminaries				

Item		Unit	Quantity	Rate	Amount
	MANAGEMENT OF HEALTH AND SAFETY PLAN				
12	Fixed: Value related: Time related: .	Item			
	PERSONAL PROTECTIVE EQUIPMENT AND PROTECTIVE CLOTHING				
13	Fixed: Value related: Time related: .	Item			
	EMERGENCY PLANNING AND RESPONSE				
14	Fixed: Value related: Time related: .	Item			
	DEVELOPMENT OF SAFE WORK PROCEDURES AND METHOD STATEMENTS				
15	Fixed: Value related: Time related: .	Item			
	HEALTH AND SAFETY FUNCTIONS				
16	Fixed: Value related: Time related: .	Item			
	MEDICAL SURVEILLANCE				
17	Fixed: Value related: Time related: .	Item			
	SPECIAL CLOTHING FOR WORKFORCE				
18	Fixed: Value related: Time related: .	Item			
	IDENTITY CARDS				
19	Fixed: Value related: Time related: .	Item			
	COVID 19 AWARENESS				
20	Fixed: Value related: Time related: .	Item			
	Carried to Collection			R	
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	Bill No. 1				
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ELECTRICAL PRELIMINARIES
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Bill No. 1
Electrical Preliminaries

Item	Unit	Quantity	Rate	Amount
SECTION NO. 8 ELECTRICAL INSTALLATION BILL NO. 2 ELECTRICAL INSTALLATION PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> LV DISTRIBUTION BOARDS & SWITCHGEAR				
1	Item			
Allow for the sum of R950 000.00 for the installtion of bulk MV supply to the site, to be used in part or whole, per Engineers discretion.				
2	Item			
LV DISTRIBUTION BOARDS & SWITCHGEAR				
3	Item			
Allow for attendance				
Marking and Engraved Labelling of Circuits and Distribution Boards <p>Distribution boards, dedicated & normal socket outlets, isolators, light switches</p> <p>and cables shall be properly labelled and marked as indicated in the</p> <p>drawings and outlined in the specifications.</p>				
4	No	8		
Distribution Boards				
5	No	10		
Isolators				
6	No	28		
Light Switches				
7	m	25		
Cables (Marked and Labelled on the Exit and Entry Point of Kiosks, MDBs and SDBs with Grafoplast Trasp PVC Markers).				
Carried to Collection			R	
Section No. 8				
Bill No. 2				
Electrical Installation				

Item		Unit	Quantity	Rate	Amount
	Allow for the complete supply and install of the following distribution boards including all busbars and switchgear to the satisfaction of the Engineer specified and shown on drawing, and to the requirements of the specification. Supply and Install new sub-distribution board for normal supply, as shown on Drawing No. CAR22E/2207/URS/301E and labelled DB MAIN				
8	Supply	No	1		
9	Install	No	1		
	Supply and Install new sub-distribution board for normal supply, as shown on Drawing No. CAR22E/2207/URS/302E and labelled SDB-FOYER				
10	Supply	No	1		
11	Install	No	1		
	Supply and Install new sub-distribution board for normal supply, as shown on Drawing No. CAR22E/2207/URS/303E and labelled SDB-OFFICE 1				
12	Supply	No	1		
13	Install	No	1		
	Supply and Install new sub-distribution board for normal supply, as shown on Drawing No. CAR22E/2207/URS/304E and labelled SDB OFFICE 2				
14	Supply	No	1		
15	Install	No	1		
	Supply and Install new sub-distribution board for normal supply, as shown on Drawing No. CAR22E/2207/URS/305E and labelled SDB OFFICE 3				
16	Supply	No	1		
Carried to Collection				R	
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Bill No. 2					
Electrical Installation					

Item		Unit	Quantity	Rate	Amount
17	Install	No	1		
	Supply and Install new sub-distribution board for normal supply, as shown on Drawing No. CAR22E/2207/URS/306E and labelled SDB OFFICE 4				
18	Supply	No	1		
19	Install	No	1		
	Supply and Install new sub-distribution board for normal supply, as shown on Drawing No. CAR22E/2207/URS/307E and labelled SDB B				
20	Supply	No	1		
21	Install	No	1		
	SWITCHGEAR Allow for the supply and installation of the following switchgear as per specification, and to the satisfaction of the engineer. 5-60 amp SP MCB - 5kA				
22	Supply	No	1		
23	Install	No	1		
	5-60 amp DP MCB - 5kA				
24	Supply	No	1		
25	Install	No	1		
	70-100 amp TP MCB - 5kA				
26	Supply	No	1		
27	Install	No	1		
	125 amp TP MCB - 5kA				
28	Supply	No	1		
29	Install	No	1		
	70-100 amp TP MCB - 10 kA				
30	Supply	No	1		
31	Install	No	1		
	Carried to Collection			R	
	Section No. 8 Bill No. 2 Electrical Installation				

Item	Unit	Quantity	Rate	Amount
32	Supply	No	1	
33	Install	No	1	
34	Supply	No	1	
35	Install	No	1	
36	Supply	No	1	
37	Install	No	1	
38	Supply	No	1	
39	Install	No	1	
40	Supply	No	1	
41	Install	No	1	
42	Supply	No	1	
43	Install	No	1	
44	Supply	No	1	
45	Install	No	1	
MAINS CABLING & SUB MAIN WIRING				
The supply and installation in horizontal ducting, drawn through cable sleeve in trench or on cable tray.				
46	Supply	m	50	
47	Install	m	50	
48	Terminations	No	8	
Carried to Collection				
Section No. 8				
Bill No. 2				
Electrical Installation				

Item		Unit	Quantity	Rate	Amount
49	Supply	m	50		
50	Install	m	50		
51	Terminations	No	8		
	95mm ² x 4 core PVCPVCSWAPVC cable				
52	Supply	m	180		
53	Install	m	180		
54	Terminations	No	8		
	70mm ² x 4 core PVCPVCSWAPVC cable				
55	Supply	m	180		
56	Install	m	180		
57	Terminations	No	8		
	50mm ² x 4 core PVCPVCSWAPVC cable				
58	Supply	m	100		
59	Install	m	100		
60	Terminations	No	4		
	35mm ² x 4 core PVCPVCSWAPVC cable				
61	Supply	m	100		
62	Install	m	100		
63	Terminations	No	4		
	25mm ² x 4 core PVCPVCSWAPVC cable				
64	Supply	m	100		
65	Install	m	100		
66	Terminations	No	8		
	16mm ² x 4 core PVCPVCSWAPVC cable				
67	Supply	m	205		
68	Install	m	205		
69	Terminations	No	8		
	10mm ² x 4 core PVCPVCSWAPVC cable				
Carried to Collection				R	
Section No. 8					
Bill No. 2					
Electrical Installation					

Item		Unit	Quantity	Rate	Amount
70	Supply	m	300		
71	Install	m	300		
72	Terminations	No	24		
	6mm ² x 4 core PVCPVCSWAPVC cable				
73	Supply	m	500		
74	Install	m	500		
75	Terminations	No	24		
	10mm ² x 3 core PVCPVCSWAPVC cable				
76	Supply	m	100		
77	Install	m	100		
78	Terminations	No	12		
	6mm ² x 3 core PVCPVCSWAPVC cable				
79	Supply	m	100		
80	Install	m	100		
81	Terminations	No	12		
	4mm ² x 3 core PVCPVCSWAPVC cable				
82	Supply	m	100		
83	Install	m	100		
84	Terminations	No	12		
	70mm ² bare copper earth wire				
85	Supply	m	280		
86	Install	m	280		
87	Terminations	No	24		
	50mm ² bare copper earth wire				
88	Supply	m	180		
89	Install	m	180		
90	Terminations	No	8		
	35mm ² bare copper earth wire				
Carried to Collection				R	
Section No. 8					
Bill No. 2					
Electrical Installation					

Item		Unit	Quantity	Rate	Amount
91	Supply	m	100		
92	Install	m	100		
93	Terminations	No	4		
	25mm ² bare copper earth wire				
94	Supply	m	100		
95	Install	m	100		
96	Terminations	No	4		
	16mm ² bare copper earth wire				
97	Supply	m	100		
98	Install	m	100		
99	Terminations	No	8		
	10mm ² bare copper earth wire				
100	Supply	m	205		
101	Install	m	205		
102	Terminations	No	8		
	6mm ² bare copper earth wire				
103	Supply	m	300		
104	Install	m	300		
105	Terminations	No	24		
	The supply and installation of galvanised perforated return flange light duty cable tray complete with fixing brackets, droppers, bends, tee pieces & all other ancillary accessories (see specification) before installation				
	300mm wide cable tray				
106	Supply	m	180		
107	Install	m	180		
	100mm wide cable tray				
108	Supply	m	100		
	Carried to Collection			R	
	Section No. 8				
	Bill No. 2				
	Electrical Installation				

Item		Unit	Quantity	Rate	Amount
109	Install	m	100		
	The supply and installation of galvanised steel wire trunking with PVC cover, complete with fixing brackets, droppers, bends, tee pieces & all other ancillary accessories 76 x51mm, similar to P8200				
110	Supply	m	400		
111	Install	m	400		
	51 x51mm, similar to P2700				
112	Supply	m	650		
113	Install	m	650		
	P9000 trunking				
114	Supply	m	50		
115	Install	m	50		
	Excavations for cables in trenches (450mm wide x 600mm deep)				
116	Excavate in normal earth	m	200		
117	Allow for Soft Rock in above trench	m ³	5		
118	Allow for Hard Rock in above trench	m ³	5		
119	Allow for earth in above trench	m ³	4		
	Cable Markers as per specification (Danger tape)				
120	Supply	m	4		
121	Install	m	4		
	Supply and install 110mmØ sleeves c/w bends etc for main supply cables				
122	Supply	m	180		
123	Install	m	180		
	Supply and install 75mmØ sleeves c/w bends etc for main supply cables				
124	Supply	m	50		
125	Install	m	50		
	Carried to Collection			R	
	Section No. 8				
	Bill No. 2				
	Electrical Installation				

Item		Unit	Quantity	Rate	Amount
	Supply and install 50mmØ sleeves c/w bends etc for main supply cables				
126	Supply	m	50		
127	Install	m	50		
	Cable sleeve seal				
128	Supply	No	4		
129	Install	No	4		
	Galvanised steel draw wire				
130	Supply	m	100		
131	Install	m	100		
	Supply and install resin type cable joints and all accessories including resin, fasteners etc, for LV cable sizes between 4mm ² 4C PVC/SWA cables up to and including 10mm ² 4C PVC/SWA.				
132	Supply	No	5		
133	Install	No	5		
	Supply and install resin type cable joints and all accessories including resin, fasteners etc, for LV cable sizes between 16mm ² 4C PVC/SWA cables up to and including 25mm ² 4C PVC/SWA.				
134	Supply	No	5		
135	Install	No	5		
	Supply and install resin type cable joints and all accessories including resin, fasteners etc, for LV cable sizes between 35mm ² 4C PVC/SWA cables up to and including 50mm ² 4C PVC/SWA.				
136	Supply	No	5		
137	Install	No	5		
	Supply and install resin type cable joints and all accessories including resin,				
	Carried to Collection			R	
	Section No. 8				
	Bill No. 2				
	Electrical Installation				

Item		Unit	Quantity	Rate	Amount
	fasteners etc, for LV cable sizes between 70mm ² 4C PVC/SWA cables up to and including 95mm ² 4C PVC/SWA.				
138	Supply	No	5		
139	Install	No	5		
	Supply and install resin type cable joints and all accessories including resin, fasteners etc, for LV cable sizes between 120mm ² 4C PVC/SWA cables up to and including 150mm ² 4C PVC/SWA.				
140	Supply	No	5		
141	Install	No	5		
	Supply and install resin type cable joints and all accessories including resin, fasteners etc, for LV cable sizes between 185mm ² 4C PVC/SWA cables up to and including 240mm ² 4C PVC/SWA.				
142	Supply	No	5		
143	Install	No	5		
	GENERAL LIGHTING				
	All conduit and accessories to be plain ended galvanised steel. The supply and installation of conduit prices to include cutting, drawboxes, fixing material, all conduit accessories, round boxes, locknuts, bushes, cover plates et cetera.				
	20mm diameter plain galvanised steel cast in concrete, on surface in roofspace, built in brickwork				
144	Supply	m	3 824		
145	Install	m	3 824		
	Galvanised bosal, 100 x 50 x 50 switch boxes for 20mm dia conduit built into brickwork or cast into concrete (coverplates measured elsewhere)				
146	Supply	No	84		
147	Install	No	84		
	16 amp single lever, one way flush mounted rocker				
	Carried to Collection			R	
	Section No. 8				
	Bill No. 2				
	Electrical Installation				

Item		Unit	Quantity	Rate	Amount
	type light switch with coverplate.				
148	Supply	No	20		
149	Install	No	20		
	16 amp double lever, one way flush mounted rocker type light switch with coverplate.				
150	Supply	No	8		
151	Install	No	8		
	16 amp photo electric cell surface mounted in an empty luminaire				
152	Supply	No	10		
153	Install	No	10		
	Conductor				
	The supply and installation of PVC insulated single core stranded copper				
	conductors drawn into conduits				
	2,5mm ² PVC black & red				
154	Supply	m	11 472		
155	Install	m	11 472		
	2,5mm ² PVC green/yellow earth wire				
156	Supply	m	5 736		
157	Install	m	5 736		
	5A unswitched socket outlets for light fittings				
158	Supply	No	5		
159	Install	No	5		
	LUMINAIRES				
	Supply, take delivery, unpack, test fittings, including installation, materials, connections, fluorescent and incandescent lamps. Note:- All fluorescent tubes are to be colour '33' cool white complete with electronic ballasts. Type A,B to c/w 3m cabtyre and plug top				
	Type A				
160	Supply	No	140		
	Carried to Collection			R	
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	Electrical Installation				

Item		Unit	Quantity	Rate	Amount
161	Install	No	140		
	Type B				
162	Supply	No	25		
163	Install	No	25		
	Type C				
164	Supply	No	20		
165	Install	No	20		
	Type D				
166	Supply	No	5		
167	Install	No	5		
	Type E				
168	Supply	No	24		
169	Install	No	24		
	Type F				
170	Supply	No	5		
171	Install	No	5		
	Type G				
172	Supply	No	33		
173	Install	No	33		
	Type H				
174	Supply	No	52		
175	Install	No	52		
	Type J				
176	Supply	No	30		
177	Install	No	30		
	Type PT				
178	Supply	No	18		
179	Install	No	18		
Carried to Collection				R	
Section No. 8					
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Electrical Installation					

Item		Unit	Quantity	Rate	Amount
	Occupancy Sensor				
180	Supply	No	28		
181	Install	No	28		
	Note:- The Bulkhead Fittings must be insect proof and fit snugly on to the walls and ceilings. Conductors must pass through grommets to prevent insects and water from entering the fitting. The lamp compartment shall be rated IP 35 and generally comply to SABS 1222. Shared ballasts are not acceptable.				
	POWER				
	All conduit and accessories to be plain ended galvanised steel. The supply and installation of conduit prices to include cutting, drawboxes, fixing material, all conduit accessories, round boxes, locknuts, bushes, cover plates et cetera.				
	20mm dia				
182	Supply	m	870		
183	Install	m	870		
	Galvanised steel, 100 x 100 x 50mm box for 20mm conduit built into brickwork or cast in concrete. (coverplates measured elsewhere)				
184	Supply	No	108		
185	Install	No	108		
	The supply and installation of PVC insulated single core stranded copper conductors drawn into conduits 4mm ² PVC black & red				
186	Supply	m	2 610		
187	Install	m	2 610		
	2,5mm ² PVC green/yellow earth wire				
188	Supply	m	1 305		
189	Install	m	1 305		
	Carried to Collection			R	
	Section No. 8				
	Bill No. 2				
	Electrical Installation				

Item		Unit	Quantity	Rate	Amount
190	16A double socket outlet complete with equal handed toggles and cover plates. Supply	No	20		
191	Install	No	20		
192	16A double socket outlet,round pin switch socket outlet 3 pin flush mounted with cover plates, adhering to SANS 164-1 & 2. Supply	No	44		
193	Install	No	44		
194	10 kVA single phase out double conversion UPS Equal to PSS GP800 series or Similar Approved Supply	No	3		
195	Install	No	3		
	POWER SKIRTING AND DUCTING The supply and installation of modular pre-galvanised 3 compartment power ducting complete with 2 separate clip on steel full length covers, end caps, tee pieces & all other ancillary items necessary, colour sandstone (Series P801 with 2 covers, 3 compartments and 165 high) 3 compartment P801 power ducting complete with 2 covers				
196	Supply	m	120		
197	Install	m	120		
198	16 Amp 3 pin round socket outlet white Supply	No	40		
199	Install	No	40		
200	16 Amp 3 pin flat dedicated socket outlet red Supply	No	40		
201	Install	No	40		
202	RJ 45 data outlets Supply	No	40		
203	Install	No	40		
	Carried to Collection			R	
	Section No. 8 Bill No. 2 Electrical Installation				

Item		Unit	Quantity	Rate	Amount
	RJ 11 telephone outlets				
204	Supply	No	40		
205	Install	No	40		
	16A double socket outlet,round pin switch socket outlet 3 pin flush mounted with cover plates, adhering to SANS 164-1 & 2 installed in power skirting.				
206	Supply	No	40		
207	Install	No	40		
	CCTV SYSTEM				
	Supply and install a 32-Ch Embedded NVR. HDMI and VGA output at up to 1920×1080P resolution, HDD quota and group management, 4 SATA HDD,				
	Two-way audio: 1-Ch, Alarm I/O: 16/4 or similar approved.				
208	Supply	No	1		
209	Install	No	1		
	Supply and install a surveillance harddrive of, 4 TB 3.5" SATA Hard Drive or similar approved				
210	Supply	No	4		
211	Install	No	4		
	Supply and install a 24 Port 10/100 Smart Switch with 4 Gigabit Ports and 24 Port PoE; 2 x SFP slots for Fiber Gigabit Ethernet Modules or similar approved.				
212	Supply	No	1		
213	Install	No	1		
	Supply and install 8 Port Gigabit PoE Smart Switch, 2 x SFP slots for Fiber Gigabit Ethernet Modules.(8 x PoE Ports / 46W) or similar approved.				
214	Supply	No	1		
215	Install	No	1		
	Supply and install a 24 Port 10/100 Smart Switch with 4 Gigabit Ports and 24 Port PoE; 2 x SFP slots for Fiber Gigabit Ethernet Modules or similar approved.				
	Carried to Collection			R	
	Section No. 8				
	Bill No. 2				
	Electrical Installation				

Item		Unit	Quantity	Rate	Amount
216	Supply	No	1		
217	Install	No	1		
	Supply and install 4-MP Outdoor WDR Infra-red Network Dome Camera. HD real-time video / 1080p; D/N; Vandal-proof; Lens: 2.8 & 4mm; Built-in Micro SD card slot; H.264 / MJPEG; DC12V & PoE; 3D DNR; BLC; 3-Axis adjustment; IR range: up to 50M; H.265 Optimized Codec; IP66 or similar approved.				
218	Supply	No	4		
219	Install	No	4		
	Supply and install 4-MP WDR IR Mini-Bullet Network Camera. 1/3" Prog. scan CMOS; 2688x1520 Resolution; Min Ill: 0.01 @F1.2 / 0Lux with IR on; True D/N; IR: 50M; Lens options: 4mm; IP66; H.264+/H.265 Optimized Codec; 12VDC; PoE. or similar approved.				
220	Supply	No	4		
221	Install	No	4		
	Supply and install 4-MP 2.8~12mm Vari-focal WDR IR Network Bullet Camera. Full HD1080p Real-time Video; IR LEDs: 50M; 3D DNR & BLC; Audio I/O;; DC12V & PoE; H.264 +/H.265 Optimized Codec; Support on-board storage up to 64GB. or similar approved.				
222	Supply	No	4		
223	Install	No	4		
	Supply and install a robust rackmounted workstation host PC, Intel Core i7, Windows 11 64bit, Dual 256bit Display, 1TB NVME SSD Drive, OS, 8GB Ram, Keyboard & Mouse or similar approved.				
224	Supply	No	1		
225	Install	No	1		
	Supply 40" LED Surveillance grade monitor, UHD resolution or similar equivalent				
226	Supply	No	2		
227	Install	No	2		
	Supply and Install CABLE CAT6E or similar approved.				
Carried to Collection				R	
Section No. 8					
Bill No. 2					
Electrical Installation					

Item		Unit	Quantity	Rate	Amount
228	Supply	m	600		
229	Install	m	600		
	CONNECTORS & SUNDRIES				
230	Supply	Sum	1		
	CABINETS				
231	Supply	No	1		
232	Install	No	1		
	Fibre Connection				
	Supply and install of Multi mode 4 core fibre cable				
233	Supply	No	100		
234	Install	No	100		
	Supply and install pig tails, mid-couplers , ST-LC patch leads etc and other ancillary connectors, fasteners				
235	Supply	Sum	1		
	Supply and install SFP modules 1gig				
236	Supply	No	2		
237	Install	No	2		
	Allow for splicing of fibre cores				
238	Install	No	8		
	Supply and install YT4 trunking				
239	Supply	m	40		
240	Install	m	0		
	Supply and install ST fibre trays				
241	Supply	No	2		
242	Install	No	2		
	Allow for a 3kVA rackmounted UPS as per specification				
243	Supply	No	1		
244	Install	No	1		
	Allow for a 1kVA rackmounted UPS as per specification				
	Carried to Collection			R	
	Section No. 8				
	Bill No. 2				
	Electrical Installation				

Item		Unit	Quantity	Rate	Amount
245	Supply	No	1		
246	Install	No	1		
	Testing, Training & Commissioning				
247	Allow for Testing and commissioning of complete system in terms of regulations	Sum	1		
248	Allow for training of staff and relevant personnel for a period of 8 full hours	Hrs	8		
	SUNDRY ITEMS				
249	Making safe & decommissioning of the existing installation where specified	Item			
	Housekeeping, sundry items, consumable stocks such as circuit beads engraving, labels etc.	Sum	1		
251	Testing of complete installation in terms of the regulations.	Item			
252	Provide Certificates of Compliance	No	7		
253	- Electrician	No	1		
254	- Assistant (skilled)	No	1		
255	- Assistant (unskilled)	No	1		
	Travelling:				
256	- Small vehicle (van) up to 1 ton capacity	Km	1		
257	- Truck (specify capacity below)	Km	1		
	TRACING OF UNDERGROUND CABLES				
	Allow for tracing of all underground cables including all the equipment necessary to locate cables, GPS all points, produce CAD drawing, liaise with supply authority and provide personnel with authority to operate HV plant				
258	Locate all underground cables in the Complex as specified.	m	3 500		
	PROVISIONAL SUMS				
259	Allow for the sum of R150 000.00 for the supply and installation of the telephone and data network, to be used in part or whole, per Engineers discretion	Item			
260	Allow for profit	Item			
	Carried to Collection			R	
	Section No. 8				
	Bill No. 2				
	Electrical Installation				

Item		Unit	Quantity	Rate	Amount
261	Allow for attendance.	Item			
262	Allow for the sum of R950 000.00 for the supply, installation, testing, delivery and commissioning of a 350kVA standby generator plant, to be used in part or whole, per Engineers discretion	Item			
263	Allow for profit	Item			
264	Allow for attendance	Item			
265	Allow for the sum of R50 000.00 for the installtion of an alarm system bulk MV supply to the site, to be used in part or whole, per Engineers discretion	Item			
266	Allow for profit	Item			
267	Allow for attendance	Item			
Carried to Collection				R	
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Electrical Installation					

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Item	Unit	Quantity	Rate	Amount
SECTION NO. 8 ELECTRICAL INSTALLATION BILL NO. 3 FEATURE LIGHTING PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles FEATURE LIGHTING Provisional Sum				
1	Item			
Provide the sum of R60 000.00 (Sixty Thousand Rand) for feature lighting to be installed by a specialist subcontractor				
2	Item			
Add for profit				
3	Item			
Add for attendance and making good in all trades				
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Feature Lighting				

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ELECTRICAL INSTALLATION
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SECTION NO. 9

MECHANICAL INSTALLATION

Item	Unit	Quantity	Rate	Amount
SECTION NO. 9 MECHANICAL INSTALLATION BILL NO. 1 HEATING, VENTILATION AND AIR-CONDITIONING PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles HEATING, VENTILATION AND AIR-CONDITIONING Heating. Ventilation and Air-conditioning				
1	Item			
Provide the sum of R1 000 000.00 (One Million Rand) for HVAC installtion by a specialist sub-contractor				
2	Item			
Add for profit				
3	Item			
Add for attendance and making good in all trades				
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Bill No. 1				
Heating, Ventilation And Air-conditioning				

Item	Unit	Quantity	Rate	Amount
SECTION NO. 9 MECHANICAL INSTALLATION BILL NO. 2 PASSENGER LIFT PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles LIFT INSTALLATION Supply and install in the allocated shaft as shown in the drawings, a passenger lift with safety glass car doors and landing doors. Car side panels of brushed stainless steel. Complete installation to SANS 1545-1 2009 and SANS 10400				
1	Item			
10 passenger capacity 800 Kgs max. 2 Stops, 2 floors, 2 openings (in-line) Speed: 1.0 m/s 340 V, 4.1 kW 900mm door opening With specified controls				
2	m	60		
Lift car-phone connection (intercom) to control/guard room via communication cable				
3	No	2		
1.5mm SS, satin finish door architraves for each landing				
4	No	1		
Drainage Sump pump complete with float arm, power cable connected to 32mm drain line [by builder] in lift sump. 6m ³ /hr at 4m head, 220V				
5	No	1		
Provision for Forward cover - Imported Material based on the exchange rate at time of tender				
6	Item			
Perform all required inspections and tests as required by the Occupation Health and Safety Act, No. 85 of 1993 and as described in SABS1545 and SABS1543, including the issuing of the required Certificates				
Carried to Collection			R	
Section No. 9 Bill No. 2 Passenger Lift				

Item		Unit	Quantity	Rate	Amount
7	Testing and Commissioning including the provision of all test equipment required to perform the tests, inspections and putting into service of all equipment	Sum	1		
8	Annexure A and B to have the lift in Commission	Item			
9	Quarterly Maintenance for the first 12 months with all statutaory records and documentation	No	4		
10	Compilation of Operation and Maintenance Manuals	Sets	2		
Carried to Collection				R	
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Bill No. 2					
Passenger Lift					

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PASSENGER LIFT
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Section No. 9
Bill No. 2
Passenger Lift

Item	Unit	Quantity	Rate	Amount
SECTION NO. 9 MECHANICAL INSTALLATION BILL NO. 3 FIRE PROTECTION PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> FIRE PROTECTION Fire Extinguishers <p>Supply and installation to include brackets, supports, meranti backing boards painted red and numbering. Only SABS approved Fire Hose Reels, Dry Chemical Powder and CO₂ Extinguishers shall be used</p>				
1	CO ₂ Fire Extinguishers 5 kg	No	12	
2	Dry Chemical Powder (DCP) 4.5 kg	No	12	
3	Fire Blanket 1.2 x 1m	No	1	
4	Fire Extinguishing Fibreglass Housing for 5kg Cylinder	No	1	
Fire Hose Reels <p>Supply and installation to be complete with 30m x 20mm Hose, Gate Valve, Draw Off Shackle and Nozzle to SABS 1475-2. Installation Pipe : Medium Grade Steel 2 coats galvanised self etch primed with red enamel paint, inclusive of all hangers, brackets etc. Hot dipped galvanising to SABS 763 / 1977</p>				
5	30m Hose reel as above	No	9	
6	Fire Hydrant - Tamper proof Double lug hydrant with SS Woodlands Square Spindle - 65mm coupling. Galvanised mild steel Class 16, Medium Grade Steel 2 coats galvanised self etch primed with red enamel paint, inclusive of all hangers, brackets etc. Hot dipped galvanising to SABS 763 / 1977	No	3	
7	75mm NB straight	m	60	
8	40mm NB straight	m	20	
Carried to Collection			R	
Section No. 9 Bill No. 3 Fire Protection				

Item		Unit	Quantity	Rate	Amount
9	32mm NB straight	m	1		
10	25mm NB straight	m	110		
11	Reducer 75-40mm	No	2		
12	Reducer 75-25mm	No	4		
13	Reducer 40-32mm	No	1		
14	Reducer 40-25mm	No	1		
15	Reducer 32-25mm	No	1		
16	90 deg bends - 75mm	No	18		
17	90 deg bends - 40mm	No	4		
18	90 deg bends - 32mm	No	1		
19	90 deg bends - 25mm	No	40		
20	Gate Valve 25 dia	No	9		
21	100mm dia. Pressure Gauges, inclusive of u-bends, connecting pipe and shut-off cock	No	4		
22	Tie into 75 NB pipe from supply	No	3		
	Fire Hydrants				
	80 dia. Galvanised mild steel Class 16, Medium Grade Steel 2 coats galvanised self etch primed with red enamel paint, inclusive of all hangers, brackets etc. Hot dipped galvanising to SABS 763 / 1977				
23	External - By Civil Eng	No	1		
	Signage				
	All signage to be supplied must be in accordance with SANS 1186 requirements, including the artwork, colours, materials utilised and sizes.				
	Rates not included in this schedule must be submitted to the Engineer for approval				
	Photo-luminescent Signage (Internal) Aluminium Frame 25 x 25 x 2mm				
	Informative Fire Fighting sign, square, white with red pictogram to indicate equipment and position etc.				
24	440 x 440	No	1		
	Carried to Collection			R	
	Section No. 9				
	Bill No. 3				
	Fire Protection				

Item		Unit	Quantity	Rate	Amount
25	190 x190	No	27		
26	Emergency Exit Signs- Illuminated c/w battery back up for 2 hrs [SABS Approved] Dim. 430mm L x 45mm W x 215mm H	No	9		
	Aluminium Signage (Internal) Aluminium Frame 25 x 25 x 2mm				
	General informative sign, square, green with white pictogram to indicate direction, escape etc. x 25 x 2mm				
27	440 x 440	No	1		
28	190 x 190	No	27		
	Drawings				
29	As built drawings - paper set	Sets	3		
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Item	Unit	Quantity	Rate	Amount
SECTION NO. 9 MECHANICAL INSTALLATION BILL NO. 4 FIRE DETECTION PREAMBLES <p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles</p> FIRE DETECTION <p>Installation of Analogue Addressable Fire Alarm System to SANS 10139 to be carried out by Specialist Registered Fire Alarm Contractor</p> Fire Panel				
1 Supply and installation of 4 loop Addressable Control Panel c/w 4 loop cards and batteries	No	1		
2 Allowance for re-programming the fire detection system for Phase 1	Item			
Components				
3 Fire Retardant Cabtech cable 1.5mm ² (PH30 fire resistant cable)	m	2 000		
4 Sounder and Strobe Combo - 100dBA	No	6		
5 Smoke Detector s c/w bases	No	65		
6 Break Glass Unit (BGU) with protective plastic cover	No	11		
7 Fire Panel Communication Contacts to Fire Escape Doors as specified to de-energise locking device on doors in a fire situation activated from alarm panel	No	8		
8 N-O relay contacts for smoke spill fans	No	1		
9 Isolating Line Switches and Bases	No	1		
10 25mm Bosal conduit for control wiring	m	2 000		
11 25mm Sprague tubing	m	20		
Carried to Collection			R	
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Bill No. 4
Fire Detection

Item	Unit	Quantity	Rate	Amount
SECTION NO. 9 MECHANICAL INSTALLATION BILL NO. 5 RAINWATER PUMPS PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles RAINWATER PUMPS Provisional Sum				
1	Item			
Provide the sum of R60 000.00 (Sixty Thousand Rand) for rainwater pumps to be installed by a specialist subcontractor				
2	Item			
Add for profit				
3	Item			
Add for attendance and making good in all trades				
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Rainwater Pumps				

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SECTION NO.10

PROVISIONAL SUMS

SECTION NO.10**PROVISIONAL SUMS****PREAMBLES**

For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles

SUPPLEMENTARY PREAMBLES**General**

Work for which budgetary allowances are provided will be measured and valued in accordance with the relevant

?b uilding agreement? ?building contract? and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances

Prime cost amounts and provisional sums are net. Prime cost amounts shall include for delivery to site of all articles concerned. Provisional sums are for material and equipment supplied and installed complete by firms of specialists

Profit

Where stated, the contractor may allow for profit if required

General attendance on nominated/selected subcontractors

The item 'attendance' which follows each provisional sum for nominated/ selected subcontractor's work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/ selected subcontractors the contractor's duties as described in clause 12.2 of the JBCC N/S Subcontract Agreement

Special attendance on nominated/selected subcontractors

Where 'special attendance' such as unloading, storing, placing in position, providing special power supplies, specific hoisting, crane and scaffolding requirements, provision of temporary casing and/or other specific protection of the works, special security and clearing away rubbish is required, a separate item describing the specific requirements in detail is to be provided for the pricing of such requirements

Builder's work

Builder's work in connection with specialist services is given elsewhere in these bills of quantities

NOMINATED/ SELECTED SUBCONTRACTS**CUPBOARDS AND SHELVING**

- 1 Provide the sum of R90 000.00 (Ninety Thousand Rands) for kitchenette floor units, service cupboards and kitchen shelving

Item

Carried To Section Summary

R

Section No. 10

Bill No. 1

Provisional Sums

Item		Amount
2	Allow for profit	Item
3	Allow for attendance and making good in all trades	Item
	STRUCTURAL GLASS LIFT ENCLOSURE	
4	Provide the sum of R400,000.00 (Four Hundred Thousand Rands) for glass enclosure to lift	Item
5	Allow for attendance and making good in all trades	Item
6	Allow for profit	Item
	IRONMONGERY	
7	Provide the sum of R67 200.00 (Sixty Seven Thousand Two Hundred Rand) for Ironmongery	Item
8	Add for profit	Item
9	Allow for attendance and making good in all trades	Item
	SIGNAGE	
	General signage	
10	Provide the sum of R30 000.00 (Thirty Thousand Rand) for general information signage	Item
11	Add for profit	Item
12	Add for attendance and making good in all trades	Item
	COMMUNITY LIAISON OFFICER	
13	Provide the sum of R216 000.00 (Two Hundred and Sixteen Thousand Rand) for community liaison officer (18 months)	Item
14	Add for profit	Item
15	Allow for attendance and making good in all trades	Item
	SOCIAL FACILITATION	
16	Provide the sum of R100 000.00 (One Hundred Thousand Rand) for social facilitation	Item
17	Add for profit	Item
18	Allow for attendance and making good in all trades	Item
	Carried To Section Summary	R
	Section No. 10	
	Bill No. 1	
	Provisional Sums	

Amount

SECTION NO.10
PROVISIONAL SUMS
SECTION SUMMARY

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Carried to Final Summary

R

SECTION NO.11

MATERIALS ON SITE

Item	Unit	Quantity	Rate	Amount
SECTION NO.11 MATERIALS ON SITE BILL NO. 1 MATERIALS ON SITE PREAMBLES For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades", SANS 10400 and other equally applicable state supplementary preambles MATERIALS ON SITE All materials on site that the contractor finds upon taking delivery of the site are to be carefully quantified in the presence of the consultant quantity surveyor and placed in secure storage for use on this project. The tenderer is to price credits against the items below where applicable				
1	Face bricks	Thousand	8	
2	Clay bricks	Thousand	4	
3	G5 Earth filling material	m ³	204	
4	Bar reinforcement	Tonnes	0.90	
5	Ref 295 Reinforcing mesh	m ²	161	
Carried to Final Summary			R	
Section No. 11				
Bill No. 1				
Materials On Site				

SECTION NO.12

CONTRACT PRICE ADJUSTMENT PROVISION

Item	Amount
<p>SECTION NO.12</p> <p>CONTRACT PRICE ADJUSTMENT PROVISION</p> <p>CONTRACT PRICE ADJUSTMENT PROVISION</p> <p>CPAP Allowance</p> <p>1 Provide the sum of R1 912 900.00 (One Million Nine Hundred and Twelve Thousand Nine Hundred Rand) for price adjustments calculated in accordance with the Haylett Formula using indices published by the Department of Statistics South African</p>	<p>Item</p> <p>1 912 900 00</p>
<p>Section No. 12</p> <p>Bill No. 1</p> <p>Contract Price Adjustment Provision</p>	<p>Carried to Final Summary</p> <p>R</p>

			Amount	
Section No.		Page		
FINAL SUMMARY				
1	PRELIMINARIES	30		
2	ALTERATIONS AND DEMOLITIONS (PROVISIONAL)	40		
3	MAIN BUILDING	73		
4	MEZZANINE	84		
5	TOILETS AND STORAGE BLOCKS	102		
6	PLUMBING AND DRAINAGE	115		
7	EXTERNAL WORKS	133		
8	ELECTRICAL INSTALLATION	160		
9	MECHANICAL INSTALLATION	174		
10	PROVISIONAL SUMS	179		
11	MATERIALS ON SITE	181		
12	CONTRACT PRICE ADJUSTMENT PROVISION	183		
	ADD: CONTINGENCIES			
	Allow the Amount of R2 000 000.00 (Two Million Rand) for contingencies, to be used by the Principal Agent in terms of the Principal Building Agreement		2 000 000	00
	Carried to Next			
	FINAL SUMMARY			

	Brought from Previous	R	Amount
SubTotal excluding Value Added Tax			
ADD VAT @ 15% 15%:			
Carried to Tender		R	
FINAL SUMMARY			