

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The JBCC Principal Building Agreement (May 2018 Edition 6.2) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The errata listed under the Table of Contents on page 3 of the JBCC Principal Building Agreement are deemed to be included in the agreement.</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 Edition 6.2 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 above mentioned documents for the full intent and meaning of each clause</p> <p>The clauses in the above mentioned 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>Carried Forward</p> <p>Bill No. 1 Preliminaries</p>			
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<p style="text-align: right;">Brought Forward</p> <p><u>Pricing of Preliminaries</u></p> <p>Should the contractor select Option A in terms of sub-clause 26.9.4 in the Contract Data for the purpose of adjustment of these Preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value-related (V) and Time-related (T)</p> <p>Tenderers are advised any item left unpriced shall be deemed to have been included or allowed for elsewhere in the prices.</p> <p>Fixed (F) - A fixed amount, which shall not be varied</p> <p>Value-related (V) - An amount which shall be varied in proportion to the contract value</p> <p>Time-related (T) - An amount which shall be varied in proportion to the construction period</p> <p><u>PREAMBLES FOR TRADES</u></p> <p><u>User note</u></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 style="text-align: right;">Carried Forward</p> <p>Bill No. 1 Preliminaries</p>	<p style="text-align: center;">R</p> <hr/> <p style="text-align: center;">R</p>
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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

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**

Carried Forward

R

Bill No. 1
Preliminaries

<div>Brought Forward</div> <div>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</div> <div>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</div> <div>Abbreviated descriptions</div> <div>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</div> <div>Legal status of contractor</div> <div>If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:</div> <div>1. These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement</div> <div>2. These persons shall notify the employer of their leader who has authority to bind the contractor and each of these persons</div> <div>3. The contractor shall not alter its composition or legal status without the prior written consent of the employer</div> <div>F:..... V:..... T:.....</div> <div>Carried Forward</div> <div>Bill No. 1 Preliminaries</div>	<div>Item</div>	<div>R</div>	
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		Brought Forward		R	
2	Clause 2.0 - Law, regulations and notices				
	User note				
	<i>Insert the following where a health and safety specification is <u>not</u> yet available</i>				
	Health and safety				
	F:..... V:..... T:.....				
	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 Edition 19. It is specifically stated that the employer shall prepare a documented health and safety specification for the works 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 reasonable provisions of the aforementioned health and safety specification [2.1, 2.7.2 & 2.7.3]				
	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 health and safety specification				
3	Clause 3.0 - Offer and acceptance				
	F:..... V:..... T:.....		Item		
		Carried Forward		R	
	Bill No. 1 Preliminaries				

	Brought Forward		R	
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>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>All drawings for this project will be issued electronically and 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 this 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 [6.2]</p>			
	Carried Forward		R	
	<p>Bill No. 1 Preliminaries</p>			

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7	<p>Clause 7.0 - Design responsibility</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item	
<u>Insurance and security (A8-A11)</u>			
8	<p>Clause 8.0 - Works risk</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item	
9	<p>Clause 9.0 - Indemnities</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item	
10	<p>Clause 10.0 - Insurances</p> <p>F:..... V:.....</p> <p>T:.....</p> <p>The Contractor is to ensure that he is properly and adequately insured in respect of all risk, public liability, workmen and materials on site.</p>	Item	
11	<p>Clause 11.0 - Security</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>F:..... V:.....</p> <p>T:.....</p>	Item	
<u>Execution (A12 - A17)</u>			
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>		
Carried Forward			R
Bill No. 1 Preliminaries			

<p style="text-align: center;">Brought Forward</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 by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as 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> <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>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 style="text-align: center;">Carried Forward</p> <p>Bill No. 1 Preliminaries</p>	<p style="text-align: center;">R</p> <p style="text-align: center;">R</p>
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	<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>F:..... V:..... T:.....</p>	Item		
13	<p>Clause 13.0 - Setting out</p> <p>The contractor shall be responsible for the verification and protection of the location of all existing services. In the event that existing services are damaged by the contractor or sub-contractors then the damaged services shall be reinstated to the approval of the relevant authorities, all at the expense of the contractor</p> <p>F:..... V:..... T:.....</p>	Item		
14	<p>Clause 14.0 - Nominated subcontractors</p> <p>General attendance by the contractor upon n/s subcontractors shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as required by such subcontractor for the execution of the relevant subcontract works</p> <p>F:..... V:..... T:.....</p>	Item		
15	<p>Clause 15.0 - Selected subcontractors</p> <p>Refer to provisions on general attendance in previous clause 14.0 which shall apply equally to this clause</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Bill No. 1 Preliminaries</p>			

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16	Clause 16.0 - Direct contractors Attendance on direct contractors In respect of direct contractors the contractor shall: 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] F:..... V:..... T:.....		Item		
17	Clause 17.0 - Contract instructions 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 F:..... V:..... T:..... <u>Completion (A18 - A24)</u>		Item		
18	Clause 18.0 - Interim completion F:..... V:..... T:.....		Item		
		Carried Forward		R	
	Bill No. 1 Preliminaries				

Brought Forward			R	
19	<p>Clause 19.0 - Practical completion</p> <p>F:..... V:..... T:.....</p>	Item		
20	<p>Clause 20.0 - Sectional completion</p> <p>F:..... V:..... T:.....</p>	Item		
21	<p>Clause 21.0 - Defects liability period and final completion</p> <p>F:..... V:..... T:.....</p>	Item		
22	<p>Clause 22.0 - Latent defects liability period</p> <p>F:..... V:..... T:.....</p>	Item		
23	<p>Clause 23.0 - Revision of date for practical completion</p> <p>Substitution of materials and goods</p> <p>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]</p> <p>F:..... V:..... T:.....</p>	Item		
24	<p>Clause 24.0 - Penalty for late or non-completion</p> <p>F:..... V:..... T:.....</p>	Item		
Carried Forward			R	
<p>Bill No. 1 Preliminaries</p>				

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	<u>Payment (A25 - A27)</u>			
25	<p>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>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>Materials must be stored safely and protected against loss or damage</p> <p>Materials must be covered by insurance</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>F:..... V:..... T:.....</p>	Item		
26	<p>Clause 26.0 - Adjustment of the contract value and final account</p>			
	Carried Forward		R	
	<p>Bill No. 1 Preliminaries</p>			

	<p>Brought Forward</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> <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>F:..... V:..... T:.....</p>	R	
27	<p>Clause 27.0 - Recovery of expense and/or loss</p> <p>F:..... V:..... T:.....</p>	Item	
		Item	
28	<p><u>Suspension and termination (A28 - A29)</u></p> <p>Clause 28.0 - Suspension by the contractor</p>		
	<p>Carried Forward</p> <p>Bill No. 1 Preliminaries</p>	R	

Bill No. 1
Preliminaries

	<p>Brought Forward</p> <p>Where the adjustment of preliminaries is in terms of Option A, the breakdown of charges into three categories and, where applicable, the appointment of preliminaries amounts per section, shall be provided by the contractor in schedule form indicating which items in this Preliminaries Bill are priced and whether they are fixed, Value - related or Time - related or a combination of categories. Alternatively, the contractor may provide the breakdown described above by marking each amount in this Preliminaries Bill with a "F", "V", "T" to indicate Fixed, Value - Related or Time - related respectively. Should the contractor fail to provide the sectional apportionment 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, the detailed breakdown of preliminaries amounts and, where applicable, the apportionment of preliminaries amounts per section, shall be provided by the contractor in an schedule form which separates, as a minimum, the administrative and supervisory staff, the use of construction equipment in terms of the programme, establishment and disestablishment charges, Insurances and Guarantees, site office costs and the like. Should the contractor fail to provide such information within the period stipulated, Option A shall apply [CD 26.0]</p>		R	
32	<p><u>Changes made to JBCC documentation</u></p> <p>It is specifically agreed that the note below calling for amendments to the standard JBCC Agreement to be listed in the space provided in the contract data or recorded in "the single referenced Annexure" shall not apply. Where standard clauses or alternatives are not entirely applicable to this agreement, modifications, corrections or supplements as will apply are given under each relevant clauses heading in this Preliminaries Bill and such amendments, modifications, corrections or supplements shall take precedence notwithstanding the note below and notwithstanding the provisions of clause 5.6 of the JBCC Principal Building Agreement.</p> <p>F:..... V:..... T:.....</p> <p><u>SECTION B: PRELIMINARIES</u></p>	Item		
	<p>Carried Forward</p> <p>Bill No. 1 Preliminaries</p>		R	

Brought Forward			R	
	<u>Interpretation (B1)</u>			
33	Clause 1.1 - Definitions F:..... V:..... T:.....	Item		
34	Clause 1.2 - Interpretation F:..... V:..... T:.....	Item		
	<u>Documents (B2)</u>			
35	Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item		
36	Clause 2.2 - Provisional bills of quantities			
37	Clause 2.3 - Availability of construction information			
	Budgetary allowances and provisional sums 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 F:..... V:..... T:.....	Item		
38	Clause 2.4 - Ordering of materials and goods F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Bill No. 1 Preliminaries			

Brought Forward		R	
<u>Previous work and adjoining properties (B3)</u>			
39	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item	
40	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item	
41	Clause 3.3 - Inspection of adjoining properties A photographic record must be handed over to the Principal Agent prior to commencing work on site F:..... V:..... T:.....	Item	
<u>The site (B4)</u>			
42	Clause 4.1 - Defined works area F:..... V:..... T:.....	Item	
43	Clause 4.2 - Handover of site in stages F:..... V:..... T:.....	Item	
44	Clause 4.3 - Enclosure of the works F:..... V:..... T:.....	Item	
45	Clause 4.4 - Geotechnical investigation F:..... V:..... T:.....	Item	
Carried Forward		R	
Bill No. 1 Preliminaries			

Brought Forward			R	
46	Clause 4.5 - Encroachments F:..... V:..... T:.....	Item		
47	Clause 4.6 - Existing premises occupied F:..... V:..... T:.....	Item		
48	Clause 4.7 - Services - known F:..... V:..... T:.....	Item		
49	Clause 4.8 - Protection of trees and/or relevant natural features F:..... V:..... T:.....	Item		
<u>Management of contract (B5)</u>				
50	Clause 5.1 - Management of the works F:..... V:..... T:.....	Item		
51	Clause 5.2 - Progress meetings F:..... V:..... T:.....	Item		
52	Clause 5.3 - Technical meetings F:..... V:..... T:.....	Item		
Carried Forward			R	
Bill No. 1 Preliminaries				

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	<u>Samples, shop drawings and manufacturer's instructions (B6)</u>			
53	<u>Samples, shop drawings and manufacturer's instructions (B6)</u> Clause 6.1 - Samples of materials Clause 6.1 is hereby amended by the addition of the following: The principal agent may reject any material or colours not corresponding with the samples. The samples shall be kept on site until completion of the works. Should any materials or items specified prove to be either unavailable, in poor supply or likely to cause delay to the works, the contractor shall notify the principal agent in sufficient time for suitable alternatives to be considered. Any claims for delays resulting from the contractor not conforming with the terms of this clause will not be entertained or allowed. 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:.....	Item		
	Carried Forward		R	
	Bill No. 1 Preliminaries			

Brought Forward			R	
<u>Deposits and fees (B7)</u>				
57	Clause 7.1 - Deposits and fees			
	F:..... V:.....			
	T:.....	Item		
<u>Temporary services (B8)</u>				
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:.....	Item		
<u>Prime cost amounts (B9)</u>				
62	Clause 9.1 - Responsibility for prime cost amounts			
Carried Forward			R	
Bill No. 1 Preliminaries				

	Brought Forward		R	
	<u>Attendance on subcontractors (B10)</u>			
63	<p>Clause 10.1 - General attendance</p> <p>General Attendance on N/S Subcontracts</p> <p>The following sub clauses are added:</p> <p>10.1.1 Access to the site and places where the subcontract work is to be carried out, including the reasonable use of any temporary personnel hoists erected by the contractor.</p> <p>10.1.2 The provision of water and lighting and of single phase electric power to a position within 50 metres of the place where the subcontract work is to be carried out but excluding water, fuel and power for commissioning of any installation.</p> <p>10.1.3 The provision of an area for the subcontractor to establish temporary office accommodation and workshop and for the storage of plant and materials.</p> <p>10.1.4. The use of erected scaffolding belonging to the contractor, in common with others having the like right, as necessary to complete the works.</p> <p>10.1.5. The use, at reasonable times by arrangement of the contractor's erected hoisting equipment.</p> <p>F:..... V:..... T:.....</p>	Item		
64	<p>Clause 10.2 - Special attendance</p> <p>F:..... V:..... T:.....</p> <p><u>General (B11)</u></p>			
65	<p>Clause 11.1 - Protection of the works</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Bill No. 1</p> <p>Preliminaries</p>			

Brought Forward			R	
66	Clause 11.2 - Protection/isolation of existing/sectionally occupied works F:..... V:..... T:.....	Item		
67	Clause 11.3 - Security of the works F:..... V:..... T:.....	Item		
68	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	Item		
69	Clause 11.5 - Disturbance F:..... V:..... T:.....	Item		
70	Clause 11.6 - Environmental disturbance F:..... V:..... T:.....	Item		
Carried Forward			R	
Bill No. 1 Preliminaries				

Brought Forward		R	
71	<p>Clause 11.7 - Works cleaning and clearing</p> <p>The contractor shall ensure that the roads, pavements, etc leading to and around the site are kept free from obstruction, debris, etc at all times. In no way shall the work on the site be the cause of any inconvenience or hindrance to traffic or pedestrians. The contractor shall be responsible to ensure that all vehicles leaving the site do not deposit earth, mud, debris, etc either by spillage or via the wheels on any roads.</p> <p>The contractor shall have no claim against the employer in the event that the contractor is held accountable by any local authority or police for any action such as overloading vehicles, causing damage to roads while carting goods and materials onto or away from the site, restrictions on masses or dimensions of loads, holding up traffic, etc.</p> <p>F:..... V:..... T:.....</p>	Item	
72	<p>Clause 11.8 - Vermin</p> <p>F:..... V:..... T:.....</p>	Item	
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	
Carried Forward		R	
Bill No. 1 Preliminaries			

	Brought Forward	R	
	<u>Preliminaries schedule (B12)</u>		
76	Information for completion of the preliminaries schedule 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 12.1 - Provisional bills of quantities [2.2] The quantities are provisional Yes 12.2 - Availability of construction information [2.3] Construction documentation is complete Yes 12.3 - Previous work - dimensional accuracy [3.1] The contractor is required to check the site for dimensional accuracy of the previous works, report thereon in detail possession of the site. Failure by the contractor to comply with the above shall deem the previous works to be correct, and this shall be the basis for adjustment to contract value. 12.4 - Previous work - defects [3.2] not applicable 12.5 - Inspection of adjoining properties [3.3] Specific Requirements: The contractor shall make a photographic record of all adjoining/ existing properties, buildings, walls, boundary fences, roads, pavements, kerbs, etc that could be affected by the works and deliver same recorded on a CD to the principal agent . 12.6 - Defined works area [4.1]		
	Carried Forward	R	
	Bill No. 1 Preliminaries		

<p style="text-align: center;">Brought Forward</p> <p>12.7 - Handover of site in stages [4.2]</p> <p>12.8 - Enclosure of the works [4.3]</p> <p>12.9 - Geotechnical investigation [4.4]</p> <p>12.10 - Existing premises occupied [4.6]</p> <p>12.11 - Services - known [4.7]</p> <p>12.12 - Protection of trees and/or relevant natural features [4.8]</p> <p>12.13 - Water [8.1]</p> <p style="padding-left: 40px;">Option A (by contractor) No</p> <p style="padding-left: 40px;">Option B (by employer - free of charge) No</p> <p style="padding-left: 40px;">Option C (by employer - metered) Yes</p> <p>12.14 - Electricity [8.2]</p> <p style="padding-left: 40px;">Option A (by contractor) No</p> <p style="padding-left: 40px;">Option B (by employer - free of charge) No</p> <p style="padding-left: 40px;">Option C (by employer - metered) Yes</p> <p>12.15 - Ablution and welfare facilities [8.3]</p> <p style="padding-left: 40px;">Option A (by contractor) Yes</p> <p style="padding-left: 40px;">Option B (by employer) No</p> <p>12.16 - Communication facilities [8.4]</p> <p>Specific Requirements: Contractor's account</p> <p>12.17 - Protection of the works [11.1]</p> <p>Specific Requirements: The Contractor shall be liable for all damages to adjoining properties and existing roads and pavement and must make good all damages to same at his own expense all to the satisfaction of the Principal Agent.</p> <p style="text-align: center;">Carried Forward</p> <p>Bill No. 1 Preliminaries</p>	<p style="text-align: center;">R</p> <hr/> <p style="text-align: center;">R</p>
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<div>Brought Forward</div> <div>12.18 - Protection/isolation of existing/sectionally occupied works [11.2]</div> <div>Protection/isolation is required Yes</div> <div>12.19 - Disturbance [11.5]</div> <div>Specific Requirements: Minimising disturbanceAll 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.</div> <div>Whilst the employer shall not impose restrictions upon the contractor's working hours, the contractor shall take all measures available to him in order to minimise noisy operations during business hours. Such measures will include, <i>inter alia</i>, the use of silent compressors and strict control of workmen.</div> <div>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.</div> <div>12.20 - Environmental disturbance [11.6]</div> <div>Controlling all forms of pollution</div> <div>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 <i>inter alia</i> to noise, artificial light, wind-blown sand, dust, deposits of mud, etc</div> <div>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</div> <div>F:..... V:..... T:.....</div> <div>Carried Forward</div> <div>Bill No. 1 Preliminaries</div>	<div>Item</div>	<div>R</div> <div>R</div>	
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Brought Forward		R	
<u>SUPPLEMENTARY DOCUMENTATION</u>			
AS BUILT DRAWINGS			
77	<p>The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineers drawings and are to be submitted to the principal agent and the structural engineer for their records.</p> <p>F:..... V:..... T:.....</p>	Item	
<u>WARRANTIES FOR MATERIALS AND WORKMANSHIP</u>			
78	<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 practical 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. The principal agent shall be the sole judge of the cause responsible for defects in the work and his ruling shall be final and binding.</p> <p>F:..... V:..... T:.....</p>	Item	
Carried Forward		R	
Bill No. 1 Preliminaries			

Brought Forward		R	
SECTION C: SPECIFIC PRELIMINARIES			
ENCLOSURE OF WORKS.			
The contractor shall erect whatever other site enclosure, hoardings, access gates, etc he deems necessary to maintain the security of the works, his temporary offices, stores, etc and to protect the general public from accessing dangerous construction areas, and he shall maintain such enclosure during the course of the works and remove same prior to practical completion.			
F:..... V:..... T:.....		Item	
79	DEFINED WORKS AREA		
The area of the works to be occupied by the contractor, any restriction to the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.			
F:..... V:..... T:.....		Item	
80	LABOUR RECORD		
At the end of each week the contractor shall provide the Principal Agent with written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all sub-contractors on the works each day			
F:..... V:..... T:.....		Item	
Carried Forward		R	
Bill No. 1 Preliminaries			

	Brought Forward		R	
81	EMPLOYMENT OF ILLEGAL WORKERS No illegal (migrant) workers may be employed or allowed on the site by any contractor or subcontractor. Precautions to prevent illegal workers being employed shall include but not be limited to the following: 1. Records of all workers shall be maintained by all contractors and subcontractors, and shall be submitted to the contractor's site agent on a daily basis. 2. Advise all persons entering the site by means of notices or posters that illegal workers will not be employed on the site, and that any illegal workers found on site will be reported to the authorities. 3. Advise all persons entering the site by means of notices or posters that anyone who fails to provide full and proper means of identification when requested to do so by a supervisor will not be allowed to remain on the site. F:..... V:..... T:.....	Item		
82	OVERTIME Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the employer F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Bill No. 1 Preliminaries			

	Brought Forward		R	
83	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 contract value does not exceed the budget F:..... V:..... T:.....	Item		
84	PRICES FOR VARIATIONS Where prices or quotations for variations are submitted by the contractor during the currency of the contract, it shall be clearly understood that these are for the purpose of consideration only and that there is not to be any assumption of their acceptance. F:..... V:..... T:.....	Item		
85	SCAFFOLDING Tenderer to allow for scaffolding in accordance with the scope, including the provision of scaffolding for sub contractors as necessary to complete the works F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Bill No. 1 Preliminaries			

	Brought Forward		R	
86	CHANGES TO THE SCOPE OF WORKS			
	<p>The client reserves the right to extend the scope of works by not more than 20 percent (%) of the tendered quantities without repricing.</p> <p>F:..... V:..... T:.....</p>	Item		
87	SITE INSTRUCTIONS			
	<p>Contract instructions issued on site are to be recorded in triplicate in an instruction book which is to be maintained on site by the contractor. Copies to be sent to Principal Agent and Quantity Surveyor weekly.</p> <p>No verbal Contract Instructions will be considered for remuneration.</p> <p>F: V: T:</p>	Item		
	Carried Forward		R	
	Bill No. 1 Preliminaries			

	Brought Forward		R	
88	WARRANTIES FOR MATERIAL AND WORKMANSHIP Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the final completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specified 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 firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor F: V: T:	Item		
89	COOPERATION 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. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedure to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors F: V: T:	Item		
	Carried Forward		R	
	Bill No. 1 Preliminaries			

	Brought Forward		R	
90	TESTING OF WINDOWS FOR WATERTIGHTNESS Each window shall be tested for watertightness with water sprayed on using adequate pressure. If in the opinion of the principal agent the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other equally approved means F:..... V:..... T:.....	Item		
91	CONFIDENTIALITY 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. No information regarding this project shall be published or disclosed without the prior written consent of the employer F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Bill No. 1 Preliminaries			

	Brought Forward		R	
92	GROUND AND ACCESS TO WORKS On completion of operations, the contractor shall restore the ground surface, wherever it may have been disturbed, to its original condition by filling ruts with material similar to the material within the rut and levelling the ground and, where necessary, plant grass and shrubs as may be required. Reinstatement operations to be done at the Contractor's expense. F:..... V:..... T:.....	Item		
93	ESCALATION/ CONTRACT PRICE ADJUSTMENTS PROVISION This contract and the rates contained will be Fixed and not subject to Escalation / Contract Price Adjustment F:..... V:..... T:.....	Item		
94	CONTRACT DRAWINGS Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Bill No. 1 Preliminaries			

	Brought Forward		R	
95	TRADE NAMES Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for F:..... V:..... T:.....	Item		
96	IMPORTED MATERIALS AND EQUIPMENT Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment to be completed by tenderer) Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable) F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Bill No. 1 Preliminaries			

	Brought Forward		R	
97	ACCESS TO SITE LOCATIONS			
	<p>The site is located at Stock Road Train Station and the tenderer must allow in his pricing for access and other considerations specific to these environments</p> <p>F:..... V:..... T:.....</p>	Item		
98	SECURITY / BACKGROUND CHECKS OF PERSONNEL			
	<p>The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, undertake criminal background checks</p> <p>In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	Bill No. 1 Preliminaries			

	Brought Forward		R	
99	SITE AND CONTACT RESTRICTIONS			
	<p>The contractor is required to keep his personnel and operations limited to the site boundary defined by the principal agent</p> <p>Under no circumstances is the contractor's workmen permitted to have any contact with any other person on the property except for the contact person/s identified by the principal agent for the purpose of liaising with the contractor's representative</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	Bill No. 1 Preliminaries			

	Brought Forward		R	
100	HIV/AIDS AWARENESS It is required of the contractor to thoroughly study the HIV/AIDS Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 31 of "Section 1: Preliminaries (Section A)" or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment	Item		
101	AWARENESS CHAMPION Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Bill No. 1 Preliminaries			

	Brought Forward			R	
102	<p>AWARENESS WORKSHOPS</p> <p>Selection and appointment of a competent Service Provider by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</p> <p>F:..... V:..... T:.....</p>		Item		
103	<p>POSTERS, BOOKLETS, VIDEOS, ETC</p> <p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p> <p>F:..... V:..... T:.....</p>		Item		
104	<p>ACCESS TO CONDOMS</p> <p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p> <p>F:..... V:..... T:.....</p>		Item		
	Carried Forward			R	
	<p>Bill No. 1 Preliminaries</p>				

	Brought Forward		R
105	MONITORING Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification F:..... V:..... T:.....	Item	
106	UTILISE LOCAL RESOURCES Utilise local resources F:..... V:..... T:.....	Item	
107	PROVIDE EXPERIENTIAL WORK OPPORTUNITIES TOWARDS A TECHNICAL QUALIFICATION FOR DESIGNATED PERSONS Provide experiential work opportunities towards a technical qualification for designated persons F:..... V:..... T:.....	Item	
	Carried Forward		R
	Bill No. 1 Preliminaries		

	Brought Forward		R	
108	<p>PROVIDE EXPERIENTIAL WORK OPPORTUNITIES AND TRAINING TOWARDS TRADE COMPETENCIES FOR DESIGNATED PERSONS</p> <p>Provide experiential work opportunities and training towards trade competencies for designated persons</p> <p>F:..... V:..... T:.....</p>	Item		
109	<p>COMMUNITY ENGAGEMENT OBLIGATION</p> <p>The contractor shall ensure labour and community harmony on the project site and in the surrounding community. The Contractor shall participate in all community engagement activities where appropriate to promote the successful early completion of the project.</p> <p>The CLO and the Contractors most senior site manager are required to participate in the regular scheduled PSC meetings. The terms of reference for the PSC will be established prior to electing community / stakeholder participants.</p> <p>F:..... V:..... T:.....</p>	Item		
110	<p>OCCUPATIONAL HEALTH AND SAFETY</p> <p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and safety Act, 1993 (Act No 85 of 1993)</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities / lump sum document</p> <p>The contractor must take note that compliance with the</p>			
	Carried Forward		R	
	<p>Bill No. 1 Preliminaries</p>			

	Brought Forward		R	
	<p>Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance.</p> <p>The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p> <p>Provide the amount for the cost of employing a full time Health & Safety Officer for the duration of the project</p> <p>F:..... V:..... T:.....</p>			
111	Profit	Item		
112	Attendance	Item		
113	SAFETY EQUIPMENT			
	<p>Personal protective equipment, clothing, fencing, signage, and other safety equipment.</p> <p>F:..... V:..... T:.....</p>	Item		
114	Profit	Item		
	Carried Forward		R	
	Bill No. 1 Preliminaries			

Brought Forward			R
115	Attendance	Item	
116	COMMUNITY LIAISON OFFICER (CLO)		
	<p>The contractor shall allow for and pay any and all costs necessary for the engagement of the services of a Community Liaison Officer (CLO) for the full duration of this contract.</p> <p>A CLO will be identified by the local structures of the ward areas and appointed following fair and transparent interviewing process, to be conducted in the presence of local structures and the contractor representative, in order to assist the Contractor in the procurement of any local labour, etc. required for this project. The contractor is to liaise with the CLO and afford him any assistance needed in ensuring sound working relations with the local community.</p> <p>Key Responsibilities of the CLO are envisaged to include and not necessary be limited to:</p> <ol style="list-style-type: none"> 1. Assisting local leadership in conducting skills and resources audit which facilitates sourcing labour from within the ward or targeted areas for employment, as required by the contractor. 2. Assisting in sourcing labour only domestic sub-contractors and the procurement of materials from local resources, as required by the contractor. 3. Assisting the contractor by identifying areas of potential conflict and of threats to the project or to stakeholders in the project and recommend appropriate action to the contractor. 4. Assisting contractor and stakeholders in the project in the resolution of any conflict which may arise. 5. Establishing and ensuring that sufficient and open communication channels between the contractor and the work force are maintained. 6. Establish and ensuring that efficient and open communication channels between the contractor and the community are maintained. 7. Identifying and reporting to the contractor regarding issues where communication between stakeholder is necessary, recommend courses of action and facilitate 		
	Carried Forward		R
	Bill No. 1 Preliminaries		

	Brought Forward		R	
	such communications			
	8. Assisting the Contractor and the work force in the establishment of grievance procedures and necessary recommendation to the contractor regarding the grievances and solution thereto.			
	9. Attending to site meetings and project implementation meetings as required by the Contractor and prepare periodic reports as may be required by the Contractor from time to time.			
	10. Attending to such other duties which are consistent with the functions of a CLO, as may be required by the Contractor from time to time.			
	Tenderers are to price twice the rate of unskilled local labour rate against this item for any and all costs arising out of compliance with the foregoing and in the event of a Tenderer failing to price against this item or making inadequate financial provision against this item for compliance as aforesaid, then no claim for costs or additional cost incurred will be entertained by the Principal Agent.			
	F:..... V:..... T:.....	Item		
117	SUB-CONTRACTING			
	A tenderer to sub-contract a minimum 30% of the contract value to EME's and QSE's to have black ownership of 51% and above. The sub-contractor must reside within the municipal ward.			
	F:..... V:..... T:.....	Item		
	<u>SUMMARY OF CATEGORIES</u>			
	Category : Fixed R.....			
	Category : Value R.....			
	Category : Time R.....			
	Carried to Summary		R	
	Bill No. 1 Preliminaries			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>ALTERATIONS</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>View site</u>			
	Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
	<u>Explosives</u>			
	No explosives whatsoever may be used for demolition purposes unless otherwise stated			
	<u>General</u>			
	The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent			
	Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent			
	Carried Forward		R	
	Bill No. 2 Alterations			

Brought Forward	R
Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc	
Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing	
With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork	
Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary	
The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)	
Asbestos work may only be performed subject to prior approval of the Provincial Director, Occupational Health and Safety, department of Labour in writing	
Proof of such notification must be applied to the Client prior to work proceeding. All employees must be informed and receive training on aspects such as the contents and scope of the Asbestos Regulations as published in Government Gazette 23108 dated 10 February 2002, the potential risks of exposure to asbestos, precautionary measures employees have to take and all other requirements deemed necessary to provide a safe and healthy environment for all employees as specified by the Asbestos Regulations as indicated above.	
Disposal shall be done under strict accordance of the act.	
Carried Forward	R
Bill No. 2 Alterations	

Brought Forward			R
Contractors will be held responsible for all damage, however caused, to ceilings, finishes, etc. inside rooms where the existing roof coverings have been removed and he must make good all damage at his own expense to the approval of the employer. Contractors are to Cover and maintain existing roofs in a perfectly watertight condition during alterations by means of heavy tarpaulins properly secured and maintained in position to the approval of the Employer and make good all work damaged or distributed after completion			
<u>REMOVAL OF EXISTING WORK</u>			
<u>Carefully disconnect existing electrical components and make safe all wiring:</u>			
1	Take out and remove light fittings	No	35
2	Take out and remove plug points	No	2
<u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u>			
3	200mm Thick surface beds	m2	80
4	200mm Thick ramps	m2	34
5	200mm Thick concrete retaining wall including grubbing up foundations, and preparing existing foundations to receive new foundations (New foundations elsewhere measured)	m2	293
6	Precast concrete staircase including unreinforced concrete bedding	m2	36
7	Precast concrete planters including unreinforced concrete bedding	m2	8
<u>Demolish and remove existing dwelling formed of timber frame and clad with metal sheets, with and including breaking up surface beds, grubbing up foundations, etc. and making good ground level</u>			
8	Building size 6000 x 7500 x approximately 4000mm high	No	1
<u>Breaking down and removing brickwork etc.</u>			
9	Half brick walls	m2	7
Carried Forward			R
Bill No. 2 Alterations			

Brought Forward				R
10	One brick walls	m2	11	
11	Plaster in patches	m2	230	
<u>Taking out and remove doors, windows, etc., including thresholds, sills, etc.</u>				
12	Glazed aluminium window approximate size 1500 x 1200mm high	No	21	
13	Semi solid timber door size 900 x 2100 high fitted onto steel door frames complete	No	14	
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.</u>				
14	Carefully take out asbestos roof covering	m2	618	
15	Carefully take out existing asbestos gutters approximate size 200 x 200 x 200mm high including all ends, bends, etc.	m	73	
16	Carefully take out existing asbestos downpipes including all shoes, bends, etc.	m	42	
17	Carefully take out existing asbestos fascia's, barge boards, etc.	m	133	
18	Take out and remove existing nailed gypsum ceilings	m2	239	
<u>Taking out/off and remove precast concrete fencing</u>				
19	Precast concrete fencing approximately 1800mm high complete with post set at approximately 1500mm centres including plaster, grubbing out foundation, etc.	m	42	
<u>Taking out/off and re-alignment of precast concrete fencing</u>				
20	Precast concrete fencing approximately 1800mm high complete with post set at approximately 1500mm centres and re-instate in correct position	m	72	
<u>Replaced damaged precast concrete fencing to match existing</u>				
21	Precast concrete fencing approximately 1800mm high complete with post set at approximately 1500mm centres including foundation, etc.	m	42	
Carried Forward				R
Bill No. 2 Alterations				

Brought Forward				R
<u>Taking out/off and removing sundry metalwork</u>				
22	50mm Diameter handrail with and including stanchions embedded in concrete at approximately 2m centres	m	30	
23	Carefully take out existing driveway swing gate approximate size 3000 x 1800mm high and prepare opening to receive new sliding gate (New sliding gate elsewhere measured)	No	2	
<u>Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc.</u>				
24	Tiles to floors	m2	178	
25	Tiles to walls	m2	365	
26	Tiled skirting average 100mm high to walls	m	70	
<u>Taking up/off and removing carpet tiles including removing adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc.</u>				
27	Carpets to floors	m2	90	
28	Vinyl to floors	m2	80	
29	Vinyl skirting to walls	m	35	
<u>Carefully cutting down tree in sections with and including de-stumping and making good to ground surface</u>				
30	Tree with girth exceeding 1m and not exceeding 2m	No	4	
31	Roots of trees not exceeding 1m in girth	No	4	
<u>Taking out and removing piping, sanitary fittings, etc., including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
32	Shower cubicle complete with concrete base, etc.	No	7	
33	Vitreous china wash hand basin	No	5	
Carried Forward				R
Bill No. 2 Alterations				

Alteration and Additions Works
Northdene Perway

Brought Forward			R	
34	Vitreous china urinals	No	3	
35	Vitreous china WC pan with cistern	No	5	
36	Stainless steel double bowl sink	No	1	
Carried to Summary			R	
Bill No. 2 Alterations				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	The description given in the various items below are not necessary full and complete and reference must be made to the 'Standard Preambles to All Trades' , 'Supplementary Preambles' and 'Supplementary Specifications' to this contract for the full requirement of each schedule item.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Nature of ground</u>			
	Tenderers must acquaint themselves with the nature of the material to be excavated and also refer to the attached geotechnical investigation report annexed to the Bills of Quantities.			
	<u>Carting away of excavated material</u>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<u>Filling</u>			
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material.			
	<u>EXCAVATION OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches	m3	249	
2	Bases	m3	2	
	Carried Forward		R	
	Bill No. 3 Earthworks			

Brought Forward			R
<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 95% Mod. AASHTO density</u>			
3	Not exceeding 500mm deep for placing and removing formwork to foundations 300mm away from excavated face	m2	128
4	Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to foundations 300mm away from excavated face	m2	257
<u>Extra over excavations in earth for excavation in</u>			
5	Soft rock	m3	24
6	Hard rock	m3	12
<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	95
<u>Risk of collapse of excavations</u>			
8	Sides of trench and hole excavations exceeding 1,5m and not exceeding 3m deep	m2	385
<u>Keeping excavations free of water</u>			
9	Keeping excavations free of all water other than subterranean water	Item	
<u>FILLING ETC OTHER THAN BULK</u>			
<u>Earth filling obtained from excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density</u>			
10	Backfilling to trenches, holes, etc.	m3	16
<u>Imported G7 material obtained from commercial sources supplied by the contractor, compacted to 97% Mod AASHTO density</u>			
11	Backfilling to trenches, holes, etc.	m3	143
12	Under floors, steps, pavings, etc.	m3	10
Carried Forward			R
Bill No. 3 Earthworks			

Brought Forward			R
	<u>Imported G5 material obtained from commercial sources supplied by the contractor, compacted to 98% Mod AASHTO density</u>		
13	Under floors, steps, pavings, etc.	m3	10
	<u>Prescribed density tests on filling</u>		
14	Modified AASHTO Density tests	No	8
	<u>Compaction of surfaces</u>		
15	Compaction of ground surface under floors, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% mod AASHTO density	m2	69
	<u>SOIL POISONING</u>		
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years</u>		
16	Under floors, lift pit, etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming	m2	69
Carried to Summary			R
Bill No. 3 Earthworks			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>CONCRETE, FORMWORK & REINFORCEMENT</u>			
	<u>PREAMBLES</u>			
	The description given in the various items below are not necessary full and complete and reference must be made to the 'Standard Preambles to All Trades' , 'Supplementary Preambles' and 'Supplementary Specifications' to this contract for the full requirement of each schedule item.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Cost of tests</u>			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)			
	<u>Formwork</u>			
	Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use			
	The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.			
	Carried Forward		R	
	Bill No. 4 Concrete, Formwork and Reinforcement			

Brought Forward			R
<p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p> <p>Formwork to soffits of solid, etc. shall be deemed to be slabs not exceeding 250mm thick unless otherwise described and propping not exceeding 3,5m high unless otherwise stated. Formwork to walls and columns is not exceeding 3,5m high above bearing level unless otherwise stated.</p> <p><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>10MPa/19mm concrete</u></p>			
1	Surface blinding under strip footing and bases	m3	7
<p><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>25MPa/19mm concrete</u></p>			
2	Strip footings	m3	21
3	Bases	m3	1
4	Surface beds	m3	10
5	Retaining wall strip footings	m3	45
<p><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></p> <p><u>30MPa/19mm concrete</u></p>			
6	Beams	m3	1
7	Ramps	m3	4
8	Columns in foundations	m3	1
Carried Forward			R
<p>Bill No. 4 Concrete, Formwork and Reinforcement</p>			

	Brought Forward			R
9	Columns	m3	1	
10	Retaining walls	m3	183	
11	Staircase and landing	m3	10	
12	Plinths	m3	1	
	<u>TEST CUBES</u>			
	<u>Test cubes</u>			
13	Making and testing set of three 150 x 150 x 150mm concrete strength test cube (Provisional)	No	10	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
14	Surface beds, slabs, etc.	m2	69	
	<u>Finishing top surfaces of concrete smooth with a steel float</u>			
15	Plinths, seating, etc.	m2	3	
	<u>FORMWORK</u>			
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
	<u>Rough formwork to sides</u>			
16	Strip footings (Provisional)	m2	54	
17	Bases (Provisional)	m2	2	
18	Columns in foundations (Provisional)	m2	4	
19	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	7	
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>			
	Carried Forward			R
	Bill No. 4			
	Concrete, Formwork and Reinforcement			

Brought Forward			R
<u>Smooth formwork to sides and soffits</u>			
20	Beams, propped up exceeding 3,5m and not exceeding 5m high	m2	10
<u>Smooth formwork to sides</u>			
21	Columns not exceeding 3,5m high	m2	7
22	Retaining walls not exceeding 3,5m high	m2	1,260
23	Retaining walls exceeding 3,5m and not exceeding 5m high	m2	90
24	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	109
25	Extra over edges. Risers, etc. set at rake	m	50
<u>Boxing in smooth formwork to form</u>			
26	25 x 25mm Chamfer edges set horizontally	m	90
27	25 x 25mm Chamfer edges set vertically	m	18
<u>MOVEMENT JOINTS ETC</u>			
<u>Expansion joints with 15mm softboard between vertical concrete surfaces, including necessary formwork</u>			
28	Not exceeding 300mm high between surface beds and brickworks	m	46
<u>Saw cut joints</u>			
29	3 x 30mm Saw cut joints in top of concrete	m	6
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>Mild steel reinforcement to structural concrete work</u>			
30	Various diameter bars	t	23.10
<u>High tensile steel reinforcement to structural concrete work</u>			
31	Various diameter bars	t	6.78
Carried Forward			R
Bill No. 4 Concrete, Formwork and Reinforcement			

[illegible]

Amount

PREAMBLES

The description given in the various items below are not necessary full and complete and reference must be made to the 'Standard Preambles to All Trades' , 'Supplementary Preambles' and 'Supplementary Specifications' to this contract for the full requirement of each schedule item.

Sizes

Blocks, cills, etc. measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the principal agent for approval before moulds are made

General

User Note - Where precast concrete copings, cills, beams, facings, claddings, etc. are specially designed then the relevant standard and supplementary preambles are to be adhered.

PRECAST CONCRETE COPINGS ETC

Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing

1	220 x 90mm Thick overall coping weathered on top to 40mm thick along one edge, with drip groove in bottom along one edge (As per Type C2 - LG Green)	m	14
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Carried to Summary

Bill No. 5
Precast Concrete

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>MASONRY</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>SAMPLES</u>			
	Samples of masonry building units to be provided before construction commences			
	<u>SIZES IN DESCRIPTIONS</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>BAGGED AND SEALED WALLS</u>			
	User Note: The following preamble generally applies for works in hot and humid coastal areas.			
	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating.			
	<u>FACE BRICKS</u>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour.			
	All facebrick work is to be protected from other finishing trades during the construction period.			
	All interior face brickwork is to receive two coats water based silicone sealant at completion including preparatory work as per manufacturer`s instructions.			
	Carried Forward		R	
	Bill No. 6 Masonry			

Brought Forward			R
<u>POINTING</u>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing etc.			
<u>BRICKWORK IN FOUNDATIONS</u>			
<u>(PROVISIONAL)</u>			
<u>Brickwork of NFX bricks in class II mortar</u>			
1	Half brick walls	m2	33
2	One brick walls	m2	71
<u>BRICKWORK IN SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
3	Half brick walls	m2	65
4	Half brick linings to concrete	m2	1
5	Half brick in beamfilling	m2	7
6	One brick walls	m2	226
7	One brick walls in plinths	m2	4
<u>BRICKWORK SUNDRIES</u>			
<u>Bagging of 1:3 cement and sand mixture</u>			
8	On brick walls, piers, etc	m2	222
<u>Joint forming material in movement joints</u>			
9	12mm Bitumen impregnated fibre board built in vertically between brick skins	m2	2
<u>2.5mm Galvanised brickwork reinforcement</u>			
10	75mm Wide reinforcement built in horizontally	m	368
11	155mm Wide reinforcement built in horizontally	m	911
Carried Forward			R
Bill No. 6 Masonry			

Brought Forward			R
<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>			
12	110 x 75mm Lintels in lengths not exceeding 3m	m	48
<u>Turning pieces to face bricks header</u>			
13	Turning pieces not exceeding 300mm wide or high	m	16
<u>Galvanised hoop iron cramps, ties, etc</u>			
14	30 x 1,6mm Cramp 500mm long with one end fixed to timber and other end built into brickwork	No	160
15	30 x 1,6mm Roof tie 2000mm long with one end fixed to timber trusses and other end built into brickwork	No	46
<u>FACE BRICKWORK</u>			
<u>'Corobrick - Firelight Satin' or other equally approved face bricks pointed with flush horizontal and vertical joints</u>			
16	Extra over brickwork for face brickwork in foundations (Provisional)	m2	36
17	Extra over brickwork in NFP bricks for face brickwork	m2	262
18	Extra over brickwork in NFP bricks for face brickwork to plinths	m2	4
19	Extra over brickwork for brick-on-edge header course	m	16
Carried to Summary			R
Bill No. 6 Masonry			

Item No	Quantity	Rate	Amount
<u>BILL NO. 7</u>			
<u>WATERPROOFING</u>			
<u>PREAMBLES</u>			
The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Waterproofing to SABS 021</u>			
Waterproofing shall be laid under a 10 year written guarantee for site workmanship and watertightness and to be laid to even falls to outlets etc. Descriptions of sheet or membrane waterproofing shall be deemed to include for additional labour to turn-ups and turn downs			
<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" or other equally approved embossed damp proof course</u>			
1	In walls	m2	15
2	Under cills	m2	3
<u>One layer of 375 micron "Consol Plastics" or other equally approved waterproof sheeting sealed at laps</u>			
3	Under surface beds	m2	69
<u>Two coats "Brixal" or other equally approved emulsion bitumen emulsion waterproof coating</u>			
4	On bagged brick walls	m2	222
<u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>			
Carried Forward			R
Bill No. 7 Waterproofing			

Brought Forward			R
<u>Prime with one coat bitumen primer and one layer 'Derbigum SP4' or other equally approved waterproofing membrane on sealed bitumen primed screed by torch fusion. Waterproofing to be installed by approved 'Derbigum' contractor, laid under a ten year guarantee:</u>			
5	On floors, with and including turn-ups and turn-downs not exceeding 300mm girth	m2	14
<u>WATERPROOFING TO SHOWERS</u>			
<u>'RFK Sika Chemflex' or other equally approved waterproofing slurry, with and including 'Sika' membrane apply as per manufacturer's strict instructions:</u>			
6	On shower floors	m2	18
7	On shower walls	m2	108
<u>SEALING STRIPS, JOINT SEALANTS, ETC</u>			
<u>'Sika' or other equally approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>			
8	6 x 10mm In saw cut joints in floors	m	6
9	15 x 15mm In expansion joints in floors including raking out expansion joint filler as necessary	m	46
<u>'Sika' or other equally approved polyurethane sealing compound including backing cord, bond breaker, primer, etc.</u>			
10	15 x 15mm In vertical expansion joints including raking out expansion joint filler as necessary	m	12
Carried to Summary			R
Bill No. 7			
Waterproofing			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 8</u>			
	<u>ROOF COVERINGS, ETC.</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>SHEETING</u>			
	Safintra or other similar approved 0,80mm thick SAFLOK 700 Colorplus® AZ150 interlocking roof sheeting fixed to timber internal purlins at 2000mm, and ridge/eaves purlins at 1700mm centres using SAFLOK 700 clips which must be screw fixed to timber purlins with Fixtite® or Safintra approved wafer head self-tapping screws. The sheeting will be a double interlocking concealed fix SAFLOK 700 profile as manufactured by Safintra Roofing, roll formed in continuous lengths from certified G550 steel or aluminium 3004 H14. The profile shall be roll formed with 4 ribs and centres not exceeding 233mm and a cover width not exceeding 700mm. The male rib is to include spurs to ensure a double interlocking action with adjacent sheets. The minimum sheet depth will be 41mm. Two stiffening ribs are incorporated in each pan.			
	<u>MATERIAL AND FINISH FOR SAFLOK ROOF SHEETING</u>			
	ZincAL® AZ150 coated steel G550 with a ColorPLUS® colour coated finish to one side, colour (sample of colour to be approved on site) with a Cool Grey backing coat.			
	<u>FIXING SAFLOK</u>			
	The Saflok sheets shall be fixed to every purlin by means of patented SAFLOK 700 clips having spurs which will securely hold the sheets in position and lock-			
	Carried Forward			
	Bill No. 8 Roof Coverings		R	

<p style="text-align: right;">Brought Forward</p> <p>in the sidelap and both centre ribs. The SAFLOK 700 clips shall be manufactured from Galvanized steel and shall be fixed with the appropriate self-drilling/tapping screws to timber or steel purlins (selection from installation manual) OR with ZAP no. 10x45mm Waferhead screws type 17 to timber purlins.</p> <p><u>SAFLOK FLASHINGS</u></p> <p>Flashings specifications shall be to the Safintra standards and fixed to the sheeting with S10 brackets or, Sliding brackets at apex where roof sheets are 30m or longer, to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Transverse flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from Global Roofing Solutions.</p> <p><u>SAFETY</u></p> <p>The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.</p> <p><u>INSTALLATION</u></p> <p>Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, should be replaced. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surfaces in order to prevent steel particles from penetrating coated surfaces.</p> <p><u>HANDLING AND STORAGE</u></p> <p>The contractor shall ensure that all materials used on site for roofing/cladding, be transported, handled and</p> <p style="text-align: right;">Carried Forward</p> <p>Bill No. 8 Roof Coverings</p>	<p style="text-align: center;">R</p> <hr/> <p style="text-align: center;">R</p>
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<p style="text-align: right;">Brought Forward</p> <p>stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.</p> <p><u>INSPECTION PRIOR TO INSTALLATION</u></p> <p>Before commencing installation, the contractor shall verify that the following items have been checked and accepted:</p> <ul style="list-style-type: none">a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted.b. Purlins and girths are at the correct spacing and are within the specified tolerances.c. The corners of the roof are square and the wall framework is perpendicular or as specified.d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework.e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or, so dealt with that direct contact with the sheeting is avoided.g. The contact faces between the purlins or the girths and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding. <p><u>PROTRUSION THROUGH SHEETED SURFACES</u></p> <p>Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the</p> <p style="text-align: right;">Carried Forward</p> <p>Bill No. 8 Roof Coverings</p>	<p style="text-align: center;">R</p> <hr/> <p style="text-align: center;">R</p>
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	<p style="text-align: center;">Brought Forward</p> <p>sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.</p> <p><u>GUARANTEE</u></p> <p>The manufacturer shall comply with ISO 9001:2008 Quality Management System. SAFLOK 700 sheeting shall be laid in strict accordance with the manufacturer's specifications by a approved Safintra contractor. A written and approved five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions.</p> <p>CLEANING OF ROOF, ETC.</p> <p>All debris, swarf, etc arising from the fixing of the cladding shall be removed from the sheeting as the fixing progresses. In addition, off-cuts of insulation, surplus fasteners, sealants, mandrels from pop rivets, off-cuts of sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, down pipes, etc.</p> <p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p> <p><u>'Safintra' or other equally approved 0.8mm thick 700mm cover 'Saflok 700'aluminium (Dove Grey both sides) interlocking roof covering fixed to timber purlins at 1200mm centres and ridge purlins at 1000mm centres with 'Denzo LDP 300'insulation tape between aluminium SL700 clips and purlins with 3No. 'Safintra'approved class 4 stainless steel 10 x 22mm wafer head self tapping fasteners, all in accordance with manufacturer's recommendations.</u></p>		R	
1	<p>Roof covering with pitches not exceeding 25 degrees</p> <p style="text-align: center;">Carried Forward</p> <p>Bill No. 8 Roof Coverings</p>	m2	766	R

[illegible]

Item No	Quantity	Rate	Amount
<u>BILL NO. 9</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>PREAMBLES</u>			
<p>The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
<p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Sample of all items to be provided for Architect's approval. Approved samples to remain in the sample room for the duration of the contract.</p> <p>All finishes to comply with SABS standards.</p> <p>Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the Architect and/or taken on site before design or fabrication commences</p>			
<u>Pre-treatment of timber</u>			
<p>This service falls within the areas defined in the National Building Regulations for treatment of timber against insect infestation / insect pest affecting softwood fixed permanently in all buildings.</p> <p>The regulations require that the timber be treated in terms of SABS 05 and to comply with SABS 457, 753, 754 or 1288 as relevant. Tenderer's are to make allowance in there rates.</p>			
Carried Forward		R	
<p>Bill No. 9 Carpentry and Joinery</p>			

Brought Forward			R
<u>Prefabricated roof trusses</u>			
All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0243: The Design, manufacture and erection of timber trusses.			
The tenderer is to allow in his rates for an Registered Engineer nominated by the Roof truss supplier to issue the TR1 and TR2 certificate for the design and installation of related works to the Principle Agent.			
Prices for the roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required all over hanging ends to be wrot faced all round			
<u>PREFABRICATED ROOF TRUSSES, ETC.</u>			
<u>Sawn softwood:</u>			
<u>The following in plate nailed timber roof trusses with a pitch not exceeding 22 Degrees, from an approved supplier, delivered to site, hoisted into position, fixed and braced on timber wall plates</u>			
1	Double pitch roof truss with 600mm over hang on both sides and tie beam spanning 3.00 - 4.00m and 0.80m high truss.	No	9
2	Double pitch roof truss with 600mm over hang on both sides and tie beam spanning 5.00 - 6.00m and 1.25m high truss.	No	17
<u>Sawn softwood:</u>			
3	38 x 114mm Wall plates including bedding level in cement mortar	m	27
4	50 x 75mm Purlins	m	868
<u>EAVES, VERGES, ETC</u>			
<u>"Everite" or other equally approved fibre-cement fascias and barge boards</u>			
5	15 x 255mm Fascias, including galvanised steel H-profile joiners	m	133
Carried Forward			R
Bill No. 9 Carpentry and Joinery			

Brought Forward			R
6	80 x 275mm Angle section barge board, including galvanised steel H-profile joiners	m	110
<u>DOORS</u>			
<u>'TDM' or other equally approved solid timber door and hardwood edges all round, hung to timber frames (timber frames elsewhere measured)</u>			
7	40mm Single door 813 x 2082mm high	No	3
8	40mm Double door 1680 x 2082mm high with rebated edges and including viewing panel in each leaf	No	1
<u>'TDM ' or other equally approved semi solid timber door and hardwood edges all round, hung to timber frames (timber frames elsewhere measured)</u>			
9	40mm Single door 813 x 2082mm high	No	4
<u>FRAMED FRAMES ETC</u>			
<u>Wrought meranti</u>			
10	55 x 80mm Rebated frames, plugged	m	20
<u>JOINERY, CUPBOARDS & WORKTOPS</u>			
<u>Staff Kitchen</u>			
11	Wall shelf unit made of white melamine carcass with vancouver maple melamine for cupboard doors, edge strips to comply to SABS 540, complete with concealed hinges on all cupboard doors and 106 x 30mm pull handle chrome finish (code: TS2129MC), handle by "Roco" or other equally approved. Wall unit to be mounted on wall as per supplier recommendation. Overall size of the unit 1800mm long x 600mm wide x 800mm high. Unit comprises four (2) doors and one (1) open shelf. Tenderer are required to refer to architect drawings for full details and specification prior to pricing.	No	4
Carried Forward			R
Bill No. 9 Carpentry and Joinery			

Brought Forward			R
12	Floor unit made of work top formed of 32mm "Rustenberg" or other equally approved granite work top with bull nose and white melamine carcass with vancouver maple melamine for cupboard doors & drawer, edge strips to comply to SABS 540, complete with concealed hinges on all cupboard doors and 106 x 30mm pull handle chrome finish (code: TS2129MC), handle by "Roco" or similar approved. Unit to be fixed to floor and wall as per supplier recommendation. Overall size of unit is 1800mm long x 600mm wide x 900mm high. Unit comprises cut out for single / double bow sink drop in (sink supplied by others), base, seven (2) doors and four (4) drawer. Tenderer are required to refer to architect drawings for full details and specification prior to pricing.	No	1
13	Floor unit made of work top formed of 32mm "Rustenberg" or other equally approved granite work top with bull nose and white melamine carcass with vancouver maple melamine for cupboard doors & drawer, edge strips to comply to SABS 540, complete with concealed hinges on all cupboard doors and 106 x 30mm pull handle chrome finish (code: TS2129MC), handle by "Roco" or similar approved. Unit to be fixed to floor and wall as per supplier recommendation. Overall size of L-Shaped unit 5300mm long x 600mm wide x 900mm high. Unit comprises cut out for single / double bow sink drop in (sink supplied by others), base, seven (7) doors and four (4) drawer. Tenderer are required to refer to architect drawings for full details and specification prior to pricing.	No	1
<u>WORKTOPS, COUNTERS, ETC</u>			
<u>1.2mm "Astral Graphite" or other equally approved Formica decorative plastic laminate on 32mm waterproof chipboard</u>			
14	600mm Wide worktop, postformed on leading edge, and with one edge fixed to 38 x 38mm bearers plugged to wall and supported by metal brackets (Metal brackets elsewhere measured)	m	10
Carried to Summary			R
Bill No. 9 Carpentry and Joinery			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>CEILINGS PARTITIONS AND ACCESS FLOORING</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>SUSPENDED CEILINGS</u>			
	<u>Proprietary suspended ceilings</u>			
	User Note - The following preamble to be included in the Bills of Quantities after confirmation of the basic design of the ceilings, lighting, air conditioning, etc.			
	Hangers, suspension grids, lay-in panels, etc. are to be in accordance with the manufacturers' recommendations			
	Electrical light fittings, diffusers, panels etc. are generally lay-in units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)			
	<u>'Owa Coustic' 'Future 60'; 15mm Panels, 1200 x 600mm tiles laid on fire rated 'Clip System S3' or other equally approved exposed demountable suspension system including galvanised main tees, cross tees, etc.</u>			
1	Ceilings suspended not exceeding 1m below timber trusses	m2	443	
	<u>Cornices to suspended ceilings:</u>			
2	47 x 35mm 'SM25' or other equally approved recessed shadowline cornice plugged (code LSM 25)	m	398	
	Carried to Summary			R
	Bill No. 10			
	Ceilings, Partitions and Access Flooring			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>IRONMONGERY</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items</u>			
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc. clarifying the features of the products/articles offered on request returnable samples are to be provided to the principal agent for consideration			
	<u>Finishes to ironmongery</u>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<u>HINGES, BOLTS, ETC</u>			
	<u>Manufactured by 'Union' or other equally approved:</u>			
1	Union 102 x 75 x 3mm Stainless steel two ball bearing butt hinge (Code: 8352-100SB)	No	12	
2	"Union" Aluminium indicator bolts (Code: AL8098AS)	No	4	
	Carried Forward			
	Bill No. 11 Ironmongery		R	

Brought Forward			R
<u>LOCKSETS, ETC</u>			
<u>Manufactured by 'Assa Abloy' or other equally approved:</u>			
3	"ASSA Abloy" Oval cylinder upright lock case (Code: L-2221-78SS)	No	4
4	"ASSA Abloy" 66mm Oval double cylinder (Code: 2X6SCMKD)	No	3
<u>HANDLES</u>			
<u>Manufactured by 'Assa Abloy' or other equally approved:</u>			
5	"ASSA Abloy" Round section pull handles with stainless steel finish (Code: 6604-06SS)	No	18
<u>KICK PLATES AND PUSH PLATES</u>			
<u>Manufactured by 'Assa Abloy' or other equally approved:</u>			
6	152 x 152 x 1.22mm Thick brush stainless steel grade 304 push plate with male engraved pictogram with four no. Holes with counter sink screw fixings fixed to timber doors (timber doors elsewhere measured)	No	2
7	152 x 152 x 1.22mm Thick brush stainless steel grade 304 push plate with shower engraved pictogram with four no. Holes with counter sink screw fixings fixed to timber doors (timber doors elsewhere measured)	No	2
8	152 x 152 x 1.22mm Thick brush stainless steel grade 304 push plate with female engraved pictogram with four no. Holes with counter sink screw fixings fixed to timber doors (timber doors elsewhere measured)	No	1
9	813 x 300 x 1.6mm Thick brush stainless steel grade 304 push plate with four no. Holes with counter sink screw fixings fixed to timber doors (timber doors elsewhere measured)	No	4
10	813 x 300 x 1.6mm Thick brush stainless steel grade 304 kick plate with four no. Holes with counter sink screw fixings fixed to timber doors (timber doors elsewhere measured)	No	4
Carried Forward			R
Bill No. 11 Ironmongery			

Brought Forward			R
<u>BATHROOM FITTINGS</u>			
<u>Manufactured by 'Franke' or other equally approved:</u>			
11	Franke Stratos STRX 618E or similar approved 1.5mm thick Grade 304 18/10 stainless steel recessed soap dispensers (code:359705), size 128 x 147 x 632mm deep with a replaceable and refillable 1 litre container, cylinder lock with standard Franke key, plugged and screwed to wall with and including stainless steel screws.	No	3
12	Franke Stratos STRX 672E or similar approved 1.5mm thick Grade 304 18/10 stainless steel recessed toilet roll holders (Code 359721), size 304 x 156 x 140.7mm deep for 2 rolls maximum 108mm diameter with spindle system, cylinder lock with standard Franke key, plugged and screwed to wall with and including stainless steel screws.	No	8
13	Franke Stratos STRX 605 or similar approved 1.5mm thick Grade 304 18/10 stainless steel waste disposal bins (Code: 359730), size 300 x 270 x 520mm high, capacity of 34 litres, cylinder lock with standard Franke key, plugged and screwed to wall with and including stainless steel screws.	No	3
14	Franke Stratos STRX 611E or similar approved 1.5mm thick Grade 304 18/10 stainless steel recessed sanitary towel disposal bins (Code: 359741), size 304 x 205 x 134mm deep with capacity of 6 litres, plugged and screwed to wall with and including stainless steel screws.	No	1
15	Franke HF2400HD or similar approved 1.5mm thick Grade 304 18/10 stainless steel automatic hands free hand dryer (Code: 359961), size 284 x 202 x 248mm deep with 2 No. Vandal proof lock screws and key wrench, plugged and screwed to wall with and including stainless steel screws.	No	3
<u>"Bathroom Butler Series 4600" or other equally approved:</u>			
16	"Bathroom Butler Series 4600" or other equally approved single rail in polished grade 304 stainless steel finish (code: 4678POLS), overall size 1125 x 105 x 50mm, plugged and screwed to wall with stainless steel screws.	No	8
Carried Forward			R
Bill No. 11 Ironmongery			

Brought Forward			R
17	"Bathroom Butler Series 4600" or other equally approved soap rack in polished grade 304 stainless steel finish (Code: 4630POLS), overall size 145 x 130 x 50mm, plugged and screwed to the wall with stainless steel screws.	No	8
<u>PARAPLEGIC FITTINGS</u>			
<u>Paraplegic Fittings - Supplied by Chairman Industries or other equally approved</u>			
18	32mm Serrated stainless steel rear grab rail fixed vertically next to seat (Code SR2)	No	1
19	32mmn Serrated stainless steel vertical wall grab rail at shower (Code SR1)	No	1
20	32mm Serrated 90 degree angled stainless steel dog leg side grab rail angled to suite (Code DL3)	No	1
<u>SUNDRIES</u>			
<u>Manufactured by 'QS Products' or other equally approved:</u>			
21	"QS Product" Stainless steel door stop (Code: QS4422) with stainless finish.	No	9
22	"QS Product" Aluminium hat and coat hook (Code: 4434)	No	4
Carried to Summary			R
Bill No. 11 Ironmongery			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>METALWORK</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>GALVANISED MILD STEEL BALUSTRADES</u>			
	<u>1000mm High galvanised mild steel "Wecrolock" or other equally approved balustrades fixed to concrete floor all in accordance to manufacturer's details</u>			
1	Horizontal balustrades	m	40	
	<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>			
	<u>1.2mm Double rebated frames suitable for half brick wall</u>			
2	Frame for door 813 x 2032mm high	No	3	
3	Frame for door 1630 x 2032mm high	No	1	
	<u>GALVANISED STEEL GATES, SCREENS, ETC</u>			
	<u>Hot dipped galvanised steel gates</u>			
4	Single gate size 900 x 2100mm high with 30 x 30 x 4mm mild steel frame with beading to secure mesh as approved by architect. All steel to be painted with Hammer Rites as per finishing schedule. Tenderers are required to refer to Architect's drawing for full details and specification prior to pricing.	No	3	
	<u>HOT DIPPED GALVANISED STEEL BURGLAR BARS</u>			
	Carried Forward		R	
	Bill No. 12 Metalwork			

Brought Forward			R
	<u>50 x 50mm Hot dipped galvanised vertical bars with rounded ends and polished edges and fixed to wall with 10mm diameter counter sunk expansion bolts through 19mm diameter steel pipe spacers with bolt heads securely epoxy fixed to frame. 19mm Diameter hot dipped galvanised steel pipes equally spaced and welded to vertical falt bars.</u>		
5	Burglar bar size 500 x 600mm high. Tenderers are referred to Architects drawings annexed to these Bills of Quantities	No	3
6	Burglar bar size 1000 x 1200mm high. Tenderers are referred to Architects drawings annexed to these Bills of Quantities	No	9
7	Burglar bar size 1500 x 1100mm high. Tenderers are referred to Architects drawings annexed to these Bills of Quantities	No	7
8	Burglar bar size 1800 x 600mm high. Tenderers are referred to Architects drawings annexed to these Bills of Quantities	No	6
	<u>HOT DIPPED GALVANISED ROLL UP SHUTTERS</u> <u>'Serranda' or other equally approved:</u>		
9	Roll up shutter door size approximate 3800 x 3000mm high	No	2
	<u>ALUMINIUM WINDOWS, DOORS, SHOPFRONTS, ETC.</u> <u>Aluminium window complete with subframes, ironmongery, glass, sealing, etc., and fixing to brickwork or concrete</u> <u>Glazing thickness in accordance with table 1 of SANS 10400 Part 'N'</u>		
10	Purpose made 'natural anodised' powder coated aluminium window including opening panel, all glazing with 6.38mm Low-E glazing, overall size 400 x 600mm high. Tenderers are referred to Architect's drawings annexed to these Bills of Quantities	No	3
Carried Forward			R
Bill No. 12 Metalwork			

Brought Forward			R
11	Purpose made 'natural anodised' powder coated aluminium window including opening panel, all glazing with 6.38mm Low-E glazing, overall size 1000 x 1200mm high. Tenderers are referred to Architect's drawings annexed to these Bills of Quantities	No	9
12	Purpose made 'natural anodised' powder coated aluminium window including opening panel, all glazing with 6.38mm Low-E glazing, overall size 1500 x 1100mm high. Tenderers are referred to Architect's drawings annexed to these Bills of Quantities	No	7
13	Purpose made 'natural anodised' powder coated aluminium window including opening panel, all glazing with 6.38mm Low-E glazing, overall size 1800 x 600mm high. Tenderers are referred to Architect's drawings annexed to these Bills of Quantities	No	7
<u>SHOWER DOORS</u>			
<u>"CTM" or other equally approved CrystalTech Inline White Adjustable Pivot Shower Door - CTE805 - 1000 to 1200 x 1850mm</u>			
14	Adjustable pivot door size - 1000 to 1200 x 1850mm	No	6
<u>COVERED WALKWAYS</u>			
<u>'Awnmaster' or other equally approved:</u>			
15	Chromodeck awning, size 5000 x 5000mm wide fixed on galvanised steel supports and posts, with and including fascia, aluminium gutter and downpipes installed complete.	No	1
16	Chromodeck awning, size 12500 x 5000mm wide fixed on galvanised steel supports and posts, with and including fascia, aluminium gutter and downpipes installed complete.	No	1
<u>STEEL LOCKERS</u>			
<u>Steel double compartment stacked lockers (Code: LO10), epoxy powder coated with flush fitting doors, for padlock. To comply with BS EN ISO 9001-2000 requirements. Colour, admiral grey.</u>			
17	300 x 450 x 1800mm high steel lockers	No	16
Carried to Summary			R
Bill No. 12 Metalwork			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 13</u>			
	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Method</u>			
	The method to be used shall be either the monolithic method or the bonded method			
	<u>Laying</u>			
	Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels			
	Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels			
	After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated			
	<u>SCREEDS (Note: FM II Finish to Screed)</u>			
	<u>Screeds wood floated, on concrete</u>			
1	Average 30mm thick on floors and landings	m2	443	
	<u>INTERNAL PLASTER</u>			
	Carried Forward		R	
	Bill No. 13 Plastering			

Brought Forward				R	
<u>One coat cement plaster wood floated on brickwork</u>					
2	On walls	m2	320		
3	On walls in patches	m2	230		
4	On narrow widths	m2	22		
<u>One coat cement plaster wood floated on concrete</u>					
5	On beams	m2	10		
6	On columns	m2	7		
<u>EXTERNAL PLASTER</u>					
<u>One coat cement plaster wood floated on brickwork</u>					
7	On walls	m2	8		
8	On narrow widths	m2	6		
Carried to Summary				R	
Bill No. 13 Plastering					

Item No	Quantity	Rate	Amount
<u>BILL NO. 14</u>			
<u>TILING</u>			
<u>PREAMBLES</u>			
The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Unless described as 'fixed with adhesive to plaster (plaster elsewhere)' descriptions of tiling on brick or concrete walls, columns, etc. shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc. shall be deemed to include 1:3 screed			
Tiling described as 'fixed with adhesive on power floated concrete' shall be deemed to include for approved tiling key-coat			
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the Tal range of products as recommended by the manufacturer of the tiles			
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the Tal or other approved range of products as recommended by the manufacturer of the tiles			
<u>WALL TILING</u>			
Carried Forward		R	
Bill No. 14 Tiling			

Brought Forward			R
<u>300 x 300mm High Gloss Black (Code SE20A POL 3x6 AH) wall tiles fixed with "'Tal Goldstar 6' and Tal Bond" or other equally approved tile adhesive to plastered walls (plaster elsewhere) and flush pointed with " Tal Wall or Floor" anti-bacterial grout in accordance with the manufacturers instruction:</u>			
1	Tiles to walls	m2	200
2	Extra over wall tiling for narrow widths	m2	14
3	Extra over tiling for circular cutting around piping not exceeding 150mm diameter	No	35
<u>FLOOR TILING</u>			
<u>600 x 600mm High R10 slip rated full bodied porcelain floor (Code: UT=SEZZ6879N) tiles fixed with "'Tal Goldstar 6' and Tal Bond" or other equally approved tile adhesive to power floated floors and flush pointed with " Tal Floor" anti-bacterial grout in accordance with the manufacturers instruction:</u>			
4	On floors (Bathrooms)	m2	74
<u>600 x 600mm High R10 slip rated full bodied porcelain floor (Code: UT=SEZZ6876N) tiles fixed with "'Tal Goldstar 6' and Tal Bond" or other equally approved tile adhesive to power floated floors and flush pointed with " Tal Floor" anti-bacterial grout in accordance with the manufacturers instruction:</u>			
5	On floors (Common)	m2	266
6	100mm High skirting	m	257
<u>SUNDRIES</u>			
<u>"M-trim" or other equally approved:</u>			
7	Type ASE100.1N edgetrim	m	170
Carried to Summary			R
Bill No. 14			
Tiling			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 15</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>RAINWATER DISPOSAL</u>			
	<u>0.8mm Seamless aluminium proprietary gutter and rainwater pipe system with baked enamel finish</u>			
1	Purpose made 200 x 150mm Square eaves gutters fixed to rafter	m	133	
2	Extra over gutter for outlet	No	22	
3	Extra over gutter for stop end	No	22	
	<u>0.8mm Fluted aluminium down pipes with baked enamel finish</u>			
4	120 x 90mm Rainwater pipe	m	77	
5	Extra on rainwater pipe for bend	No	44	
6	Extra on rainwater pipe for shoe	No	22	
	<u>STORMWATER DRAINAGE</u>			
	<u>Heavy duty uPVC class 34 pipes in class C bedding:</u>			
7	75mm Pipes vertically or ramped to cleaning eyes etc. (no excavation)	m	15	
8	75mm Pipes laid in and including trenches not exceeding 1m deep	m	35	
9	110mm Pipes laid in and including trenches not exceeding 1m deep	m	35	
	Carried Forward			
	Bill No. 15 Plumbing and Drainage		R	

Brought Forward				R
10	160mm Pipes laid in and including trenches not exceeding 1m deep.	m	45	
11	160mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep.	m	40	
<u>Extra over Class 34 uPVC Pipes for fittings:</u>				
12	75mm Bend	No	20	
13	110mm Bend	No	26	
14	110 x 75mm Junction	No	10	
15	160mm Bend	No	8	
16	160 x 110mm Junction	No	4	
<u>Catchpits, manholes, etc. (gratings and covers elsewhere):</u>				
17	Brick catchpit size 450 x 450mm not exceeding 1.0m deep internally	No	3	
18	Precast concrete manhole rings (SABS 1294) size internally 1000mm diameter not exceeding 1000mm deep internally including all excavations, backfilling, etc. internally 1000mm diameter	No	2	
<u>Cast iron covers, frames, etc.:</u>				
19	450 x 450mm (Heavy duty) cast iron stormwater grating and frame	No	3	
20	1130mm diameter precast heavy duty cover slab and lid	No	2	
<u>SOIL DRAINAGE</u>				
<u>Heavy duty uPVC class 34 pipes in class C bedding:</u>				
21	110mm Pipes vertically or ramped to cleaning eyes etc. (no excavation)	m	11	
22	110mm Pipes laid in and including trenches not exceeding 1m deep	m	38	
Carried Forward				R
Bill No. 15 Plumbing and Drainage				

Brought Forward			R
23	160mm Pipes laid in and including trenches not exceeding 1m deep	m	43
24	160mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	57
<u>Extra over class 34 uPVC pipes for fittings:</u>			
25	110mm Bend	No	22
26	160mm Bend	No	13
27	160mm Access junction	No	2
28	160 x 110mm Access junction	No	11
29	160mm Rodding Eye including surround slab	No	5
<u>Manholes, etc:</u>			
30	Excavate for and construct gulley comprising of 110mm Upvc gulley trap with 190mm diameter Upvc hopperhead with pvc grating, all set in mass concrete and not exceeding 500mm deep. The top of the gulley to be raised 75mm above surrounding ground level and internally dished down to hopper head with smoothed render and external of raised sides to be finished neatly.	No	6
31	Precast concrete manhole rings (SABS 1294) size internally 1000mm diameter not exceeding 1000mm deep internally including all excavations, backfilling, etc. internally 1000mm diameter	No	4
<u>Gratings, covers, etc:</u>			
32	1130mm diameter precast heavy duty cover slab and lid	No	4
<u>Alterations to existing manholes etc.:</u>			
33	Break through precast concrete situated on side of manhole for and connect up new 110mm uPVC pipe (elsewhere measured) and make good all round including new channels, benching, etc.	No	1
Carried Forward			R
Bill No. 15 Plumbing and Drainage			

Brought Forward			R
34	Break through precast concrete situated on side of manhole for and connect up new 160mm uPVC pipe (elsewhere measured) and make good all round including new channels, benching, etc.	No	1
<u>SANITARY FITTINGS</u>			
<u>WC</u>			
35	"Vaal Sanitaryware" or other equally approved vitreous china Parktown 90 degree outlet top inlet or back inlet flushvalve (code: 431600) and double flap plastic seat	No	7
36	"Grohe" or other equally approved 25mm diameter chrome flush valve for wc (code: 37609) for concealed installation with push button actuator, 1.2 - 5.0 bar flow pressure, flow rate adjustment, including 25mm supply pipe, stop valve, flush pipe and 300mm extension pipe to wc.	No	7
<u>Wash Hand Basin</u>			
37	"Vaal Sanitaryware" or other equally approved Iceberg Vitreous china drop-in vanity basin colour White (Code: 7034), size 420 x 420mm fitted into opening in granite vanity top (vanity top elsewhere measured) and sealed with silicone sealant where basin rim meets vanity top.	No	10
38	"Idral" or other equally approved water save self-closing push button pillar tap, non-hold cold water supply only, chrome finish, (code: 08212) with flow time of 6 - 9 secs.	No	10
39	GH angle valve bau 15x15mm	No	10
40	303-32 Basin waste	No	10
41	ISM Gio bottle trap CP 32mm	No	10
<u>WC (Paraplegic)</u>			
42	"Whyte House" or other equally approved paraplegic WC (code: 025134) with back inlet flush valve & double flap plastic seat.	No	1
Carried Forward			R
Bill No. 15 Plumbing and Drainage			

Brought Forward			R
43	"Grohe" or other equally approved 25mm diameter chrome flush valve for wc (code: 37609) for concealed installation with push button actuator, 1.2 - 5.0 bar flow pressure, flow rate adjustment, including 25mm supply pipe, stop valve, flush pipe and 300mm extension pipe to wc.	No	1
<u>Wash Hand Basin (Paraplegic)</u>			
44	"Vaal Sanitaryware" or other equally approved hibiscus vitreous china lavatory basin colour white (code: 7023), size 510 x 405mm with one tap hole including integrated overflow and chain stay hole bolted to wall with two x 10mm bolts (code: 8448Z0) and including universal half pedestal with hanger springs (code: 715221) and sealed with silicone sealant where basin meets wall.	No	1
45	"Cobra" or other equally approved medical elbow action pillar tap with high waist, chrome finish, manufactured in accordance with SANS 226 Type 2.	No	1
46	GH angle valve 15x10mm	No	2
47	303-32 Basin waste	No	1
48	ISM Gio bottle trap CP 32mm	No	1
<u>Urinals</u>			
49	"Vaal Sanitaryware" or other equally approved 565 x 275 x 310mm sweetpea white vitreous china wall mounted back inlet urinal (code: 705127) including 38mm chromium plated domical grating (code: 8787z0) and chromium plated back inlet spreader (code: 7054z2), flush valve, flush pipe and fittings (by others), fixed on and including two hanger brackets (code: 8127z0).	No	4
50	"Walcro" or other equally approved 15mm Ø BSP built-in sleeve, DZR brass urinal flush valve (code: 155UW) with internal flow control, strainer and no-hold feature for single bowl urinal.	No	4
Carried Forward			R
Bill No. 15 Plumbing and Drainage			

Brought Forward			R
<u>Kitchen Sink - Single Bowl</u>			
51	"Franke" or other equally approved Projectline Model PLN611 stainless steel single end bowl inset sink (Code: 821047), overall size 800 x 460mm wide with one 340 x 370 x 150mm deep bowl, fitted onto cupboard (cupboard elsewhere measured) including clear silicon, 38mm waste fitting and PVC trap (trap elsewhere measured).	No	2
52	"Cobra Watertech Noka" or other equally approved 15mm chrome plated deck mounted sink mixer with overarm swivel outlet and adjustable flanges (code: NA-970), manufactured in accordance with SANS 226:2004 Type 1 (BS 5412).	No	2
53	GH angle valve bau 15x10mm	No	4
54	32 x 40mm Butyl rubber "P" or "S" trap jointed to waste outlet fitting and uPVC pipe including clamps	No	2
<u>Showers</u>			
55	"Cobra Watertech Noka" or other equally approved 15mm chrome plated wall mounted under wall mixer (code: NA-956), manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).	No	8
56	"Franke Aquajet- Slimline Aqua 750" or other equally approved stainless steel shower head (code: 359747) with plastic jet face with calcification system and pluggable connection spigot.	No	8
57	"Franke" or other equally approved stainless steel shower tray Model BS401 900 x 900 x 75mm deep, 75 mm deep pressed shower tray. Shower tray manufactured from grade 304 (18/10) stainless steel with a 1.2 mm gauge. The shower tray has curved corners and a patterned base, with 40mm aprons all round and 38mm 'BSP' integrated waste outlet. Shower tray built-in fall to 38 mm BSP grated waste outlet in corner position (waste fitting elsewhere measured).	No	8
Carried Forward			R
Bill No. 15 Plumbing and Drainage			

Brought Forward			R
58	"Cobra Watertech" or other equally approved 40mm rough brass shower p trap (code: 373SQ) with shallow seal and chrome plated square grating.	No	8
<u>Floor Drains</u>			
59	"Seaqual" or other equally approved floor drain size 250x250 x 75mm deep with grating to suite and with 100mm diameter outlet and set in position and installed as per manufacturer's instructions	No	3
<u>TAPS, VALVES, ETC.</u>			
Taps, valves, etc. jointed to copper pipes are to include brass connectors, adaptors etc. Installation and fixings to be as per manufacturers specifications and SANS 1808-9 compliant.			
60	15mm Ball-O- stop valves	No	20
61	22mm Ball-O- stop valves	No	14
<u>SANITARY PLUMBING</u>			
<u>uPVC pipes cast into concrete slabs, fixed to soffit and walls, or chased into walls, chased into concrete, etc. in accordance with manufacturers specifications</u>			
62	50mm Pipes	m	41
63	110mm Pipes	m	62
<u>Extra over uPVC pipes for:</u>			
64	50mm Bend	No	42
65	50mm Access bend	No	15
66	50mm Junction	No	17
67	50mm Access junction	No	8
68	110mm Bend	No	16
Carried Forward			R
Bill No. 15 Plumbing and Drainage			

Brought Forward				R
69	110mm Access bend	No	8	
70	110mm Access junction	No	6	
71	110mm Double access junction	No	2	
72	110 x 50mm Access junction	No	6	
73	110mm Pan connector	No	8	
74	110mm Two way vent valve	No	4	
75	110mm Coupling	No	5	
<u>DOMESTIC WATER SUPPLIES</u>				
<u>Geberit Mepla or other equally approved pipes fixed to soffit and walls, or chased into walls, chased into concrete, etc. in accordance with manufacturers specifications:</u>				
All piping embedded into concrete or chased into walls to be twice wrapped in strong approved building paper.				
Rates for surface mounted copper pipe shall be deemed to include all fixtures and fittings for pipes fixed to walls, in chases, and in ceilings.				
76	15mm Pipes	m	226	
77	22mm Pipes	m	242	
<u>Extra over Mepla pipes for fittings:</u>				
78	15mm Fittings	No	190	
79	22mm Fittings	No	229	
<u>Extra over Mepla pipes for brass compression fittings:</u>				
80	15mm Flexible service pipe 300mm girth	No	26	
81	15mm Wallplate elbow	No	26	
82	22mm Wallplate elbow	No	20	
Carried Forward				R
Bill No. 15 Plumbing and Drainage				

Brought Forward			R
<u>PIPE INSULATION</u>			
<u>Thermaflex snap on sectional pipe insulation, neatly cut around pipe as required</u>			
83	Insulation to 15mm diameter piping and couplings including working around fittings	m	108
84	Insulation to 22mm diameter piping and couplings including working around fittings	m	76
<u>ELECTRIC WATER HEATERS</u>			
<u>Water heaters and accessories:</u>			
85	10 Litre "Hydroboil" or other equally approved over sink electric water heater	No	2
86	'Kwikot' or other equally approved 200 litre high pressure (EF100-2D) hot water heater and hoist and fix vertical on walls including fixing to wall mounting brackets, draincock, vacuum breaker, multi pressure control, isolator, expansion relief valve, safety valve, water overflow pipe including fittings, necessary fixing accessories and two connections for 22mm copper pipes including connectors (electrical connection by Electrician).	No	2
<u>Heat pump</u>			
87	Supply and install 1 x Airco model ARSJ-1100/S-540V or other equally approved air to water heat pumps each capable of 250 litre per hour flow, having a 10KW water heating capacity with a 2.45KW power consumption	No	1
<u>TESTING</u>			
88	Allow for testing the whole of the Stormwater drainage, Sewer drainage, Plumbing, Water and Fire supplies and all fittings to the satisfaction of the Architect, Engineer and Local Authorities. All defective work is to be taken out and replaced at the contractor's expense and the whole re-tested until acceptable	Item	
<u>AS-BUILT DRAWINGS</u>			
89	Provide a full set of as-built drawings on completion of the installation	Item	
Carried Forward			R
Bill No. 15 Plumbing and Drainage			

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Item No		Quantity	Rate	Amount
BILL NO. 17				
<u>MECHANICAL WORK</u>				
<u>PREAMBLES</u>				
The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
<u>PRIME COST AMOUNT</u>				
<u>Budgetary Allowance</u>				
Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances				
1	Provide the sum of R55,000.00 (Fifty-Five Thousand Rand) for servicing of existing air-conditioning units	Item		
2	Provide the sum of R80,000.00 (Eighty Thousand Rand) for air-conditioning split units	Item		
3	Provide the sum of R52,000.00 (Fifty Two Thousand Rand) for air extraction and ventilation	Item		
			R	
Carried to Summary				
Bill No. 17 Mechanical Work				

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Amount

PREAMBLES

The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item

PAINT SPECIFICATIONS

Painting, etc.

All painting shall be done in accordance with SANS specifications unless otherwise described

COLOURS

Colours, etc.

Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091

ON INTERNAL FLOATED PLASTER SURFACES

One coat alkali resistant primer and two coats Plascon or other equally approved 'Offshore GR-Y03' paint for interior use

1	On columns and beams	m2	17
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One coat alkali resistant primer and two coats Plascon or other equally approved 'Cement Wash Y1-E2-2' paint for interior use

2	On walls	m2	1,180
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ON EXTERNAL FLOATED PLASTER SURFACES

Carried Forward

R

Bill No. 19
Paintwork

	Brought Forward			R	
	<u>One coat alkali resistant primer and two coats Plascon or other equally approved 'Nautilus B6-D1-1' paint for exterior use</u>				
3	On walls	m2	51		
	<u>One coat alkali resistant primer and two coats Plascon or other equally approved 'Aluminium Snow AL-B01' paint for exterior use</u>				
4	On walls	m2	51		
	<u>ON MASONRY SURFACES</u>				
	<u>One coat alkali resistant primer and two coats Plascon or other equally approved 'Pristine Blue B4-A1-1' roof paint for exterior use, including stopping blow holes</u>				
5	On fibre cement fascia and barge boards	m2	76		
6	On existing and new face brickwork	m2	801		
	<u>ON WOOD SURFACES</u>				
	<u>One coat primer and two coats premium quality polyurethane enamel paint (Colour Dark Oak)</u>				
7	On doors	m2	33		
8	On door frames, etc.	m2	4		
	<u>ON METAL SURFACES</u>				
	<u>One coat primer and two coats premium quality polyurethane enamel paint (Colour Dark Oak)</u>				
9	On door frames, etc.	m2	7		
	<u>ON CONCRETE FLOORS</u>				
	<u>Prepare floors including all necessary grinding and sanding, prime with 'Flowshield Primer' or other equally approved and apply 6-8mm thick self levelling 'Flowshield' epoxy to</u>				
10	Petrol Store	m2	12		
11	Tool Store	m2	103		
	Carried to Summary			R	
	Bill No. 19				
	Paintwork				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 20</u>			
	<u>EXTERNAL WORKS</u>			
	<u>PREAMBLES</u>			
	The description given in the various items below are not necessary full and complete and reference must be made to the 'Standard Preambles to All Trades' , 'Supplementary Preambles' and 'Supplementary Specifications' to this contract for the full requirement of each schedule item.			
	<u>ROADWORK, PARKING AREAS AND PAVING</u>			
	<u>Alterations</u>			
	<u>Carefully saw-cut and break up and remove damaged premix layer including reducing ground by 150mm deep</u>			
1	Existing parking area	m2	145	
	<u>Site clearance</u>			
2	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m2	46	
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Over site between buildings, retaining walls, etc. to reduce levels and dispose in prescribed stock piles on site	m3	145	
	<u>Extra over excavations in earth for excavation in</u>			
4	Soft rock	m3	1	
5	Hard rock	m3	1	
	<u>Extra over bulk excavation in earth for breaking up and removing</u>			
6	Reinforced concrete	m3	4	
	Carried Forward		R	
	Bill No. 20 External Works			

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	106
<u>Earth filling supplied by the contractor under parking areas, roadways, etc.</u>			
8	Sub-base course of G7 material, stabilised with 4% cement in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density	m3	29
9	Sub-base course of G5 material, stabilised with 4% cement in accordance with SABS 1200 DM, compacted to 98% Mod AASHTO density	m3	29
10	Sub-base course of G2 material compacted to 98% Mod AASHTO density	m3	29
<u>Compaction of surfaces</u>			
11	Compaction of ground surfaces under pavings etc., including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	145
<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>			
12	50 x 300mm High kerbs (SANS 927 fig 3) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc.	m	75
<u>Pesticides:</u>			
13	Spray base course with an approved brand insecticide in accordance with manufacturers instructions.	m2	145
<u>Paving, etc.:</u>			
14	Continuously graded asphalt surface 40mm thick using bitumen 40/50 pen	m2	145
15	Prime coat using MSP 1 emulsion tack coat applied at a rate of 0.5l/m ²	m2	145
<u>FENCING AND GATES</u>			
Carried Forward			R
Bill No. 20 External Works			

Brought Forward			R	
<u>'ClearVu' or other equally approved</u>				
16	Single gate size 1000 x 1800mm formed of hot dipped galvanised outer frame and mullions as necessary and fill in with 'Clearvu Mesh' installed complete as per manufacturer's instructions	No	1	
17	Double gate size 4500 x 2100mm formed of hot dipped galvanised outer frame and mullions as necessary and fill in with 'Clearvu Mesh' installed complete as per manufacturer's instructions	No	1	
18	Double gate size 4500 x 2100mm formed of hot dipped galvanised outer frame and mullions as necessary and fill in with 'Clearvu Mesh' installed complete as per manufacturer's instructions with and including, gate motor, etc.	No	1	
Carried to Summary			R	
Bill No. 20 External Works				

Item No	Quantity	Rate	Amount
<u>BILL NO. 21</u>			
<u>PROVISIONAL SUMS</u>			
<u>PREAMBLES</u>			
<p>The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General</u>			
<p>Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances</p> <p>Prime cost amounts and provisional sums are net.</p> <p>The Contractor must note that attendance includes the provision of hoisting and access facilities for a sub-contractor.</p> <p>The Contractors profit and attendance shall include for the storage of such equipment and materials.</p> <p>The Contractor must ensure that the capacities of his hoisting equipment is sufficient to deal with the masses and the quantities of the items hoisted.</p> <p>Provide the necessary personnel to operate such hoisting and access equipment.</p> <p>Prime cost amounts include for delivery to site of all articles concerned Provisional sums are for material and equipment supplied and installed complete by firms of specialists</p>			
Carried Forward		R	
<p>Bill No. 21 Provisional Sums</p>			

Brought Forward		R	
<u>SIGNAGE</u>			
1	Provide the sum of R 150,000.00 (One Hundred and Fifty Thousand Rand) for signage	Item	150,000.00
2	Profit	Item	
3	Attendance	Item	
<u>LANDSCAPING</u>			
4	Provide the sum of R 50,000.00 (Fifty Thousand Rand) for landscaping	Item	50,000.00
5	Profit	Item	
6	Attendance	Item	
Carried to Summary		R	
Bill No. 21 Provisional Sums			

**Alteration and Additions Works
Northdene Perway**

<u>FINAL SUMMARY</u>				
Bill No		Page No		Amount
1	Preliminaries	44		
2	Alterations	50		
3	Earthworks	53		
4	Concrete, Formwork and Reinforcement	58		
5	Precast Concrete	59		
6	Masonry	62		
7	Waterproofing	64		
8	Roof Coverings	69		
9	Carpentry and Joinery	73		
10	Ceilings, Partitions and Access Flooring	74		
11	Ironmongery	78		
12	Metalwork	81		
13	Plastering	83		
14	Tiling	85		
15	Plumbing and Drainage	95		
16	Electrical Work	96		
17	Mechanical Work	97		
18	Glazing	98		
19	Paintwork	100		
20	External Works	103		
21	Provisional Sums	105		
	Sub - Total		R	
	Add: Contingency (10%)		R	
	Carried Forward		R	

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