
Refurbishment of Lapa

for

Pretoria National Botanical Gardens



Caqs Quantity Surveyors

Provisional Bills of Quantities

October 2024

Section No.

Cover

Provisional Bills of Quantities



<u>Item No</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>Section No.2</u> <u>BILL No. 1</u> <u>PRELIMINARIES</u> <u>BUILDING AGREEMENT AND PRELIMINARIES</u> The JBCC Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described The JBCC Principal Building Agreement contract data form an integral part of this agreement The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described The contractor is deemed to have referred to the above mentioned documents for the full intent and meaning of each clause The clauses in the above mentioned documents are hereinafter referred to by clause number and heading only Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable"				
	<u>Carried to Collection</u>				
	<u>Section No. 2</u> <u>Bill No. 1</u> <u>Preliminaries</u> <u>Provisional Bills of Quantities</u>				

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Carried to Collection

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Item No		Unit	Quantity	Rate	Amount
	<u>PRICING OF PRELIMINARIES</u> Should the contractor select Option A in the contract data for the adjustment of preliminaries, the amounts entered against the relevant items in these preliminaries are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T) <u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u> <u>Interpretation (A1-A7)</u> 1 Clause 1.0 - Definitions and interpretation Pricing of bills of quantities The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement. Value Added Tax (VAT) is to be separately stated on the summary page of these bills of quantities Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained <u>Carried to Collection</u> Section No. 2 Bill No. 1 Preliminaries Provisional Bills of Quantities				
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<u>Item No</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	F:..... V:..... T:.....		Item		
1	Clause 3.0 - Offer and acceptance				
	F:..... V:..... T:.....		Item		
2	Clause 4.0 - Cession and assignment				
	F:..... V:..... T:.....		Item		
3	Clause 5.0 - Documents				
	Value Added Tax				
	Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT)				
	Priced document as specification				
	Clause 5.4 is deemed to be deleted				
	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				
	Electronic issue of drawings				
	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 [5.6]				
	F:..... V:..... T:.....		Item		
4	Clause 6.0 - Employer's agents				
	Carried to Collection			R	
	Section No. 2				
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Item No		Unit	Quantity	Rate	Amount
1	2. <u>Quantity surveyor</u> 2.1 Duties [6.2] : The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works 2.2 Contract instructions [6.2; 17.1] : 2.2.1 No contract instructions delegated to the quantity surveyor F:..... V:..... T:..... 3. <u>Civil and structural engineer</u> 3.1 Duties [6.2] : The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the works 3.2 Contract instructions [6.2; 17.1] : 3.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement 3.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works 3.2.3 The site [13.0]		Item		
	Carried to Collection				R
	<u>Section No. 2</u> <u>Bill No. 1</u> <u>Preliminaries</u> <u>Provisional Bills of Quantities</u>				

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Item No		Unit	Quantity	Rate	Amount
	4.2.10 Rectification of defects [21.2]				
	4.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion , a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion				
1	4.2.12 Expenditure of budgetary allowances, prime cost amounts and provisional sums				
	F:..... V:..... T:.....		Item		
	5. <u>Electrical engineer</u>				
	5.1 Duties [6.2] :				
	The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the works and, where appointed by the employer for quantity surveying services in respect of the electrical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions				
	5.2 Contract instructions [6.2; 17.1] :				
	5.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement				
	5.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works				
	<u>Carried to Collection</u>			R	
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	<u>Provisional Bills of Quantities</u>				

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<u>Item No</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
6.1	Duties [6.2] :				
	The wet services engineer is responsible for all aspects of wet services engineering design and quality inspection of the works				
6.2	Contract instructions [6.2; 17.1] :				
6.2.1	Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement				
6.2.2	Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works				
6.2.3	Compliance with the law , regulations and bylaws [2.1]				
6.2.4	Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works				
6.2.5	Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]				
6.2.6	Removal or re-execution of work				
6.2.7	Removal or substitution of any materials and goods				
6.2.8	Protection of the works				
6.2.9	Making good physical loss and repairing damage to the works [23.2.2]				
6.2.10	Rectification of defects [21.2]				
	<u>Carried to Collection</u>				
	<u>Section No. 2</u>				
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	<u>Preliminaries</u>				
	<u>Provisional Bills of Quantities</u>				
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<u>Item No</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	6.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion , a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion				
1	6.2.12 Expenditure of budgetary allowances, prime cost amounts and provisional sums		Item		
	7. <u>Fire consultant</u>				
	7.1 Duties [6.2] :				
	The fire consultant is responsible for all aspects of rational fire design and quality inspection of the works				
	7.2 Contract instructions [6.2; 17.1] :				
	7.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement				
	7.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works				
	7.2.3 Compliance with the law , regulations and bylaws [2.1]				
	7.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works				
	7.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]				
	7.2.6 Removal or re-execution of work				
	<u>Carried to Collection</u>				
	<u>Section No. 2</u>				
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	<u>Preliminaries</u>				
	<u>Provisional Bills of Quantities</u>				
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<u>Item No</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	7.2.7 Removal or substitution of any materials and goods				
	7.2.8 Protection of the works				
	7.2.9 Making good physical loss and repairing damage to the works [23.2.2]				
	7.2.10 Rectification of defects [21.2]				
	7.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion , a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion				
1	7.2.12 Expenditure of budgetary allowances, prime cost amounts and provisional sums		Item		
	8. <u>Electronic engineer</u>				
	8.1.1 Duties [6.2] :				
	The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the works and, where appointed by the employer for quantity surveying services in respect of the electrical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions				
	8.2 Contract instructions [6.2; 17.1] :				
	8.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement				
	<u>Carried to Collection</u>			R	
	<u>Section No. 2</u>				
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	<u>Provisional Bills of Quantities</u>				

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Item No		Unit	Quantity	Rate	Amount
	<u>Execution (A12 - A17)</u>				
1	Clause 12.0 - Obligations of the parties Office accommodation 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] Notice board The contractor shall erect in a position approved by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the principal agent listing the names and logos of the employer, the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18] Statutory and other notices 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 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 F:..... V:..... T:.....				
	<u>Carried to Collection</u>				
	<u>Section No. 2</u> <u>Bill No. 1</u> <u>Preliminaries</u> <u>Provisional Bills of Quantities</u>				
			Item		
				R	



<u>Item No</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Clause 13.0 - Setting out F:..... V:..... T:.....		Item		
2	Clause 14.0 - Nominated subcontractors F:..... V:..... T:.....		Item		
3	Clause 15.0 - Selected subcontractors F:..... V:..... T:.....		Item		
4	Clause 16.0 - Direct contractors Attendance on direct contractors In respect of direct contractors the contractor shall: - Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials - Allow the use of personnel welfare facilities, where provided - 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 - 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		
<u>Carried to Collection</u>					R
<u>Section No. 2</u> <u>Bill No. 1</u> <u>Preliminaries</u> <u>Provisional Bills of Quantities</u>					

Item No		Unit	Quantity	Rate	Amount
1	Clause 17.0 - Contract instructions Site 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		
2	Clause 18.0 - Interim completion		N/A		
3	Clause 19.0 - Practical completion F:..... V:..... T:.....		Item		
4	Clause 20.0 - Completion in sections F:..... V:..... T:.....		Item		
5	Clause 21.0 - Defects liability period and final completion F:..... V:..... T:.....		Item		
6	Clause 22.0 - Latent defects liability period F:..... V:..... T:.....		Item		
<u>Carried to Collection</u>					R
<u>Section No. 2</u> <u>Bill No. 1</u> <u>Preliminaries</u> <u>Provisional Bills of Quantities</u>					



Item No		Unit	Quantity	Rate	Amount
1	Clause 23.0 - Revision of the date for practical completion Substitution of materials and goods The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8; 23.1 & 2] F:..... V:..... T:.....		Item		
2	Clause 24.0 - Penalty for late or non-completion F:..... V:..... T:..... Payment (A25 - A27)		Item		
3	Clause 25.0 - Payment Prices submitted 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 F:..... V:..... T:.....		Item		
4	Clause 26.0 - Adjustment of the contract value and final account				
	<u>Carried to Collection</u> <u>Section No. 2</u> <u>Bill No. 1</u> <u>Preliminaries</u> <u>Provisional Bills of Quantities</u>			R	



<u>Item No</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
Fluctuations in costs All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [26.9.5] Tenant installation/user requirements delayed There is a possibility that certain works related to tenant installation/user requirements may have to be delayed and may consequently not be executed prior to practical completion 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 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 Cost of claims 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				
<u>Carried to Collection</u>				R
<u>Section No. 2</u> <u>Bill No. 1</u> <u>Preliminaries</u> <u>Provisional Bills of Quantities</u>				

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Item No		Unit	Quantity	Rate	Amount
	<u>SECTION B: GENERAL PRELIMINARIES</u>				
	<u>Definitions and interpretation (B1)</u>				
1	Clause 1.1 - Definitions F:..... V:..... T:.....		Item		
2	Clause 1.2 - Interpretation F:..... V:..... T:.....		Item		
	<u>Documents (B2)</u>				
3	Clause 2.1 - Checking of documents F:..... V:..... T:.....		Item		
4	Clause 2.2 - Provisional bills of quantities Multiple procurement These bills of quantities are in multiple procurement format All trades are provisionally measured and the subsequent trades are budgetary allowances and/or provisional sums F:..... V:..... T:.....		Item		
5	Clause 2.3 - Availability of construction information F:..... V:..... T:.....		Item		
	<u>Carried to Collection</u>			R	
	<u>Section No. 2</u>				
	<u>Bill No. 1</u>				
	<u>Preliminaries</u>				
	<u>Provisional Bills of Quantities</u>				



Item No		Unit	Quantity	Rate	Amount
1	Clause 2.4 - Ordering of materials and goods F:..... V:..... T:..... <u>Previous work and adjoining properties (B3)</u>		Item		
2	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....		Item		
3	Clause 3.2 - Previous work - defects F:..... V:..... T:.....		Item		
4	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:..... <u>The site (B4)</u>		Item		
5	Clause 4.1 - Handover of site in stages F:..... V:..... T:.....		Item		
6	Clause 4.2 - Enclosure of the works The construction site will be fenced off to the satisfaction of the Principal Agent with full access control		Item		
7	F:..... V:..... T:.....		Item		
<u>Carried to Collection</u>					R
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Item No		Unit	Quantity	Rate	Amount
1	Clause 4.3 - Geotechnical and other investigations F:..... V:..... T:..... No Geotechnical investigations were carried out		Item		
2	Clause 4.4 - Encroachments F:..... V:..... T:.....		Item		
3	Clause 4.5 - Existing premises occupied F:..... V:..... T:.....		Item		
4	Clause 4.6 - Services - known F:..... V:..... T:.....		Item		
	<u>Management of contract (B5)</u>				
5	Clause 5.1 - Management of the works F:..... V:..... T:.....		Item		
6	Clause 5.2 - Progress meetings F:..... V:..... T:.....		Item		
7	Clause 5.3 - Technical meetings F:..... V:..... T:.....		Item		
	<u>Carried to Collection</u>			R	
	<u>Section No. 2</u> <u>Bill No. 1</u> <u>Preliminaries</u> <u>Provisional Bills of Quantities</u>				



Item No		Unit	Quantity	Rate	Amount
	<u>Samples, shop drawings and manufacturer's instructions (B6)</u>				
1	Clause 6.1 - Samples of materials F:..... V:..... T:.....		Item		
2	Clause 6.2 - Workmanship samples F:..... V:..... T:.....		Item		
3	Clause 6.3 - Shop drawings F:..... V:..... T:.....		Item		
4	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....		Item		
	<u>Deposits and fees (B7)</u>				
5	Clause 7.1 - Deposits and fees F:..... V:..... T:.....		Item		
	<u>Temporary services (B8)</u>				
6	Clause 8.1 - Water F:..... V:..... T:.....		Item		
	<u>Carried to Collection</u>			R	
	<u>Section No. 2</u>				
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Item No		Unit	Quantity	Rate	Amount
1	Clause 8.2 - Electricity F:..... V:..... T:.....		Item		
2	Clause 8.3 - Ablution and welfare facilities F:..... V:..... T:.....		Item		
3	Clause 8.4 - Communication facilities F:..... V:..... T:.....		Item		
	<u>Prime cost amounts (B9)</u>				
4	Clause 9.1 - Responsibility for prime cost amounts F:..... V:..... T:.....		Item		
	<u>Attendance on subcontractors (B10)</u>				
5	Clause 10.1 - General attendance F:..... V:..... T:.....		Item		
6	Clause 10.2 - Special attendance F:..... V:..... T:.....		Item		
	<u>Carried to Collection</u>			R	
	<u>Section No. 2</u>				
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<u>Item No</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	Disturbance All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever F:..... V:..... T:.....		Item		
1	Clause 11.6 - Environmental disturbance Controlling all forms of pollution The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the site during the construction period due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc The contractor is to ensure that all roads which border the site and are 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 Environmental management plan The employer has prepared an environmental management plan (EMP) (refer to Annexure for a copy of the relevant plan). The contractor shall price opposite this item for compliance with all the requirements of such EMP F:..... V:..... T:.....		Item		
	<u>Carried to Collection</u> Section No. 2 Bill No. 1 Preliminaries Provisional Bills of Quantities			R	



Item No		Unit	Quantity	Rate	Amount
1	Clause 11.7 - Works cleaning and clearing F:..... V:..... T:.....		Item		
2	Clause 11.8 - Vermin F:..... V:..... T:.....		Item		
3	Clause 11.9 - Overhand work F:..... V:..... T:.....		Item		
4	Clause 11.10 - Tenant installations F:..... V:..... T:.....		Item		
5	Clause 11.11 - Advertising F:..... V:..... T:.....		Item		
<u>SECTION C: SPECIFIC PRELIMINARIES</u>					
6	Identification cards Site entry is subject to authorisations and or permits as required by the Employer from time to time. All contractual workmen of the principal contractor as well as N/S Subcontractors shall adhere to this. F:..... V:..... T:.....		Item		
<u>Carried to Collection</u>					R
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<u>Item No</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Warranties for materials 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 entity supplying the materials and/or executing the work and shall deliver same to the principal agent on final completion of the contract 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 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 F:..... V:..... T:.....		Item		
2	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 to Collection					R
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Item No		Unit	Quantity	Rate	Amount
1	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 contract value does not exceed the budget F:..... V:..... T:.....		Item		
2	Overloading The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense F:..... V:..... T:.....		Item		
3	Propping of floors below The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor F:..... V:..... T:.....		Item		
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<u>Item No</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Testing of flat roof waterproofing for water tightness Flat roof waterproof areas shall be flooded and kept "ponded" for at least forty eight (48) hours as a test to ensure the water tightness of the waterproofing and before any further construction work is carried out above the waterproofing F:..... V:..... T:.....		Item		
2	Health and safety Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. 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]				
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<u>Item No</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	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. Cooperate 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 F:..... V:..... T:.....				
1	Green star building certification		Item		
	F:..... V:.....T:.....		Item		
2	Broad based black economic empowerment (BBBEE) Tenders submitted will be evaluated taking into account their empowerment rating The employer will be monitoring the broad based black economic empowerment (BBBEE) status of the contractor throughout the execution of the works The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating F:..... V:.....T:.....		Item		
<u>Carried to Collection</u>					R
<u>Section No. 2</u> <u>Bill No. 1</u> <u>Preliminaries</u> <u>Provisional Bills of Quantities</u>					



Item No		Unit	Quantity	Rate	Amount
1	Advertising rights The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. The position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting his obligations under this agreement F:..... V:..... T:.....		Item		
2	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		
3	Media releases All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer The contractor together with his subcontractors shall not, without the prior written consent of the employer, cause any statement or advertisement connected with this project to be printed, screened or aired by the media F:..... V:..... T:.....		Item		
Carried to Collection					R
Section No. 2 Bill No. 1 Preliminaries Provisional Bills of Quantities					

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<u>Section No. 2</u>					
<u>Bill No. 1</u>					
<u>Preliminaries</u>					
<u>COLLECTION</u>					
			<u>Page No</u>		<u>Amount</u>
	<u>Brought Forward</u>			R	
Total Brought Forward from Page No.		20			
Total Brought Forward from Page No.		21			
Total Brought Forward from Page No.		22			
Total Brought Forward from Page No.		23			
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Total Brought Forward from Page No.		35			
Total Brought Forward from Page No.		36			
	<u>Carried Forward</u>			R	
<u>Section No. 2</u>					
<u>Bill No. 1</u>					
<u>Preliminaries</u>					
<u>Provisional Bills of Quantities</u>					

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Item No		Unit	Quantity	Rate	Amount
	Doors, fanlights, windows, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately 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 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) <u>MASONRY</u> <u>Brickwork in NFP bricks in class II mortar in building up openings or adjusting opening size</u>				
1	One brick walls	m2	6		
	<u>Sundries</u>				
2	Cutting toothing and bonding new brickwork to existing	m2	2		
	<u>Carried to Collection</u>				
	<u>Section No. 3</u> <u>Bill No. 1</u> <u>Alterations</u> <u>Provisional Bills of Quantities</u>				
				R	

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Item No		Unit	Quantity	Rate	Amount
	<u>Compaction of ground surfaces</u>				
1	Compaction of ground surface under buildings including shaping and scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	1		
2	Compaction of ground surface to bottom of trenches including shaping and scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	1		
	<u>Keeping excavations free of water</u>				
3	Keeping excavations free of water		Item		
	<u>FILLING ETC</u>				
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density in 150mm layers</u>				
4	Backfilling to trenches, holes, etc	m3	0.4		
	<u>Filling G5 material supplied by the contractor and compacted to 95% Mod AASTHO density in 150mm layers</u>				
5	Under floors, steps, pavings, etc	m3	1		
	<u>WEED KILLERS, INSECTICIDES, ETC</u>				
	<u>Protection against termites</u>				
6	Poisoning surface of ground or filling under floors, steps, etc. including raking out 75mm deep V-shaped channels against the walls, etc. treating with poison solution, backfilling and ramming	m2	1		
7	To bottoms and sides of trenches etc	m2	5		
	<u>Carried to Collection</u>				
	<u>Section No. 3</u>				
	<u>Bill No. 2</u>				
	<u>Earthworks</u>				
	<u>Provisional Bills of Quantities</u>				
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Item No		Unit	Quantity	Rate	Amount
	<u>Bill No.5</u> <u>MASONRY</u> For preambles see "Model Preambles for Trades" ----- <u>SUPPLEMENTARY PREAMBLES</u> <u>Sizes in descriptions</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Hollow walls etc</u> Descriptions of hollow walls shall be deemed to include wall ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole <u>Reinforced brick lintels</u> Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous <u>Face bricks</u> Bricks shall be ordered timeously to obtain uniformity in size and colour <u>Pointing</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	Carried to Collection			R	
	<u>Section No. 3</u> <u>Bill No. 5</u> <u>Masonry</u> <u>Provisional Bills of Quantities</u>				

Item No		Unit	Quantity	Rate	Amount

	<u>FOUNDATIONS (PROVISIONAL)</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>				
1	One brick walls	m2	3		
	<u>SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
2	Half brick walls	m2	15		
3	Half brick lining	m2	3		
4	Half brick lining in beam filling	m2	0.5		
5	One brick walls	m2	44		
6	One brick walls in beamfilling	m2	6		
	<u>BRICKWORK SUNDRIES</u>				
	<u>"Fabcon" prestressed precast concrete lintels or planks and building into brick walls over openings:</u>				
7	110 x 70mm Lintels in lengths not exceeding 3m	m	52		
	<u>Joint forming material in movement joints</u>				
8	12mm Bitumen impregnated fibre board built in vertically between brick skins and timber columns	m	33		
	<u>Brickwork reinforcement</u>				
9	75mm Wide reinforcement built in horizontally	m	55		
10	150mm Wide reinforcement built in horizontally	m	148		
	<u>Carried to Collection</u>				
	<u>Section No. 3</u>				
	<u>Bill No. 5</u>				
	<u>Masonry</u>				
	<u>Provisional Bills of Quantities</u>				
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Item No	Unit	Quantity	Rate	Amount
Bill No.8				
<u>CEILING PARTITIONS AND ACCESS FLOORING</u>				
For preambles see "Model Preambles for Trades"				

<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Fixing</u>				
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				
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere				
<u>Ceilings</u>				
Unless otherwise described ceilings shall be deemed to be horizontal				
<u>Bulkheads</u>				
Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features				
<u>Carried to Collection</u>				
<u>Section No. 3</u>				
<u>Bill No. 8</u>				
<u>Ceilings Partitions and Access Flooring</u>				
<u>Provisional Bills of Quantities</u>				
			R	

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Item No		Unit	Quantity	Rate	Amount
	<u>Bill No.9</u> <u>IRONMONGERY</u> For preambles see "Model Preambles for Trades" ----- <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>Prime Cost Amounts</u> Prime cost amounts and provisional sums are net. Prime cost amounts shall include for delivery to site of all articles concerned Provisional sums are for material and equipment supplied and installed complete by firms of specialists ----- <u>Ironmongery</u>				
1	Provide the prime cost amount of R5,000.00 Five Thousand for supplying ironmongery		Item		5,000.00
	<u>Carried to Collection</u>			R	
	<u>Section No. 3</u> <u>Bill No. 9</u> <u>Ironmongery</u> <u>Provisional Bills of Quantities</u>				

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<u>Item No</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>Aluminium sections</u> Tenders shall make provision for the approval of all aluminium sections prior to manufacturing by the architect Windows shall be manufactured from "Caselite 38" or other approved sections doors and shopfronts shall be manufactured from "Shopfront" or other approved sections <u>Shop detail drawings</u> The Contractor shall be responsible for the preparation and written approval of all shop detail drawings prior to manufacturing <u>Scaffolding, special scaffolding etc</u> Tenderers shall make allowance for special scaffolding and or sherry pickers which is not provided by the Principal Contractor as part of his normal Preliminaries <u>Gaskets</u> All gaskets and wedges to be from a "Vinyl" type gasket as approved by "AAAMSA" All glazing to be the "Dry glazing" method <u>Ironmongery</u> The tenderer shall include all ironmongery to the approval of the Principal Agent for the windows. The supply of door closures, door lock set, concealed bolts and cabin hooks for the shop fronts shall be by others but fitted by the Aluminium supplier				
	<u>Carried to Collection</u>				R
	<u>Section No. 3</u> <u>Bill No. 10</u> <u>Metalwork</u> <u>Provisional Bills of Quantities</u>				

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Carried to Collection

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Item No		Unit	Quantity	Rate	Amount
	<u>1,6mm Thick single rebated frame for half brick wall complete with butt hinges and including setting up, building in, filling back of frame with cement mortar, etc</u>				
1	Frame for door 813 x 2032mm high with two 100mm steel hinges per leaf	No	2		
	<u>1,6mm Thick single rebated frame for one brick wall complete with butt hinges and including setting up, building in, filling back of frame with cement mortar, etc</u>				
2	Frame for door 813 x 2032mm high with two 100mm steel hinges per leaf	No	2		
	<u>ALUMINIUM POWDER COATED CASEMENT WINDOWS</u>				
	<u>Powder coated casement 30.5 windows complete with subframes, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u>				
3	600 x 1200 Aluminium Top Hung Window PTT612	No	1		
4	900 x 1200 Aluminium Top Hung Window PTT912	No	1		
5	1500 x 1200 Aluminium Top Hung Window PTT1512	No	3		
6	900 x 1800 Aluminium Top Hung Window PTT918	No	3		
	<u>"Wispeco" or similar approved natural anodised aluminium doors, sidelights and fanlights glazed with 6mm toughened laminated safety glass and plugged to brickwork or concrete and sealed watertight all round</u>				
7	Single door size 900 x 2720mm high fixed top light over	No	1		
8	Double door 1613 x 2100mm high with 700mm high fixed top light over	No	1		
	<u>Carried to Collection</u>				
	<u>Section No. 3</u>				
	<u>Bill No. 10</u>				
	<u>Metalwork</u>				
	<u>Provisional Bills of Quantities</u>				
				R	

Carried to Collection

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C790 Refurbishment of Lapa Pretoria
Pretoria Botanical Gardens

Item No		Unit	Quantity	Rate	Amount
1	On narrow widths	m2	5		
Carried to Collection					R
Section No. 3					
Bill No. 11					
Plastering					
Provisional Bills of Quantities					

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Item No		Unit	Quantity	Rate	Amount
	<u>Heavy duty (Class 34) PVC-U sewer and drain pipes</u>				
1	Soil drainage comprising approximately 15m total length on plan of 110mm diameter twin wall PVC sewer pipes with flexible couplings in ground, 1 gulleys(elsewhere) with 110mm diameter outlets jointed to drain and hopper heads with waste inlets and fitted with standard pattern concrete tops with outlet jointed to drain		Item		
2	Connect to existing 110mm diameter sewer line not exceeding 1,0m deep with and including all fittings	No	1		
	<u>uPVC gulleys</u>				
3	110mm Dished gulley exceeding 500mm and not exceeding 750mm deep with and including concrete gulley surround and gulley head with grating	No	1		
	<u>SANITARY PLUMBING</u>				
	<u>PVC-U soil and vent pipes</u>				
4	Sanitary plumbing comprising waste, ventilation and anti-syphonage piping for a single storey building servicing 3 hand wash basins, 3 W.C. suites, 1 single bowl sink		Item		
	<u>WATER SUPPLIES</u>				
	<u>Class 12 HDPE pipes</u>				
5	Water supply in ground comprising approximately 10m total length on plan of maximum 30mm diameter "HDPE" class 12 piping in trenches not exceeding 750mm deep and with and including one 15mm diameter brass garden hose taps with galvanised stand pipes		Item		
6	Connect to existing water supply not exceeding 30mm diameter with and including all fittings	No	1		
	<u>Carried to Collection</u>				R
	<u>Section No. 3</u>				
	<u>Bill No. 13</u>				
	<u>Plumbing and Drainage</u>				
	<u>Provisional Bills of Quantities</u>				

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Item No		Unit	Quantity	Rate	Amount
1	<u>One coat "Plascon Oil Wood Primer (UC2)" and two coats "Plascon Velvagio" or similar approved polyurethane on:</u> Doors <u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u> <u>ON FLOATED PLASTER</u> <u>One coat universal undercoat and two coats "Plascon Polvin Emulsion" or similar approved paint on</u>	m2	37		
2	Walls	m2	79		
Carried to Collection					R
<u>Section No. 3</u> <u>Bill No. 15</u> <u>Paintwork</u> <u>Provisional Bills of Quantities</u>					

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<u>Item No</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 1</u>				
<u>PROVISIONAL SUMS</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>General</u>				
Work for which budgetary allowances are provided will be measured and valued in accordance with the relevant ?building agreement? ?building contract? and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances Prime Cost (PC) Amounts means an amount of money provided in the bills of quantities for material and goods to be obtained from a supplier nominated by the architect and to be fixed by the contractor The prime cost amount shall be omitted from the contract sum and the amounts actually paid by the contractor in respect of the purchase of the nett quantity of such items including delivery to site shall be added to the contract sumThe contractor has to allow for labour, profit and waste in his rate over and above the PC amount				
<u>Profit</u>				
Where stated, the contractor may allow for profit if required				
<u>General attendance on nominated/selected subcontractors</u>				
The item "attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors the contractor's duties as described in clause 12.2 of the JBCC N/S Subcontract Agreement				
<u>Carried to Collection</u>			R	
<u>Section No. 4</u>				
<u>Bill No. 1</u>				
<u>Provisional Sums</u>				
<u>Provisional Bills of Quantities</u>				

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Item No		Unit	Quantity	Rate	Amount
1	Allow for attendance if required -----			%	
	<u>HVAC INSTALLATION</u>				
2	Provide the sum of R40,000.00 (Forty Thousand Rand) for HVAC installation by an approved sub-contractor		Item		40,000.00
3	Allow for profit if required			%	
4	Allow for attendance if required -----			%	
	<u>KITCHEN CUPBOARDS</u>				
5	Provide the sum of R15,000.00 (Fifteen Thousand Rand) for design ,supply and installation of kitchen cupboards by an approved sub-contractor		Item		15,000.00
	Allow for profit, if required			%	
	Allow for attendance, if required -----			%	
	<u>STEEL BALUSTRADES</u>				
6	Provide the sum of R6,000.00 (Six Thousand Rand) for supply and installation of stainless steel balustrades by an approved sub-contractor		Item		6,000.00
7	Allow for profit if required			%	
8	Allow for attendance if required			%	
	<u>Carried to Collection</u>			R	
	<u>Section No. 4</u>				
	<u>Bill No. 1</u>				
	<u>Provisional Sums</u>				
	<u>Provisional Bills of Quantities</u>				

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Carried to Form of Tender