

CONTRACT NUMBER: Q9347		CONSTRUCTION OF VARIOUS MAINTENANCE PROJECTS AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN / STRUCTURAL STEELWORK			Bill 1
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 1</u> <u>PRELIMINARIES AND GENERAL</u> <u>MEANING OF TERMS "TENDER / TENDERER"</u> Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder" <u>PRELIMINARIES</u> The JBCC Preliminaries, May 2018 edition for use with the JBCC Principal Building Agreement Edition 6.2 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable" <u>PRICING OF PRELIMINARIES</u> Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related the spaces provided under each item Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities <u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u> <u>DEFINITIONS AND INTERPRETATION</u> 1 A1.0 DEFINITIONS AND INTERPRETATION Clause 1.0 Clause 1.1 Definition of "Corrupt Practice" is added: "CORRUPT PRACTICE" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution Clause 1.1 Definition of "Fraudulent Practice" is added: "FRAUDULENT PRACTICE" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non- competitive levels and to deprive the tenderer of the benefits of free and open competition Clause 1.1 Definition of "Interest" is amended by replacing it with "INTEREST" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999)				
BILL No. 1	Bill No. 1 PRELIMINARIES AND GENERAL carried to collection				

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2		Clause 1.1 Definition of "Principal Agent" is amended by replacing it with the following: "PRINCIPAL AGENT" means the person or entity appointed by the employer and named in the schedule. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by a representative of the employer as named in the schedule Clause 1.1 Definition of "Security" is amended by replacing it with the following: "SECURITY" means the form of security provided by the employer or contractor, as stated in the schedule, from which the contractor or employer may recover expense or loss				
	A10.0	INSURANCES Clause 10.0 Clause 10.0 is amended by the addition of the following clauses: 10.11 Damage to the Works (a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary (b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works (c) The employer shall carry the risk of damage to or destruct the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.12 (d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 27.0 hereof 10.12 Injury to Persons or loss of or damage to Properties (a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or negligence of any person for whose actions the employer is legally liable				
BILL No. 1	BILL No. 1 PRELIMINARIES AND GENERAL carried to collection					

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	(b)	The contractor shall be liable for and hereby indemnifies the employer against any liability , loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site , whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or negligence of any person for whose actions the employer is legally liable				
	(c)	The contractor shall, upon receiving a contract instruction from the principal agent , cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor				
	(d)	The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion				
	(e)	Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed				
	(f)	The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works				
	10.13	High risk insurance In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:				
	10.13.1	Damage to the works The contractor shall, from the commencement date of the works until the date of the certificate of practical completion bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary				
BILL No. 1	Bill No. 1 PRELIMINARIES AND GENERAL carried to collection					

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	When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs 10.13.2 Injury to persons or loss of or damage to property The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of, or caused by a catastrophic ground movement as mentioned above The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract 10.13.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so					
3	A11.0 SECURITIES Clause 11.0 Clauses 11.1 - 11.10 are amended by replacing them with the following 11.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) 11.1.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms 11.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 27.0 provided that the employer complies with the provisions of 27.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor					
BILL No. 1	Bill No. 1 PRELIMINARIES AND GENERAL carried to collection					

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11.2	In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 11.3, 11.4, 11.5, 14.6, or 11.7 as stated in the schedule . Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date . Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date , the security in terms of 11.7 shall be deemed to have been selected				
11.3	Where security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:				
11.3.1	The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty- one (21) calendar days from commencement date				
11.3.2	Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three percent (3%) of the contract value (excluding VAT), and refund the balance to the contractor				
11.3.3	Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor				
11.3.4	On the date of payment of the amount in the final payment certificate , the employer shall refund the remainder of the cash deposit to the contractor				
11.3.5	The employer shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor				
11.3.6	The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party				
11.4	Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:				
11.4.1	The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date				
	Clause 11.4.1 is deemed to be amended by the addition of the following sentence; No interest will be paid on such amounts withheld				
BILL No. 1	BILL No. 1 PRELIMINARIES AND GENERAL carried to collection				

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	11.4.2	The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender				
	11.4.3	The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring				
	11.4.4	Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall issue a written demand in terms of the variable construction guarantee				
	11.5	Where security as a fixed construction guarantee of five percent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:				
	11.5.1	The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT)				
	11.5.2	The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion				
	11.5.3	The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring				
	11.5.4	The payment reduction of the value certified in a payment certificate shall be in terms of clause 25.				
	11.5.5	Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both				
	11.6	Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:				
	11.6.1	The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within twenty- one (21) calendar days from commencement date				
	11.6.2	Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor				
	11.6.3	The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 25				
	11.6.4	Where the employer has a right of recovery against the contractor in terms of 27.0, the employer may issue a written notice in terms of 27.4 or may recover from the payment reduction or may do both				
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	11.7	Where security as a payment reduction of ten percent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:				
	11.7.1	The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 25				
	11.7.2	The employer shall be entitled to recover expense and loss from the payment reduction in terms of 27.0 provided that the employer complies with the provisions of 27.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the contractor				
	11.8	Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement				
		<u>EXECUTION</u>				
4		A12.0 OBLIGATIONS OF THE PARTIES				
		Clause 12.0				
		Clause 12.1.1 is amended by replacing it with:				
		No clause				
		Clause 12.2.4 is amended by the addition of the following clause:				
	12.2.4	An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (10) calendar days of commencement date				
		<u>PAYMENT</u>				
5		A25.0 PAYMENT				
		Clause 25.0				
		Notwithstanding this or any other clause, materials and goods stored off site shall not be included in the amount authorized for payment.				
		The first sentence of sub-clause 25.10 is deemed to be deleted and replaced with the following:				
		The employer shall pay the contractor the amount certified within thirty (30) calendar days of the date.				
		Fixed:_____Value related:_____Time related:_____				
		<u>SUSPENSION AND TERMINATION</u>				
6		A28.0 SUSPENSION BY CONTRACTOR				
		Clause 28.0				
		Fixed:_____Value related:_____Time related:_____				
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7	A29.0 TERMINATION Clause 29.0 Add the following sub-clauses 29.1.4 to 29.1.6 under 29.1 to read as follows: 29.1.4 The contractor's refusal or neglect to comply strictly with any of the conditions of contract. 29.1.5 The contractor's estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force with the Republic of South Africa. 29.1.6 The contractor, in the judgment of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract. Replace clause 29.3 with the following: the employer may give notice of cancellation should the contractor remain in default for ten (10) working days after the date of of issue of such a notice of default Clause 29.25.4 Replace "Sixty (60)" with "one hundred and twenty (120)". Add the following sub-clauses 29.29 under 29 to read as follows: Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor, or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a stated date and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever. Fixed: _____ Value related: _____ Time related: _____					
BILL No. 1	Bill No. 1 PRELIMINARIES AND GENERAL carried to collection					

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	<u>SECTION B: JBCC PRELIMINARIES</u> This schedule contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule. Key cross reference clauses are italicised in [] brackets 12.1 PRE-TENDER INFORMATION 12.1.1 Provisional bills of quantities [2.2] The quantities are provisional YES/NO 12.1.2 Availability of construction documentation [2.3] <i>Construction documentation is complete</i> YES/NO 12.1.3 Interests of agents [2.4] Details: 12.1.4 Defined works area [3.1] Details: 12.1.5 Geotechnical investigation [3.2] Details: 12.1.6 Existing premises occupied [3.4] Details: 12.1.7 Previous work - dimensional accuracy [3.5] Details: 12.1.8 Previous work - defects [3.6] Details: 12.1.9 Services - known [3.7] Details: 12.1.10 Protection of trees [3.9] Details: 12.1.11 Inspection of adjoining properties [3.11] Details: 12.1.12 Enclosure of the works [6.2] Details:					
BILL No. 1	Bill No. 1 PRELIMINARIES AND GENERAL carried to collection					

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	12.1.13 Offices [6.4.3] Specific requirements: The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times 12.1.14 Main notice board [6.5] Specific requirements: The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as per Drawing, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering 12.1.15 Subcontractors' notice board [7.2] A notice board is required YES/NO Specific requirements: 12.1.16 Water [7,3] Option A (by contractor) YES/NO Option B (by employer - free of charge) YES/NO Option C (by employer - metered) YES/NO 12.1.17 Electricity [6.6] Option A (by contractor) YES/NO Option B (by employer - free of charge) YES/NO Option C (by employer - metered) YES/NO 12.1.18 Telecommunications [7.4] Option A (by contractor) YES/NO Option B (by employer - free of charge) YES/NO Option C (by employer - metered) YES/NO					
BILL No. 1	BILL No. 1 PRELIMINARIES AND GENERAL carried to collection					

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	12.1.19 Ablution facilities [7.5] Option A (by contractor) YES/NO Option B (by employer) YES/NO 12.1.20 Protection of existing/sectionally occupied works [11.2] Option A (by contractor) YES/NO 12.1.21 Special attendance [9.2] Subcontractor (1) details: Subcontractor (2) details: Subcontractor (3) details: Subcontractor (4) details: 12.1.22 Special attendance [11.1] Specific requirements: 12.1.23 Disturbance [11.1] Specific requirements: The contractor shall keep the site, structures, etc well-watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent 12.1.24 Environmental disturbance [11.6] Specific requirements: 12.2 POST-TENDER INFORMATION 12.1.19 Payment of preliminaries [7.5] Option A (prorated) YES/NO Option B (calculated) YES/NO 12.2.2 Adjustment of preliminaries [10.3] Option A (prorated) YES/NO Option B (calculated) YES/NO 12.2.3 Additional agreed preliminaries items Details:					
BILL No. 1	BILL No. 1 PRELIMINARIES AND GENERAL carried to collection					

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8	<u>SECTION C: SPECIFIC PRELIMINARIES</u> Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item C10.0 HIV/AIDS AWARENESS It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment					
BILL No. 1	Bill No. 1 PRELIMINARIES AND GENERAL carried to collection					

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	ALTERATIONS					
	<u>COLLECTION</u>					
	Total Brought Forward from Page No.		1			
			2			
			3			
			4			
			5			
			6			
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			8			
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			11			
			12			
BILL No. 1	Bill No. 1 PRELIMINARIES AND GENERAL carried to Summary					

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Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 2</u> <u>ALTERATIONS TO EXISTING BUILDING</u> Notes: 1. <u>Tenderers are advised to study the 'Construction specification PW371-A and B as amended (downloadable from Department of Public Works website, www.publicworks.gov.za) before pricing this bill</u> 2. <u>Unless otherwise stated all items in this Bill</u> <u>GENERAL NOTES</u> <u>For further preambles and full descriptions of items not fully described in this Bill, reference must be made to supplementary preambles and descriptions in the other Bills of this Section. Such supplementary preambles and descriptions shall apply equally</u> <u>GENERAL</u> <u>In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure stability</u> <u>Any water supply and other piping that may be encountered and which is found necessary to disconnect or cut shall, after such disconnection or cutting has been authorised by the Representative/Agent, be effectively stopped off</u> <u>EXISTING BUILDINGS</u> <u>The existing buildings will be in use and occupied during the progress of the contract and the Contractor will be required to carry out the works in such a manner as will least interfere with the occupants and with the minimum of disturbance</u> <u>SIZE PERTAINING TO EXISTING WORK</u> <u>The Contractor is advised to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the correctness of sizes of all new work. All sizes given in relation to existing work are approximate.</u> <u>MAKING GOOD DAMAGED WORK</u> <u>The Contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing</u> <u>FORMING NEW OPENINGS OR ALTERING OPENINGS IN EXISTING WALLS</u> <u>Descriptions of forming new openings or altering openings in existing walls shall be deemed to include breaking out for and forming new brick, in-situ concrete or prestressed concrete lintels, including all reinforcement, formwork, turning pieces, etc.</u> <u>BUILDING UP OPENINGS</u> <u>Descriptions of building up existing openings were given in number shall be deemed to include preparing existing surfaces all around, brickwork properly toothed and bonded to existing, wedging up and making good on both sides as described</u>				
BILL No. 2	Bill No. 2 Alterations carried to collection				

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ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1		Ticket Office Break wall make good and create a 900 x 2100 mm opening	NO.	2		
2		Garden Shed Offices Remove existing door carefully install new lintel. repair frame and door. Make good and refit door. <u>PAINTWORK</u> <u>Where plasterwork on walls, ceilings, etc. are required to be patched or made good, prices are to include for the appropriate priming coat and oneundercoat to receive paint finishing coats which are measured elsewhere</u> <u>The contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc. from damage during the progress of the work and provide all necessary materials for doing so.</u> <u>Tenderers are advised to visit the site before tendering and satisfy themselves as to the nature and extent of the works, means of access to the site and availability of working space. No claims will be entertained due to the tenderer having failed to com</u> <u>PROCEDURE OF WORK</u> <u>The Representative/Agent reserves the right to direct the order in which the contract will be executed, should circumstances necessitate such action.</u> <u>LOSS BY THEFT, FIRE OR OTHERWISE</u> <u>The risk of loss, theft, fire, storm, riot or otherwise of the buildings to be demolished and the materials therein shall rest entirely with the contractor immediately upon the handing over of the site.</u> <u>WATER AND OTHER PIPING</u> <u>Any water supply or other piping that may be met with and found necessary to disconnect or cut are to be effectually stopped off or grubbed up and removed and any new connections that may be necessaryand are to be made with proper fittings</u> <u>ELECTRICAL AND OTHER SERVICES</u> <u>Special care is to be exercised not to unnecessarily interfere with any electric light, bell, power, telephone or other wires and fittings that may be met with and due notice must be given to the Architect.</u> <u>The contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc. from damage during the progress of the work and all necessary materials for doing so</u> <u>OCCUPATION OF EXISTING BUILDINGS</u> <u>Tenderers are advised that the existing buildings will be in occupation during the building operations and due allowance must be made for the work being carried out in such a manner as will least interfere with the general routine of the occupants</u>	Item			
BILL No. 2	Bill No. 2 Alterations carried to collection					

CONTRACT NUMBER: Q9347		CONSTRUCTION OF VARIOUS MAINTENANCE PROJECTS AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN / STRUCTURAL STEELWORK				Bill 2
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>NOISE PREVENTION</u> The contractor shall take special care to minimise noisy operations during business hours. Such measures will include, inter alia, the use of silent compressors and strict control of workmen The contractor shall demolish the portions of existing structures or buildings with a minimum amount of damage to adjoining buildings, materials, paving, etc. Any damage caused is to be made good at his own expense with materials to match the existing. <u>ALTERATIONS TO OPENINGS</u> Where the Contractor is required to form openings, alter openings or brickup openings in existing walls all brickwork shall be made good at jambs including properly bonding to existing. Brickwork in bricking up openings shall be wedged and pinned up to <u>MAKING GOOD, ETC</u> Prices are to include for making good in all trades to existing work, where damaged or disturbed through alterations, with all necessary new materials to match existing and leave complete and perfect in every respect. <u>TEMPORARY BARRIERS, SCREENS, ETC</u> Temporary barriers, screens, etc including removal				
3		Allowance for all necessary temporary tarpaulins, barricades, screens, fencing, temporary waterproofing, dust proofing, etc required to isolate buildings, walkways, pavements or any sections under construction including any sections of new or existing buildings for the purposes of excluding users from the remainder of the building <u>REMOVAL OF EXISTING WORK</u> <u>REMOVAL FROM SITE</u> The term "remove" shall be deemed to mean removal from site by the Contractor to a registered dumping ground located by the Contractor <u>Removal of electrical sockets, plugs, switches, light fittings etc including making safe exposed electrical wiring</u>	Item			
4		Richard Crowe Hall Electrical switches, light fittings etc <u>Taking down and removing gutters, downpipes etc. and set aside and later refit in similar new position</u>	m ²	55,0		
5		Richard Crowe Repair and clean existing gutters	m	15,0		
BILL No. 2	Bill No. 2 Alterations carried to collection					

CONTRACT NUMBER: Q9347		CONSTRUCTION OF VARIOUS MAINTENANCE PROJECTS AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN / STRUCTURAL STEELWORK				Bill 2
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>Waterproofing, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, tile finishes, waterproofing etc</u>				
6	Richard Crowe Hall	External wall plaster	m ²	180,0		
7	Richard Crowe Hall	Waterproofing	m ²	62,0		
8	Tee Room	Waterproofing	m ²	110,0		
BILL No. 2 Bill No. 2 Alterations carried to collection						

CONTRACT NUMBER: Q9347		CONSTRUCTION OF VARIOUS MAINTENANCE PROJECTS AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN / STRUCTURAL STEELWORK				Bill 2
ITEM NO	PAYMENT REFERS TO		Page No.			AMOUNT
	ALTERATIONS <u>COLLECTION</u> Total Brought Forward from Page No.		1 2 3 4			
BILL No. 2	Bill No. 2 Alterations carried to Summary					

CONTRACT NUMBER: Q9347		CONSTRUCTION OF VARIOUS MAINTENANCE PROJECTS AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN / STRUCTURAL STEELWORK			Bill 3
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 3</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> The contractor is referred to the relevant Clause in the document Model Preambles for Trades as published by the Association of South African Quantity Surveyors (2017 edition) <u>SUPPLEMENTARY PREAMBLES</u> <u>FORMWORK</u> Ticket Office 1 Ramp m ² 2,0 <u>CONCRETE</u> Ticket Office 2 Ramp m ³ 0,5 <u>REINFORCEMENT</u> Ticket Office 3 Wire mesh Ref. 245 m ² 2,0				
BILL No. 3	Bill No. 3 CONCRETE, FORMWORK AND, REINFORCEMENT carried to collection				

CONTRACT NUMBER: Q9347 CONSTRUCTION OF VARIOUS MAINTENANCE PROJECTS AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN / STRUCTURAL STEELWORK					Bill 4
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 4</u> <u>WATERPROOFING</u> Notes: 1. <u>Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</u> <u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u> <u>Prime with one coat bitumen primer and one layer 4mm fully bonded waterproof membrane comprising two bitumen layers reinforced with woven spunbonded polyester fabric and coated with polyethelene film for heat bonding, laid with 100mm side and 150mm end laps</u> <u>Roofs</u> Richard Crowe Hall 1 On flat roofs m ² 50,0 2 On parapet walls m ² 12,0 Tearoom 3 On flat roofs m ² 70,0 4 On parapet walls m ² 40,0 <u>PROTECTIVE ROOFING PAINT</u> <u>Two coats bituminous aluminium paint</u> Richard Crowe Hall 5 On flat roofs m ² 50,0 6 On parapet walls m ² 12,0 Tearoom 7 On flat roofs m ² 70,0 8 On parapet walls m ² 40,0				
BILL No. 4	Bill No. 4 WATERPROOFING carried to Summary				

CONTRACT NUMBER: Q9347 CONSTRUCTION OF VARIOUS MAINTENANCE PROJECTS AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN / STRUCTURAL STEELWORK					Bill 4
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
	<u>Repair damp course by using injectable Damp Proof Course (DPC) to treat rising damp. All to specialist specification and details.</u>				
	<u>Walls</u>				
	Richard Crowe Hall				
9	Internal walls	m ²	180,0		
10	External walls	m ²	180,0		
11	Allow for patching of all cracks using cement and sand mortar	Item	180,0		
12	Allow for painting of the repair	Item	180,0		
	Tearoom				
13	Internal walls	m ²	20,0		
14	Internal walls	m ²	20,0		
15	Allow for patching of all cracks using cement and sand mortar	m ²	120,0		
16	Allow for painting of the repair	m ²	120,0		
BILL No. 4	Bill No. 4 WATERPROOFING carried to Summary				

CONTRACT NUMBER: Q9347		CONSTRUCTION OF VARIOUS MAINTENANCE PROJECTS AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN / STRUCTURAL STEELWORK			Bill 5
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	<u>BILL NO 5</u> <u>ROOF COVERINGS ETC</u> Notes: 1. <u>Tenderers are advised to study the 'Construction specification PW371-A and B as amended (downloadable from Department of Public Works website, www.publicworks.gov.za) before pricing this bill 5. Unless otherwise stated all items in this Bill</u>				
	<u>SUPPLEMENTARY PREAMBLES</u> <u>Straight cutting</u> <u>Descriptions of all roof coverings are deemed to include for all straight cutting</u> <u>PROFILED METAL SHEETING AND ACCESSORIES</u> <u>Where roof coverings are fixed on top of rigid board insulation to purlins etc, descriptions of roof coverings shall include therefore:</u> <u>ROOF AND WALL INSULATION - NON ROOF SLAB AREAS</u> <u>THATCH, ETC</u> Richard Crowe Hall Provide and fix thatched roof overhang on west elevation wall to match existing	m	12,0		
BILL No. 5	Bill No. 5 CARPENTRY & JOINERY carried to Collection				

CONTRACT NUMBER: Q9347		CONSTRUCTION OF VARIOUS MAINTENANCE PROJECTS AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN / STRUCTURAL STEELWORK			Bill 6
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO 6</u> <u>CARPENTRY & JOINERY</u> Notes: 1. <u>Tenderers are advised to study the 'Construction specification PW371-A and B as amended (downloadable from Department of Public Works website, www.publicworks.gov.za) before pricing this bill 6. Unless otherwise stated all items in this Bill</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Joinery Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</u> <u>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</u> <u>Fixing Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</u> <u>TIMBER DOORS, WINDOWS, ETC</u> <u>Doors</u> Ticket Office 1 SABS approved hardwood external solid core door: door size 813mm x 2032mm x 40mm. alarmed panic bar. minimum 3 no. stainless steel ball bearing butt hinges (subject to leaf weight and design configuration) <u>Louvres</u> Vida Café Entrance 2 1.5m high Eva-last bamboo composite cladding wood grain finish screen wall	No.	1		
		m ²	14		
BILL No. 6	Bill No. 6 CARPENTRY & JOINERY carried to Collection				

CONTRACT NUMBER: Q9347		CONSTRUCTION OF VARIOUS MAINTENANCE PROJECTS AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN / STRUCTURAL STEELWORK			Bill 7
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 7</u> <u>IRONMONGERY</u> Notes: 1. <u>Tenderers are advised to study the 'Construction specification PW371-A and B as amended (downloadable from Department of Public Works website, www.publicworks.gov.za) before pricing this bill 7. Unless otherwise stated all items in this Bill</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Finishes to ironmongery</u> <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 AS Anodised silver AB Anodised bronze AG</u> <u>LOCKS</u> <u>UNION' or other approved</u> Ticket Office 1 Client approved stainless steel lock set furniture <u>HANDLES</u> <u>UNION' or other equal and approved</u> 2 Union' or similar approved door handles				
BILL No. 7	Bill No. 7 IRONMONGERY carried to collection				R0,00

CONTRACT NUMBER: Q9347		CONSTRUCTION OF VARIOUS MAINTENANCE PROJECTS AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN / STRUCTURAL STEELWORK			Bill 8
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 8</u> <u>METALWORK</u> Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section <u>SUPPLEMENTARY PREAMBLES</u> Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described <u>STEELWORK</u> <u>Ladders</u> Adminstration Building 1 Cat ladder 1 Folding ladder <u>WINDOWS, DOORS, CURTAIN WALLING, SHOPFRONTS, ETC</u> <u>Door frames</u> Ticket Office 2 Steel frame (double rebated 1.6mm pressed metal) <u>Louvres</u> Vidacafe Entrance 3 1500 x 85 x 85mm Galvanized steel columns to Engineer's recommendations				
BILL No. 8	Bill No. 8 METALWORK carried to Summary				

CONTRACT NUMBER: Q9347		CONSTRUCTION OF VARIOUS MAINTENANCE PROJECTS AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN / STRUCTURAL STEELWORK			Bill 9
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	BILL NO. 9				
	ELECTRICAL WORKS				
	ELECTRICAL INSTALLATIONS				
	Richard Crowe Hall Supply, install and connect the electrical connection as specified:				
	Lighting Installation Supply and install the following luminaires including connection plug tops and all sundry installation materials as may be required in accordance with the electrical Specification and approved lighting schedule. Type HB				
1	Die-cast aluminium body, polycarbonate diffuser 90° reflector, including LED driver and cable. Class II, IP 65 and black in colour. 70W Highbay	No.	6		
	PVC conductors Supply and install PVC insulated copper wire conductors drawn into conduit in random lengths and various colours including bare earth wire				
2	2.5mm² GP house wire (Red & Black)	m	100		
3	2.5mm² bare copper wire	m	100		
	CONDUIT AND ACCESSORIES Galvanised steel conduit, including cutting,thread reaming, couplings, bushes, locknuts and fixing accessories installed in various lengths surface on roof trusses with raised saddles.				
4	20mm Diameter	m	40		
	LIGHT SWITCHES Supply and install, 4 x 2 galvanised boxes, includung the connections of the light switches complete with cover plate and accessories				
5	16A 1 way 1 lever	No.	R1,00		
BILL No. 9	Bill No. 9 ELECTRICAL WORKS carried to collection				

CONTRACT NUMBER: Q9347		CONSTRUCTION OF VARIOUS MAINTENANCE PROJECTS AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN			Bill 9
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6	<u>5A UNSWITCHED SOCKETS</u> Supply and install 5A sockets on trusses for light fittings including round boxes, complete with all accessories	No.	6		
BILL No. 9	Bill No. 9 ELECTRICAL WORKS carried to collection				

CONTRACT NUMBER: Q9347		CONSTRUCTION OF VARIOUS MAINTENANCE PROJECTS AT THE KIRSTENBOSCH NATIONAL BOTANICAL GARDEN, CAPE TOWN				Bill 9
ITEM NO	PAYMENT REFERS TO		Page No.			AMOUNT
	ELECTRICAL WORKS <u>COLLECTION</u> Total Brought Forward from Page No.		1 2			
BILL No. 9 Bill No. 9 ELECTRICAL WORKS carried to collection						

